

Draft for Consultation

Gas Transmission Information Disclosure Determination 2015

Consolidating all proposed amendments

Contents

- [Draft] Gas Transmission Information Disclosure Determination 2015
- [Draft] Gas Transmission Information Disclosure Determination 2015 – identifying proposed amendments as track changes

Date of publication: 22 October 2014

[Draft] Gas Transmission Information Disclosure Determination 2015

Consolidating all amendments as of [XX XXXX] 2015

Gas Transmission Information Disclosure Determination under Part 4 of the Commerce Act 1986. The reasons supporting the determination are outlined in the Information Disclosure for Electricity Distribution Businesses and Gas Pipeline Businesses: Final Reasons Paper, 1 October 2012 and the [Information Disclosure Amendments for Electricity Distribution Businesses and Gas Pipelines Businesses: Final Reasons Paper], [XX XXXX] 2015.

The Commerce Commission:

- Dr M Berry**
- S Begg**
- P Duignan**
- S Gale**

[XX XXXX] 2015

Date of Original Determination, Decision No. NZCC 24: 1 October 2012

Consolidating all amendments as of [XX XXXX] 2015

Determination version history		
Determination date	Decision number	Determination name
1 October 2012	NZCC 24	Gas Transmission Information Disclosure Determination ('principal determination').
[XX XXXX] 2015	[XXXX]	Gas Transmission Information Disclosure Determination Amendments (No. 1) 2015

GAS TRANSMISSION INFORMATION DISCLOSURE DETERMINATION 2015

PART 1	GENERAL PROVISIONS	6
1.1	TITLE	6
1.2	COMMENCEMENT DATE	6
1.3	APPLICATION	6
1.4	INTERPRETATION	6
PART 2	DISCLOSURE REQUIREMENTS	28
2.1	INFORMATION DISCLOSURE	28
2.2	APPLICABLE INPUT METHODOLOGIES	28
2.3	FINANCIAL INFORMATION FOR THE DISCLOSURE YEAR	29
2.4	PRICING AND RELATED INFORMATION	35
2.5	NON-FINANCIAL INFORMATION RELATING TO NETWORK ASSETS	42
2.6	ASSET MANAGEMENT PLANS AND FORECAST INFORMATION	45
2.7	EXPLANATORY NOTES TO INFORMATION RELATING TO THE DISCLOSURE YEAR	47
2.8	ASSURANCE REPORTS	49
2.9	CERTIFICATES	50
2.10	RETENTION AND CONTINUING DISCLOSURES	51
2.11	EXEMPTIONS	51
2.12	DISCLOSURE OF ERRORS IN PREVIOUSLY DISCLOSED INFORMATION	51
2.13	TRANSITIONAL PROVISIONS	53
ATTACHMENT A	ASSET MANAGEMENT PLANS	57
SCHEDULE 1	ANALYTICAL RATIOS	71

SCHEDULE 2	REPORT ON RETURN ON INVESTMENT	72
SCHEDULE 3	REPORT ON REGULATORY PROFIT	74
SCHEDULE 4	REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)	76
SCHEDULE 5A	REPORT ON REGULATORY TAX ALLOWANCE	79
SCHEDULE 5B	REPORT ON RELATED PARTY TRANSACTIONS	80
SCHEDULE 5C	REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE	81
SCHEDULE 5D	REPORT ON COST ALLOCATIONS	82
SCHEDULE 5E	REPORT ON ASSET ALLOCATIONS	84
SCHEDULE 5F	REPORT SUPPORTING COST ALLOCATIONS	86
SCHEDULE 5G	REPORT SUPPORTING ASSET ALLOCATIONS	87
SCHEDULE 6A	REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR	90
SCHEDULE 6B	REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR	93
SCHEDULE 7	COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE	94
SCHEDULE 8	REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES	95
SCHEDULE 9A	ASSET REGISTER	96
SCHEDULE 9B	ASSET AGE PROFILE	97
SCHEDULE 9C	REPORT ON PIPELINE DATA	98
SCHEDULE 9D	REPORT ON DEMAND	99
SCHEDULE 10A	REPORT ON NETWORK RELIABILITY AND INTERRUPTIONS	100
SCHEDULE 10B	REPORT ON NETWORK INTEGRITY	101
SCHEDULE 11A	REPORT ON FORECAST CAPITAL EXPENDITURE	102
SCHEDULE 11B	REPORT ON FORECAST OPERATIONAL EXPENDITURE	105
SCHEDULE 12A	REPORT ON ASSET CONDITION	106
SCHEDULE 12B	REPORT ON FORECAST DEMAND	107

SCHEDULE 13	REPORT ON ASSET MANAGEMENT MATURITY	108
SCHEDULE 14	MANDATORY EXPLANATORY NOTES	127
SCHEDULE 14A	MANDATORY EXPLANATORY NOTES ON FORECAST INFORMATION	133
SCHEDULE 15	VOLUNTARY EXPLANATORY NOTES	134
SCHEDULE 16	DEFINITIONS OF TERMS USED IN SCHEDULES 1 TO 15	135
SCHEDULE 17	CERTIFICATION FOR YEAR-BEGINNING DISCLOSURES	155
SCHEDULE 18	CERTIFICATION FOR DISCLOSURES AT THE BEGINNING OF A PRICING YEAR	156
SCHEDULE 19	CERTIFICATION FOR YEAR-END DISCLOSURES	157

Pursuant to Part 4 of the Commerce Act 1986, the Commerce Commission makes the following determination:

PART 1 GENERAL PROVISIONS

1.1 TITLE

1.1.1 This Gas Transmission Information Disclosure Determination consolidates all amendments to [XX XXXX] 2015.

1.2 COMMENCEMENT DATE

1.2.1 This determination comes into force on [XX XXXX] 2015.

1.3 APPLICATION

1.3.1 This determination applies to **gas transmission businesses** as suppliers of regulated goods and services under Part 4 of the **Act**.

1.4 INTERPRETATION

1.4.1 In this determination, unless the context otherwise requires-

- (1) Terms in bold type in the main body of this determination (including the attachment) have the meaning given to those terms in this section 1.4. Terms used in the schedules are defined in Schedule 16;
- (2) Terms used in this determination that are defined in the **Act** but not in this determination, have the same meanings as in the **Act**;
- (3) Terms used in this determination that are defined in the **IM determination** but not in this determination have the same meanings as in the **IM determination**;
- (4) A word which denotes the singular also denotes the plural and vice versa;
- (5) An obligation to do something is deemed to include an obligation to cause that thing to be done;
- (6) Financial items must be measured and disclosed in accordance with **GAAP** or the **IM determination** unless otherwise required in this determination;
- (7) Non-financial items must be measured and disclosed in accordance with standard industry practice unless otherwise required in this determination.

1.4.2 If there is any inconsistency between the main body of this determination (including the attachments) and any schedule to this determination, the main body of this determination prevails.

1.4.3 In this determination, the words or phrases in bold type bear the following meanings:

A

Act	means the Commerce Act 1986
Allocated works under construction	means, for the components of the works under construction roll-forward, the works under construction values after the application of clause 2.1.1 of the IM determination
Allocation methodology type	has the meaning given in the IM determination
Allocator	means the measure used to allocate operating costs or regulated service asset values that are not directly attributable as given in clause 2.1.3 or clause 2.1.5 of the IM determination
AMP	means asset management plan
AMP planning period	has the meaning specified in subclause 3.4 of Attachment A to this determination
AMP update	has the meaning specified in clause 2.6.4 of this determination
Asset Disposals	means- (a) in relation to the unallocated RAB , the sum of unallocated opening RAB values less regulatory depreciation of disposed assets, as determined in accordance with input methodologies applicable to that asset in the IM determination ; (b) in relation to the RAB , the value (as determined in accordance with paragraph (a)) which was allocated to gas transmission services in accordance with clause 2.1.1 of the IM determination
Asset disposals to a regulated supplier	means asset disposals disposed of to a regulated supplier
Asset disposals to a related	means asset disposals disposed of to a related

party	party
Asset management plan	has the meaning specified in clause 2.6.1 of this determination
Asset relocations	in relation to expenditure, means expenditure on assets where the primary driver is the need to relocate assets due to third party requests, such as for the purpose of allowing road widening or similar needs. This expenditure category includes expenditure on assets relating to the undergrounding of previously aboveground assets at the request of a third party
Asset replacement and renewal	<p>means-</p> <p>(a) in relation to capital expenditure, expenditure on assets</p> <p>(b) In relation to operational expenditure, operational expenditure</p> <p>where the primary driver is the need to maintain network asset integrity so as to maintain current security and/or quality of supply standards and includes expenditure to replace or renew assets incurred as a result of-</p> <ul style="list-style-type: none"> • the progressive physical deterioration of the condition of network assets or their immediate surrounds; • the obsolescence of network assets; • preventative replacement programmes, consistent with asset life-cycle management policies; or • the need to ensure the ongoing physical security of the network assets
Assets commissioned	<p>means-</p> <p>(a) in relation to the unallocated RAB or unallocated works under construction, the sum of value of commissioned assets as determined in accordance with clause 2.2.11 of the IM determination;</p> <p>(b) in relation to the RAB or allocated works under construction, the value of the assets</p>

- (as determined in accordance with paragraph (a)) which is allocated to the **gas transmission services** in accordance with clause 2.1.1 of the **IM determination**;
- (c) in relation to forecast information, a forecast of the value of the assets (as determined in accordance with paragraph (b)) for a future **disclosure year**

Audited disclosure information means information disclosed under any of clauses 2.3.1, 2.3.2 and 2.12.2 of this determination and the explanatory notes disclosed in boxes 1 to 12 and 17 of Schedule 14 under clause 2.7

B

C

Capital contributions has the meaning given in the **IM determination**

Capital expenditure means-

- (a) in relation to the **unallocated works under construction**, costs-
 - (i) incurred in the acquisition or development of an asset during the **disclosure year** that is, or is intended to be, **commissioned**; and
 - (ii) that are included or are intended to be included in the value of **assets commissioned** relating to the **unallocated RAB**;
- (b) in relation to the Report on **related party transactions**, costs-
 - (i) incurred in the acquisition or development of an asset during the **disclosure year** that is, or is intended to be, **commissioned**; and
 - (ii) that are included or are intended to be included in the value of **assets commissioned** relating to the **RAB**;

and

(iii) that are as a result of **related party transactions**;

(c) in all other instances, costs-

(i) incurred or forecast to be incurred in the acquisition or development of an asset during the **disclosure year** that is, or is intended to be, **commissioned**; and

(ii) that are included or are intended to be included in the value of **assets commissioned** relating to the **RAB**

Commencement date	means the date specified in clause 1.2.1 of this determination
Commission	means the Commerce Commission
Commissioned	has the meaning given in the IM determination
Connection point	means a welded connection
Constant prices	means, in relation to the prospective disclosures made under clauses 2.6.1, 2.6.3, and 2.6.5, prices expressed in New Zealand dollars as at the mid-point of the current year . Constant price expenditure forecasts are forecasts based on constant price assumptions
Consumer	means a person that consumes or acquires gas transmission services
Consumer connection	in relation to expenditure, means expenditure on assets where the primary driver is the establishment of a new customer connection point or alterations to an existing customer connection point . This expenditure category includes expenditure on assets relating to- (a) connection assets and/or parts of the network for which the expenditure is recoverable in total, or in part, by a contribution from the customer requesting the new or altered connection point ; and

- (b) both gas **intake points** and **offtake points** of connection

Contract

means a contract for the supply of goods or services (or both) whether or not the contract, or any part of the contract, is in writing and, for the avoidance of doubt, includes-

- (a) a contract under which goods or services (or both) are being supplied, although some or all of the terms and conditions in relation to the supply of those goods or services have not been settled; and
- (b) any operating agreement, side letter, or documentation that influences, adjusts or amends the terms and conditions of the contract

Contracting services

means the following services, when provided under a **contract** between the **GTB** and a **related party**-

- (a) construction and maintenance
- (b) **network** management

connection and disconnection services

Cost of financing

means the cost of financing incurred by a **GTB** and accumulated during the construction phase of a project that creates a new **network** asset, determined in accordance with clause 2.2.11(2) of the **IM determination** and allocated to the **gas transmission services** in accordance with clause 2.1.1 of the **IM determination**

CPP

has the meaning given in the **IM determination**

Current year or CY

means-

- (a) in relation to the historic disclosures made under clause 2.3.1, the **disclosure year** of the report
- (b) in relation to the prospective disclosures made under clauses 2.6.1, 2.6.3, and 2.6.5, the **disclosure year** in which the report is prepared

CY, CY-X or CY+X	means <ul style="list-style-type: none">(a) the current year; or(b) where a '-' precedes 'X', the Xth year preceding the current year; or(c) where a '+' precedes the 'X', the Xth year following the current year
D	
Directly attributable	has the meaning given in the IM determination
Director	has the meaning given in the IM determination
Disclosure year	means <ul style="list-style-type: none">(a) for Vector, the 12 month period ending on 30 June of the year the disclosure relates to, or if the term disclosure year is combined with a year, the 12 month period ended on 30 June of that year (<i>for Vector, disclosure year 2013 is the 12 months ended 30 June 2013</i>)(b) for MDL, the 12 month period ending on 31 December of the year to the disclosure relates to (<i>for MDL, disclosure year 2013 is the 12 months ended 31 December 2012</i>)
DPP regulatory period	means the regulatory period that generally applies to suppliers that are subject to DPP regulation
E	
EDB	has the meaning given in the input methodology relating to electricity distribution services determined pursuant to Subpart 3 of Part 4 of the Act , as in effect at any given time
Error	means- <ul style="list-style-type: none">(a) the base data was incorrect;(b) a factual statement was incorrect; or(c) the compilation of disclosed information

was inconsistent with the information disclosure requirements in place at the time of disclosure; and

is not where-

- (d) the correction is to the **initial RAB**;
- (e) an estimate has changed due to new information becoming available;
- (f) the change is a **lost and found assets adjustment**;

Expenditure on assets

means the expenditure relating to costs included or expected to be included in a closing **RAB** value and is equal to **capital expenditure** plus **value of capital contributions** less **value of vested assets** less **cost of financing**, where **capital expenditure** has meaning (b) or, in respect of **related party transactions**, meaning (c) as set out in this determination

F

Fault

means a physical condition that causes a device, component or **network** element to fail to perform in the required manner

G

GAAP

means generally accepted accounting practice in New Zealand, as defined in the **IM determination**

Gains / (losses) on asset disposals

means, in relation to-

- (a) **asset disposals to a related party**, nil;
- (b) **asset disposals to a regulated supplier**, nil;
- (c) asset disposals (other), the values determined in accordance with **GAAP** and clause 2.1.1 of the **IM determination**

Gas pipeline services

has the meaning given in s 55 of the **Act**

Gas transmission services

has the meaning given in the **IM determination**

GDB	has the meaning given in the input methodology relating to gas distribution services determined pursuant to Subpart 3 of Part 4 of the Act , as in effect at any given time
GPB	means gas pipeline business and includes GDBs and GTBs
GTB	has the meaning given in the IM determination
H	
I	
IM determination	means the input methodology relating to gas transmission services determined pursuant to Subpart 3 of Part 4 of the Act , as in effect at any given time
Independent auditor	means a person who- <ul style="list-style-type: none">(a) is qualified for appointment as auditor of a company under the Companies Act 1993 or, where the GPB is a public entity (as defined in s 4 of the Public Audit Act 2001), is the Auditor-General;(b) has no relationship with, or interest in, the GPB that is likely to involve a conflict of interest;(c) has not assisted with the compilation of the information or provided advice or opinions (other than in relation to audit reports) on the methodologies or processes used in compiling the information; and(d) is not associated with nor directed by any person who has provided any such assistance, advice, or opinion
Initial RAB	has the meaning set out in the IM determination
Intake point	means a point where gas is intended to enter the network

Interruption	means the cessation of supply of gas for a period of 1 minute or longer, other than by reason of disconnection in accordance with the terms of the contract under which the gas is supplied
L	
Legislative and regulatory	in relation to expenditure, means expenditure on assets where the primary driver is a new regulatory or legal requirement that results in the creation of, or modification to, network assets .
Line charge revenue	means revenue from prices
Lost and found assets adjustment	means- <ul style="list-style-type: none"> (a) in relation to the unallocated RAB, the value of found assets as determined in accordance with clause 2.2.12 of the IM determination, less the value of lost assets. The value of a lost asset is the unallocated opening RAB value of the asset less regulatory depreciation as determined in accordance with the IM determination; (b) in relation to the RAB, the value of the asset (as determined in accordance with paragraph (a)) which is allocated to gas transmission services in accordance with clause 2.1.1 of the IM determination (c) in relation to the regulatory tax asset base roll-forward, means the sum of regulatory tax asset values for found assets less the regulatory tax asset values of lost assets. The definition of ‘found assets’ and ‘lost assets’ are outlined in the IM determination
M	
Main-line valve	means any valves and ancillary devices in a

dedicated **station**, installed for purpose of stopping the flow of gas in a pipeline or lateral. This does not include instrumentation valves or valves installed in any other **station** type

Mark-up

means the percentage margin charged on the directly attributable cost incurred by the **related party** in providing a good or service which is included in the price of the good or service

MDL

means Maui Development Limited

N

Network

has the meaning given in the **IM determination**

Nominal New Zealand dollars

in relation to an expenditure or revenue forecast, means the New Zealand dollar prices expected to apply in the year of the transaction

Non-network assets

means assets related to the provision of **gas pipeline services** but that are not a **network asset**, and include-

- (a) information and technology systems;
- (b) asset management systems;
- (c) office buildings, depots and workshops;
- (d) office furniture and equipment;
- (e) motor vehicles; and
- (f) tools, plant and machinery

Non-standard contract

means a **contract** for **gas transmission services** that is not a **standard contract**

Not directly attributable

means-

- (a) in relation to **operating costs, operating costs** that are not **directly attributable**;
- (b) in relation to **regulated service asset values, regulated service asset values** that are not **directly attributable**

Notional net cash flows

means **line charge revenue** less monthly net cash outflows

O

Offtake peak	means, in relation to an offtake point on a transmission system , a period of specified duration during which the throughput of gas at the offtake point in the year ended 30 September is at its peak
Offtake point	means a point where gas is intended to exit the network owned by a person either; to enter a distribution network owned by the same person , or for use, conveyance, storage or any other purpose by any other person .
Operating cost	has the meaning given in the IM determination
Operational expenditure	means operating costs after applying clause 2.1.1 of the IM determination , except in relation to the Report on related party transactions where it means operating costs from related party transactions as determined after applying clause 2.1.1 of the IM determination and clause 2.3.7 of this determination
Other regulated income	has the meaning given in the IM determination
Other reliability, safety and environment	in relation to expenditure, means expenditure on assets where the primary driver is to improve network reliability or safety or to mitigate the environmental impacts of the network , but is not included in either of the quality of supply or legislative and regulatory categories. For example, this category may include expenditure on assets where the primary driver is to ensure staff safety or meet the GTB's environmental policies
Other network assets)	means network assets used by the GTB to provide gas transmission services that are not pipes, stations, compressors, mainline valves, or special crossings

P

Person	has the same meaning as defined in s 2 of the Act
Planned interruption	means any interruption in respect of which not less than 10 days notice was given, either to the public or to all consumers affected by the interruption
Prescribed contract	<p>means -</p> <ul style="list-style-type: none"> (a) a contract under which the GTB supplies gas transmission services; or (b) a contract for related services, if goods or services are to be supplied under the contract by— <ul style="list-style-type: none"> (i) the GTB; or (ii) a person that is a related party of the GTB; or (iii) a person that supplies gas pipeline services by means of works owned by the GTB; or (iv) a person that is a related party of a person of the kind referred to in subclause (iii)
Prescribed terms and conditions	<p>means, in relation to a contract for the supply of gas transmission services or for related services, the terms and conditions of the contract that—</p> <ul style="list-style-type: none"> (a) describe the goods or services to be supplied under the contract; (b) determine, or provide for the determination of the quantity or amount of those goods or services; (c) specify, determine, or provide for the determination of the- <ul style="list-style-type: none"> (i) price at which those goods or services are to be supplied;

- (ii) timing of payment for those goods or services;
- (iii) security for payment for those goods or services; and
- (iv) **GTB's** obligations and responsibilities (if any) to **consumers** in the event that the supply of **gas transmission services to consumers** is interrupted.

Price component	means the various tariffs, fees and charges that constitute the components of the total price paid, or payable, by a consumer
Prices	has the meaning given in the IM determination
Pricing principles	means, in relation to the supply of gas pipeline services , the principles as defined in clause 2.5.2 of the IM determination
Pricing strategy	means a decision made by the Directors of the GTB on the GTB's plans or strategy to amend or develop prices in the future, and recorded in writing
Pricing year	means the 12-month period for which prices are set using the pricing methodology disclosed under clause 2.4.1 of this determination
Primary driver	<p>means the primary reason for a decision to incur a cost in the year the cost was incurred or forecast to be incurred.</p> <p>For example, an asset may be relocated at the request of a third party and, at the same time, capacity on the asset increased to take account of expected future demand. If it is the third party request that required the asset to be relocated at that time, then the expenditure on assets would be allocated to asset relocation. If the deadline for relocating the asset was not imminent, but the project had to be completed to allow for the increase in capacity, then the expenditure on assets would be allocated to</p>

system growth.

Where there is more than one driver for a cost, and the cost is a significant proportion of **operational expenditure** or **expenditure on assets**, expenditure may be apportioned between expenditure categories according to the relative importance of each driver to the decision, or the project divided into cost categories

Publicly disclose

means to-

- (a) disclose the information to the public on the Internet at the **GTB's** usual publicly accessible website;
- (b) make copies of the information available for inspection by any **person** during ordinary office hours, at the principal office of the **GTB** making the public disclosure and
- (c) within 10 working days of being requested to do so by any **person**, provide that **person** with a copy of the information, either by post or for collection (during ordinary office hours) from that principal office, whichever the **person** prefers; and
- (d) within 5 working days after the information is disclosed to the public, provide a copy of the information to the **Commission** in the form that it is disclosed to the public and in an electronic format that is compatible with Microsoft Excel or Microsoft Word (as the case may be), and **public disclosure** and **publicly disclosing** have corresponding meanings

Q

Quality of supply

in relation to expenditure, means **expenditure on assets** where the **primary driver** is the need to meet improved security and/or quality of supply standards. This may include expenditure

to-

- (a) reduce the overall **interruption/fault** rate of the **network**;
- (b) reduce the average time that **consumers** are affected by **planned interruptions** and/or **unplanned interruptions**; or
- (c) reduce the average number of **consumers** affected by **planned interruptions** and/or **unplanned interruptions**.

R

RAB	means regulatory asset base and for the components of the RAB roll-forward, the values after applying clause 2.1.1 of the IM determination
Record	has the meaning given in section 4 of the Public Records Act 2005
Regulated Service	has the meaning given in the IM determination
Regulated service asset values	has the meaning given in the IM determination
Related party	has the meaning given in the IM determination
Related party transaction	means a transaction with a related party
Related services	means goods or services (other than the supply or conveyance of gas or gas appliances) supplied or to be supplied under a contract in any case where- <ul style="list-style-type: none">(a) there is a linkage between-<ul style="list-style-type: none">(i) that contract; and(ii) a contract for the supply or conveyance of gasby reason that the consideration for the supply of those goods or services is linked to, or combined with, payment for the supply or conveyance of that gas; and(b) the monetary value of the goods or services supplied, or to be supplied, under the contract referred to in (a)(i), in respect

of-

- (i) the period of 12 months immediately before the information relating to the **contract** for the supply or conveyance of gas referred to in (a)(ii) is **publicly disclosed** as required by clauses 2.4.9 or 2.4.12 of this determination; or
- (ii) the period of 12 months immediately after that information is **publicly disclosed**-

amounts to or will amount to more than 1% of the monetary value or projected monetary value of the **contract** referred to in (a)(ii)

Routine and corrective maintenance and inspection

in relation to expenditure, means **operational expenditure** where the **primary driver** is the activities specified in planned or programmed inspection, testing and maintenance work schedules and includes-

- (a) **fault** rectification work that is undertaken at a time or date subsequent to any initial **fault** response and restoration activities
- (b) routine inspection
- (c) functional and intrusive testing of assets, plant and equipment including critical spares and equipment
- (d) helicopter, vehicle and foot patrols, including negotiation of landowner access
- (e) asset surveys
- (f) environmental response
- (g) painting of **network** assets
- (h) outdoor and indoor maintenance of **stations**, including weed and vegetation clearance, lawn mowing and fencing
- (i) maintenance of access tracks, including associated security structures and weed and vegetation clearance
- (j) customer-driven maintenance

(k) notices issued

Routine transaction

means a **related party transaction** involving **MDL** and one of its shareholder businesses which is conducted in accordance with the Maui Pipeline Operating Code, does not contain any non-routine terms and conditions and relates to gas transmission shipments, balancing gas transactions, or transactions for the purchasing or selling of gas that was initiated on an exchange/trading platform for anonymous trading

S

Shared asset

means a **network** asset used by more than one **consumer** in order to receive **gas transmission services**

Sole use assets

means assets connected to the **network** for use by only 1 connecting **consumer** in order to receive **gas transmission services**

Special contract term

means -

- (a) a non-price term in a **contract** which materially differs from the terms which the parties in their respective positions would usually include in an arm's length **contract**; or
- (b) the omission of a material non-price term from a **contract**, when the parties in their respective positions would usually include that term in an arm's length **contract**; or a non-price term in a **contract** resulting from a tender process, which materially varies from, or was not included in, the contractual basis on which the tender proposals were requested or the terms proposed by the lowest qualifying tender from an unrelated party, which credibly could have performed the services

Standard contract

means any **contract** (being a **contract** for the

provision of **gas transmission services**)
between a **GTB** and any other **person**, where –

- (a) the **price** at which the **gas transmission services** are to be provided under the **contract** is determined solely by reference to a schedule of **prescribed terms and conditions**, being a schedule that is **publicly disclosed**; and
- (b) at least 4 other **persons** have such **contracts** with the **GTB**, and none of those other **persons** is a **related party** of the **GTB**, or is a **related party** of those other **persons**

Stations

means a facility at which an operation on and/or measurement of the gas occurs by means of device(s) installed at the facility

System growth

in relation to expenditure, means **expenditure on assets** where the **primary driver** is a change in demand or injection on a part of the **network** which results in a requirement for either additional capacity to meet this demand or additional investment to maintain current security and/or quality of supply standards due to the increased demand. This expenditure category includes **expenditure on assets** associated with SCADA and telecommunications assets

System peak

means, in relation to a **transmission system**, a period of specified duration during which the aggregate throughput of gas at all **offtake points** on the **transmission system** in the year ended 30 September is at its peak. The duration of the peak flow measurement period is specified to be that normally used by the business for its **transmission system** investment and capacity reservation evaluations

T

Target revenue means the revenue that the **GTB** expects to obtain from **prices**

Total opening RAB value means-

- (a) in relation to the **unallocated RAB**, the sum of unallocated opening **RAB** values as determined in accordance with the **IM determination**;
- (b) in relation to the **RAB**, the sum of opening **RAB** values as determined in accordance with the **IM determination**

Total regulatory income means-

- (a) in relation to the Report on Regulatory Profit, the sum of **line charge revenue, gains / (losses) on asset disposals** and **other regulated income**
- (b) in relation to the Report on Related Party Transactions, the income from **related party transactions** as determined after applying clauses 2.3.7 and 2.3.8 of this determination

Transitional AMP has the meaning given in subclause 2.13.1(2) of this determination

Transmission system means-

- (a) in the case of **MDL**, the **network** or one of the component parts of the **network** owned by **MDL**;
- (b) in the case of **Vector**, one of the component parts of the **network** owned by **Vector**

U

Unallocated RAB means for the components of the **RAB** roll-forward, the values before the application of clause 2.1.1 of the **IM determination**

Unallocated works under construction means for the components of the works under construction roll-forward, the works under construction values before the application of clause 2.1.1 of the **IM determination**

Unplanned interruption means any **interruption** that is not a **planned interruption**

V

Value of capital contributions means the value of **capital contributions** received by a **GTB** and accumulated during the construction phase of a project that creates a new **network** asset, determined in accordance with clause 2.2.11(1)(h) of the **IM determination** and allocated to the **gas transmission services** in accordance with the allocation of the regulated service asset values set out in clause 2.1.1 of the **IM determination**

Value of vested assets means the consideration incurred by a **GTB** and accumulated during the construction phase of a project that creates a new **network** asset, determined in accordance with clause 2.2.11(1)(i) of the **IM determination**

Vector means Vector Limited

W

Works under construction means-

(a) in relation to **unallocated works under construction**, the value of q calculated using the following formula:

$$q = a + b - c + d$$

where-

a = **unallocated works under construction** - preceding **disclosure year**;

b = **unallocated RAB capital expenditure**;

c = **unallocated RAB assets**

commissioned; and

d = adjustment resulting from asset allocation;

- (b) in relation to **allocated works under construction**, the value (as determined in accordance with paragraph (a)) which was allocated to **gas transmission services** in accordance with clause 2.1.1 of the **IM determination**

PART 2 DISCLOSURE REQUIREMENTS

2.1 INFORMATION DISCLOSURE

2.1.1 Subject to sections 2.11 and 2.13, from the **commencement date** every **GTB** must comply with the information disclosure requirements set out in this determination and, in particular, must comply with-

- (1) The requirements to disclose financial information in section 2.3;
- (2) The requirement to disclose pricing and related information in section 2.4;
- (3) The requirement to disclose non-financial information relating to network assets in section 2.5;
- (4) The requirement to disclose asset management plans and forecast information in section 2.6;
- (5) The requirement to disclose explanatory notes in relation to disclosed information in section 2.7;
- (6) The audit, certification and verification requirements in sections 2.8 and 2.9;
- (7) The retention and continuous disclosure requirements in section 2.10;
- (8) The transitional provisions in section 2.13.

2.2 APPLICABLE INPUT METHODOLOGIES

2.2.1 Every **GTB** must apply the requirements set out in the following subparts of the **IM determination** as applicable, when complying with this determination-

- (1) Subpart 1 of part 2, cost allocation;
- (2) Subpart 2 of part 2, asset valuation;
- (3) Subpart 3 of part 2, treatment of taxation;
- (4) Subpart 5 of part 2, pricing methodologies.

2.3 FINANCIAL INFORMATION FOR THE DISCLOSURE YEAR

Annual disclosure relating to financial information for the disclosure year

2.3.1 Within 6 months after the end of each **disclosure year**, every **GTB** must disclose information relating to its financial position by-

- (1) Completing each of the following reports by inserting all information relating to the **gas transmission services** supplied by the **GTB** for that **disclosure year**-
 - (a) the Analytical Ratios set out in Schedule 1;
 - (b) the Report on Return on Investment set out in Schedule 2;
 - (c) the Report on Regulatory Profit set out in Schedule 3;
 - (d) the Report on Value of the Regulatory Asset Base (Rolled Forward) set out in Schedule 4;
 - (e) the Report on Regulatory Tax Allowance set out in Schedule 5a;
 - (f) the Report on Related Party Transactions set out in Schedule 5b;
 - (g) the Report on Term Credit Spread Differential Allowance set out in Schedule 5c;
 - (h) the Report on Cost Allocations set out in Schedule 5d;
 - (i) the Report on Asset Allocations set out in Schedule 5e;
 - (j) the Report on Capital Expenditure for the Disclosure Year set out in Schedule 6a;
 - (k) the Report on Operational Expenditure for the Disclosure Year set out in Schedule 6b;
 - (l) the Comparison of Forecasts to Actual Expenditure set out in Schedule 7; and
- (2) **Publicly disclosing** each of those reports.

2.3.2 Within 6 months and 5 working days after the end of each **disclosure year**, every **GTB** must disclose to the **Commission** information supporting the information disclosed in accordance with clause 2.3.1 by completing each of the following

reports by inserting all information relating to the information supplied by the **GTB** in Schedules 5d and 5e for that **disclosure year**-

- (1) the Report Supporting Cost Allocations set out in Schedule 5f;
- (2) the Report Supporting Asset Allocations set out in Schedule 5g.

Alternative method for return on investment information

2.3.3 In completing the Report on Return on Investment in Schedule 2-

- (1) Each **GTB** must disclose information in accordance with part 2(iii) of Schedule 2 if during the first three months or last three months of the **disclosure year**-
 - (a) the value of **assets commissioned** by the **GTB** exceeds 10% of the **total opening RAB values**; or
 - (b) the **notional net cash flows** exceed 40% of the annual **notional net cash flows**;
- (2) Otherwise a **GTB** may elect to disclose information in accordance with part 2(iii) of Schedule 2.

Tax rate applicable to MDL

2.3.4 In completing Schedule 5a and Schedule 14, **MDL** must use the statutory tax rate as the value for the corporate tax rate, and is not required to disclose the effect of any tax permanent differences or temporary differences.

Term credit spread differential allowance

2.3.5 The Report on Term Credit Spread Differential Allowance in Schedule 5c is only required to be completed by qualifying suppliers as qualifying suppliers is defined in the **IM determination**.

Allocation of assets and operating costs

2.3.6 In completing the Report on Cost Allocations in Schedule 5d and the Report on Asset Allocations in Schedule 5e every **GTB** must **publicly disclose**, for each **operational expenditure** category in Schedule 5d and each asset category in Schedule 5e that has **not directly attributable** costs -

- (1) A description of the **not directly attributable** costs or assets;
- (2) The **allocation methodology types** used to allocate the **not directly attributable** costs or assets;
- (3) Where more than one allocation method is used, the percentage of **not directly attributable** costs or assets allocated using each method;
- (4) Where ABAA or OVABAA methodologies are used, whether the **allocators** are proxy asset allocators, proxy cost allocators or causal allocators, as ABAA, OVABAA, proxy assets allocator, proxy cost allocator and causal are defined in the **IM determination**; and
- (5) The **allocators** used and the rationale for using each **allocator**.

Related party transactions

2.3.7 For the purpose of clause 2.3.1, the cost of any service, good, or asset acquired from a **related party** must be-

- (1) For the cost of an **commissioned** asset or a component of a **commissioned** asset acquired from a **related party**, as determined in accordance with clause 2.2.11(1)(e)-(g) of the **IM determination**;
- (2) For any service or good, which does not result from a routine transaction, one of the following-
 - (a) at the directly attributable cost incurred by the **related party** in accordance with the cost allocation process set out in clauses 2.1.1 of the **IM determination**, provided that the cost incurred by the **related party** in providing the service to the **GTB**-
 - (i) is fair and reasonable to the **GTB**; and
 - (ii) is substantially the same as the cost incurred by the **related party** in providing the same type of services to third parties; or

- (b) for gas **contracting services** to maintain or develop the **network**, at the directly attributable cost incurred by the **related party**, determined in accordance with the cost allocation process set out in clause 2.1.1 of the **IM determination**, plus a **mark-up** which does not exceed 17.2%; or
- (c) the price paid by the **GTB**, where—
 - (i) at least 50% of the **related party's** sales of services and goods are to third parties, and third parties may purchase the same or similar services or goods from the **related party** on substantially the same terms and conditions, including price; or
 - (ii) that price is substantially the same as the price paid for the same or substantially similar services or goods (including any adjustments for inflation using CPI or an appropriate input price index) on substantially the same terms and conditions in the preceding 3 **disclosure years** from a party other than a **related party**; or
- (d) at the price paid by the **GTB**, where—
 - (i) the price paid for all services, goods, and assets acquired from that **related party** is less than 1% of the **GTB's** total revenue from the **regulated service** for that year; and
 - (ii) the total price paid for all **related party transactions** is less than 5% of the **GTB's** total revenue from the **regulated service**; or
- (e) at the price paid by the **GTB** to the **related party** following a competitive tender process, provided that—
 - (i) the price is no more than 5% higher than the price of the lowest conforming tender received;
 - (ii) all relevant information material to consideration of a proposal was provided to third parties, or made available upon request;
 - (iii) at least one other qualifying proposal was received;

- (iv) the final agreement for the provision of the services, goods, or assets by the **related party** does not include any **special contract terms**;
- (v) the **GTB** retains for a period of 7 years following the closing date of tender proposals a **record** of the tender and tender process, including request for information and/or proposal, the criteria used for the assessment of proposals, reasons for acceptance or rejection of proposals, and all proposals and requests for information on the tender for the purposes of making proposals; and
- (f) the price paid by the **GTB**, provided—
 - (i) the price cannot otherwise be determined under subclauses (a) to (e), and
 - (ii) no fewer than 2 **directors** of the **GTB** provide a written certification that they are satisfied that the price or prices paid for all services and, goods, determined in accordance with this paragraph reflect the price or prices that would be paid in an arm's-length transaction; or
- (g) nil.

2.3.8 For the purpose of clause 2.3.1, the price received for any sale or supply of services, goods, or assets to a **related party**, which does not result from a routine transaction, must be one of the following-

- (1) If the **related party** is another **GTB**, an **EDB**, or **GDB** required to **publicly disclose** the price paid or cost incurred in accordance with another **Commission** determination, then the price received must be that disclosed by the **related party**; or
- (2) If the price received cannot be determined under subclause (1), then-
 - (a) at the price received from the **related party**, where the **GTB** makes at least 50% of its revenue from the provision of similar services to unrelated parties, and the price charged by the **GTB** to the **related party** is substantially the same as the price charged to third parties for similar services, goods, or assets on substantially the same terms and conditions; or

- (b) at the price received from the **related party**, provided that no fewer than 2 directors of the **GTB**'s provide a written certification that they are satisfied that the prices received for all services, goods, or assets provided to **related parties** reflect the price or prices that would be received in an arm's length transaction; or
- (c) at the cost incurred by the **GTB** in providing the service, good, or asset.

Information on capital expenditure projects

2.3.9 In completing the Report on Capital Expenditure for the Disclosure Year in Schedule 6a, every **GTB** must disclose the following information in relation to material projects and programmes-

- (1) Separately disclose **consumer connection** expenditure for each consumer type defined by the **GTB** in 6a(iii) of Schedule 6a;
- (2) For each material **asset relocation** project in Schedule 6a-
 - (a) separately disclose a brief description of the project and its value in 6a(v) of Schedule 6a;
 - (b) provide any additional commentary, including the purpose of the project and a description of the assets relocated for each project in Schedule 14 (Mandatory Explanatory Notes);
- (3) For each material **quality of supply** project in Schedule 6a-
 - (a) separately disclose a brief description of the project and its value in 6a(vi) of Schedule 6a;
 - (b) provide any additional commentary, including the purpose of the project and a description of the assets affected for each project in Schedule 14 (Mandatory Explanatory Notes);
- (4) For each material **legislative and regulatory** project in Schedule 6a-
 - (a) separately disclose a brief description of the **legislative and regulatory** requirement and the value of the project in 6a(vii) of Schedule 6a;
 - (b) provide any additional commentary, including the purpose of the projects and a description of the assets affected for each project in Schedule 14 (Mandatory Explanatory Notes);

- (5) For each material **other reliability, safety and environment** project in Schedule 6a-
 - (a) separately disclose a brief description of the project and its value in 6a(viii) of Schedule 6a;
 - (b) provide any additional commentary, including the purpose of the project and a description of the assets affected for each project in Schedule 14 (Mandatory Explanatory Notes);
- (6) For each material **non-network assets** project in Schedule 6a-
 - (a) separately disclose a brief description of the project and its value in 6a(ix) of Schedule 6a;
 - (b) provide any additional commentary, including the purpose of the project and a description of the assets affected for each project in Schedule 14 (Mandatory Explanatory Notes).

Information on physical service life potential

- 2.3.10 For all assets or groups of assets where the **GTB** has changed the asset(s)' depreciation profile or the asset(s) was **commissioned** during the **disclosure year**, and the asset(s)' life service potential was determined by an engineer in accordance with clause 2.2.8 of the **IM determination**, within 6 months after the end of each **disclosure year**, the **GTB** must **publicly disclose** the report written by the engineer which was prepared in accordance with clause 2.2.8(3)(b) of **the IM determination**.

2.4 PRICING AND RELATED INFORMATION

Disclosure of pricing methodologies

- 2.4.1 Every **GTB** must **publicly disclose**, before the start of each **pricing year**, a pricing methodology which-
- (1) Describes the methodology, in accordance with clause 2.4.3, used to calculate the **prices** payable or to be payable;
 - (2) Describes any changes in **prices** and **target revenues**;
 - (3) Explains, in accordance with clause 2.4.5, the approach taken with respect to pricing in **non-standard contracts**; and

- (4) Explains whether, and if so how, the **GTB** has sought the views of **consumers**, including their expectations in terms of **price** and quality, and reflected those views in calculating the **prices** payable or to be payable. If the **GTB** has not sought the views of **consumers**, the reasons for not doing so must be disclosed.
- 2.4.2 Any change in the pricing methodology or adoption of a different pricing methodology, must be **publicly disclosed** at least 20 working days before the **prices** determined in accordance with the change or the different pricing methodology take effect.
- 2.4.3 Every disclosure under clause 2.4.1 must-
- (1) Include sufficient information and commentary for interested **persons** to understand how **prices** were set for **consumers**, including the assumptions and statistics used to determine **prices** for **consumers**;
 - (2) Demonstrate the extent to which the pricing methodology is consistent with the **pricing principles** and explain the reasons for any inconsistency between the pricing methodology and the **pricing principles**;
 - (3) State the **target revenue** expected to be collected for the current **pricing year** to which the pricing methodology applies;
 - (4) Where applicable, identify the key components of **target revenue** required to cover the costs and return on investment associated with the **GTB's** provision of **gas transmission services**. Disclosure must include the numerical value of each of the components;
 - (5) If **prices** have changed from **prices** disclosed for the immediately preceding **pricing year**, explain the reasons for changes, and quantify the difference for each of those reasons;
 - (6) Where applicable, describe the method used by the **GTB** to allocate the **target revenue** among **consumers**, including the numerical values of the **target revenue** allocated to **consumers**, and the rationale for allocating it in this way;
 - (7) State the proportion of **target revenue** (if applicable) that is collected through each **price component** as **publicly disclosed** under clause 2.4.18.

2.4.4 Every disclosure under clause 2.4.1 must, if the **GTB** has a **pricing strategy**-

- (1) Explain the **pricing strategy** for the next 5 **pricing years** (or as close to 5 years as the **pricing strategy** allows), including the current **pricing year** for which **prices** are set;
- (2) Explain how and why **prices** for **consumers** are expected to change as a result of the **pricing strategy**;
- (3) If the **pricing strategy** has changed from the preceding **pricing year**, identify the changes and explain the reasons for the changes.

2.4.5 Every disclosure under clause 2.4.1 must-

- (1) Describe the approach to setting **prices** for **non-standard contracts**, including-
 - (a) the extent of **non-standard contract** use, including the value of **target revenue** expected to be collected from **consumers** subject to **non-standard contracts**;
 - (b) how the **GTB** determines whether to use a **non-standard contract**, including any criteria used;
 - (c) any specific criteria or methodology used for determining **prices** for **consumers** subject to **non-standard contracts**, and the extent to which these criteria or that methodology are consistent with the **pricing principles**;
- (2) Describe the **GTB's** obligations and responsibilities (if any) to **consumers** subject to **non-standard contracts** in the event that the supply of **gas transmission services** to the **consumer** is interrupted. This description must explain-
 - (a) the extent of the differences in the relevant terms between **standard contracts** and **non-standard contracts**;
 - (b) any implications of this approach for determining **prices** for **consumers** subject to **non-standard contracts**.

*Disclosure of capital contributions*2.4.6 Every **GTB** must at all times **publicly disclose**-

- (1) A description of its current policy or methodology for determining **capital contributions**, including-
 - (a) the circumstances (or how to determine the circumstances) under which the **GTB** may require a **capital contribution**;
 - (b) how the amount payable of any **capital contribution** is determined. Disclosure must include a description of how the costs of any assets (if applicable), including any **shared assets** and any **sole use assets** that are included in the amount of the **capital contribution**, are calculated;
 - (c) the extent to which any policy or methodology applied is consistent with the relevant **pricing principles**;
- (2) A statement of whether a **consumer** or any other **person** can use an independent contractor to undertake some or all of the work covered by the **capital contribution** sought by the **GTB**;
- (3) If the **GTB** has a standard schedule of **capital contributions** charges, the current version of that standard schedule.

2.4.7 When a **consumer** or other **person** from whom a **GTB** seeks a **capital contribution** queries the **capital contribution** charge, (and when the charge is not covered in the schedule of standard **capital contribution** charges, or no such schedule exists) a **GTB** must, within 10 working days of receiving the request, provide reasonable explanation to any reasonable query from that **consumer** or other **person** of the components of that charge and how these were determined.

2.4.8 The requirements in clauses 2.4.6 and 2.4.7 apply if-

- (1) the **GTB** determines the amount of **capital contributions**; or
- (2) the **GTB** has or can obtain information about the policy or methodology used by another **person** to determine **capital contributions** where the **GTB** receives those **capital contributions**.

Disclosure of prescribed terms and conditions of contracts

- 2.4.9 Every **GTB** must, not later than 20 working days after entering into a **prescribed contract** that is a **standard contract**, **publicly disclose** the **prescribed terms and conditions** of the **prescribed contract**.
- 2.4.10 Subject to section 53C(4) of the **Act**, if any **prescribed terms and conditions** of a **prescribed contract** which is also a **standard contract** (including a **prescribed contract** that was entered into before 1 October 2012) are modified, the **GTB** must, not later than 20 working days after those modifications take effect, **publicly disclose**-
- (1) The **prescribed contract** concerned;
 - (2) The modifications made to the **prescribed terms and conditions**.
- 2.4.11 For the purposes of this section, **public disclosure** by a **GTB** of the **prescribed terms and conditions** of a **standard contract** is to be regarded as **public disclosure** by that **GTB** in relation to all of its **standard contracts** with the same **prescribed terms and conditions**.
- 2.4.12 Subject to section 53C(4) of the **Act** every **GTB** must, in respect of all **prescribed contracts** that are **non-standard contracts** entered into during the **disclosure year**, no earlier than 6 months after the end of that **disclosure year**, either **publicly disclose**-
- (1) A description of the goods or services to be supplied under the **contract** and the quantity or amount of those goods or services to be supplied under the **prescribed contract**; or
 - (2) The **prescribed terms and conditions** of each **prescribed contract** with the exception of **prescribed terms and conditions** that specify, determine, or provide for the determination of the **price** at which goods or services are to be supplied.

- 2.4.13 For any **contract** for which information is **publicly disclosed** under clause 2.4.12, unless **prescribed terms and conditions** have been **publicly disclosed** under subclause 2.4.12(2), every **GTB** must, within 20 working days of a request by any **person**, provide to that **person** and **publicly disclose** the **prescribed terms and conditions** of the **prescribed contract**, with the exception of **prescribed terms and conditions** that specify, determine, or provide for the determination of the **price** at which goods or services are to be supplied.
- 2.4.14 Clauses 2.4.15 and 2.4.16 apply to **prescribed contracts**-
- (1) For which information was disclosed in any previous **disclosure year** under clause 2.4.12 or clause 2.4.13; or
 - (2) Which were entered into before 1 October 2012.
- 2.4.15 Subject to section 53C(4) of the **Act**, if any **prescribed terms and conditions** of a **prescribed contract** described under clause 2.4.14 are modified, every **GTB** must **publicly disclose**, no earlier than 6 months after the end of the **disclosure year** in which the **prescribed contract** was modified-
- (1) The existence of the **prescribed contract** described in clause 2.4.14 that has been modified; and
 - (2) The fact of its modification.
- 2.4.16 Within 20 working days of a request by any **person**, the **GTB** must provide to the **person** and **publicly disclose** the **prescribed terms and conditions** of the **prescribed contract** described in clause 2.4.15, with the exception of **prescribed terms and conditions** that specify, determine or provide for the determination of the **price** at which goods and services are to be supplied.
- 2.4.17 Every **GTB** must, when **publicly disclosing** or disclosing on request to any **person** (as the case may be) the **prescribed terms and conditions** of a **non-standard contract** under any of clauses 2.4.12, 2.4.13, or 2.4.16, include the following information-
- (1) The maximum monthly amount of gas (in gigajoules) to be conveyed to the **consumer** under the **contract**, or (if the amount is not quantified in the **contract**) a reasonable estimate of that amount based on the duration of the **contract**;
 - (2) The month in which the supply of the maximum monthly amount of gas referred to in subclause 2.4.17(1) of this section is to occur, or is most likely to occur;

- (3) The pressure or pressures at which the gas is to be supplied or conveyed under that **contract**, or (if the pressure is not specified in the **contract**) a reasonable estimate of that pressure.

Disclosure of prices

2.4.18 Every **GTB** must at all times **publicly disclose**-

- (1) Each current **price** expressed in a manner that enables individual **consumers** to determine the total **price** for **gas transmission services** which is applicable to them;
- (2) The number (or estimated number) of **consumers** which must pay each **price**;
- (3) The date at which each **price** was or will be first introduced;
- (4) The **prices** represented by each **price component** applicable to them; and
- (5) The **price** that was payable immediately before each current **price** (if any) expressed in the manner referred to in subclause (1).

2.4.19 Every **GTB** must, at least 20 working days before changing or withdrawing a **price** or introducing a new **price**-

- (1) **Publicly disclose**-
 - (a) the information specified in clause 2.4.18 in respect of that **price**;
 - (b) an explanation of the reasons for the new **price** or the changed or withdrawn **price**; and
- (2) In addition, either-
 - (a) give written notice to each consumer by whom that price is, or in the case of a withdrawn price would have been, payable, including the information specified in clause 2.4.18 in respect of that price; or
 - (b) notify in the news section of either-
 - (i) 2 separate editions of each newspaper; or
 - (ii) news media accessible using the internet that is widely read by **consumers** connected to the **GTB's** network, details of the **price**, including-

- (iii) the changed price alongside the immediately preceding price applicable; and
- (iv) contact details where further details of the new or changed price can be found including the URL of the **GTB**'s publicly accessible website.

Annual disclosure of information on quantities and revenues billed

2.4.20 Within 6 months after the end of each **disclosure year**, every **GTB** must **publicly disclose** the information specified in Schedule 8.

2.5 NON-FINANCIAL INFORMATION RELATING TO NETWORK ASSETS

Annual disclosure of information on network assets and reliability

2.5.1 Within 6 months after the end of each **disclosure year**, every **GTB** must—

- (1) Complete each of the following reports by inserting all information relating to the **gas transmission services** supplied by the **GTB** for the **disclosure years** provided for in the following reports-
 - (a) the Asset Register set out in Schedule 9a;
 - (b) the Asset Age Profile set out in Schedule 9b;
 - (c) the Report on Pipeline Data set out in Schedule 9c;
 - (d) the Report on Demand set out in Schedule 9d;
 - (e) the Report on Network Reliability and Interruptions set out in Schedule 10a
 - (f) the Report on Network Integrity in Schedule 10b; and
- (2) **publicly disclose** each of these reports.

Disclosure of information on peak flows, gas transmission capacity, and capacity reservations

2.5.2 Peak flow information-

- (1) Subject to subclause 2.5.2(4), by the end of November in each year, every **GTB** must **publicly disclose** in respect of the most recent 12 month period ended 30 September-

- (a) for each **transmission system**, the information specified in subclause 2.5.2(2);
 - (b) for each **offtake point** with a throughput of gas during the **system peak** flow period of 2,000 GJ or more, the information specified in subclause 2.5.2(3);
- (2) The information referred to in subclause (1)(a) is-
- (a) the end date and duration of the **system peak** flow period;
 - (b) the total throughput of gas (in GJ) at each **intake point** during the **system peak** flow period;
- (3) The information referred to in subclause 2.5.2(1)(b) is-
- (a) the end date and duration of the **offtake peak** flow period;
 - (b) the throughput of gas (in GJ) at the **offtake point** in each hour of the **system peak** flow period;
 - (c) the total throughput of gas (in GJ) at the **offtake point** during the **system peak** flow period;
 - (d) the total throughput of gas (in GJ) at the **offtake point** during the **offtake peak** flow period;
- (4) Notwithstanding subclause 2.5.2(1), **public disclosure** is deemed to have occurred if the information specified in subclauses 2.5.2(2) and 2.5.2(3) is posted on a website normally used for the publication of the **GTB's** transmission data within one week after the end of the **disclosure year** and can be readily accessed at no charge by interested **persons**, with the information retained on such a website for a period of not less than five years.

2.5.3 Capacity allocation methodology-

- (1) Within 6 months after the end of each **disclosure year**, every **GTB** must **publicly disclose** a description of the extent to which current capacity allocation methodologies result in efficient outcomes. The disclosure must include a description of-
- (a) the methodology or methodologies used to determine how capacity is assigned;

- (b) which, if any, requests for capacity was approved in full or in part during the **disclosure year**, including how, if at all, the quantity of uncommitted capacity in the pipeline was determined;
 - (c) the extent of unmet demand for capacity during the past **disclosure year**, including the information specified in subclause 2.5.3(2).
- (2) The information referred to in subclause 2.5.3(1)(c) is as follows-
- (a) total number of requests for firm capacity that the **GTB** has not approved in full in the past **disclosure year**;
 - (b) maximum daily quantities associated with the requests referred to in subclause 2.5.3(2)(a), aggregated by **offtake point**;
 - (c) in respect of each request for firm capacity not approved in full, the reasons for the request not being fulfilled.

2.5.4 Transmission System Capacity Reservations-

- (1) Within 6 months after the end of each **disclosure year**, in respect of the firm capacity held or reserved by-
- (a) the **GTB**, including any **person** involved in the **GTB**; and
 - (b) all other **persons** collectively;
 - (c) every **GTB** must **publicly disclose** the information specified in subclause 2.5.4(2) concerning the capacity reservations that applied to the **offtake points** specified in subclause 2.5.4(3) on the days specified in subclause 2.5.4(4);
- (2) The information referred to in subclause 2.5.4(1)(c) is as follows-
- (a) the effective maximum daily quantity (in GJ) applicable to the aggregate amount of firm capacity;
 - (b) the effective maximum hourly quantity (in GJ) applicable to the aggregate amount of firm capacity;
 - (c) the nominal delivery pressure where such pressure is greater than 20 bar gauge;
- (3) The **offtake points** referred to in subclause 2.5.4(1) are the **offtake points**-

- (a) with a throughput of gas in the **system peak** flow period of 2,000 GJ or more; or
 - (b) a contractual firm maximum daily quantity in the **system peak** flow period of 10,000 GJ or more, irrespective of the throughput; or
 - (c) with a nominal delivery pressure greater than 20 bar gauge in the **system peak** flow period;
 - (d) with all other **offtake points** taken together as a group;
- (4) The days referred to in subclause 2.5.4(1) are-
- (a) the last day of the preceding **pricing year**;
 - (b) the first day of the new **pricing year**;
 - (c) the first day in the **system peak** flow period.

2.6 ASSET MANAGEMENT PLANS AND FORECAST INFORMATION

2.6.1 Subject to clauses 2.6.3 and 2.13.1, before the start of each **disclosure year** commencing with, for **Vector** the **disclosure year** 2014, and for **MDL** the **disclosure year** 2015, every **GTB** must

- (1) Complete an **AMP** that—
 - (a) relates to the **gas transmission services** supplied by the **GTB**;
 - (b) meets the purposes of **AMP** disclosure set out in clause 2.6.2;
 - (c) has been prepared in accordance with Attachment A to this determination;
 - (d) contains the information set out in the schedules described in clause 2.6.5;
 - (e) contains the Report on Asset Management Maturity as described in clause 3.5 of Schedule 13;
- (2) Completes the Report on Asset Management Maturity in accordance with the requirements specified in Schedule 13; and
- (3) **Publicly disclose** the **AMP**.

2.6.2 The purposes of **AMP** disclosure referred to in subclause 2.6.1(1)(b) are that the **AMP**—

- (1) Must provide sufficient information for interested **persons** to assess whether-
 - (a) assets are being managed for the long term;
 - (b) the required level of performance is being delivered; and
 - (c) costs are efficient and performance efficiencies are being achieved;
- (2) Must be capable of being understood by interested **persons** with a reasonable understanding of the management of infrastructure assets;
- (3) Should provide a sound basis for the ongoing assessment of asset-related risks, particularly high impact asset-related risks.

2.6.3 Subject to clause 2.13.1, a **GTB** may elect to not comply with clause 2.6.1 in the current **disclosure year** if –

- (1) the start of the **disclosure year** described in clause 2.6.1 is not-
 - (a) between 6 (inclusive) and 18 months after the start of the **DPP regulatory period**; or
 - (b) between 18 (inclusive) and 30 months before the start of the next **DPP regulatory period**, and
- (2) the **GTB** has **publicly disclosed** an **AMP** under clause 2.6.1 in respect of the prior **disclosure year**; and
- (3) the **GTB** completes and **publicly discloses**, before the start of the **disclosure year**, an **AMP update** as described under clause 2.6.4.

2.6.4 For the purpose of subclause 2.6.3(3), the **AMP update** must—

- (1) Relate to the **gas transmission services** supplied by the **GTB**;
- (2) Identify any material changes to the **network** development plans disclosed in the last **AMP** under clause 14 of Attachment A or in the last **AMP update** disclosed under this section;
- (3) Identify any material changes to the lifecycle asset management (maintenance and renewal) plans disclosed in the last **AMP** pursuant to

clause 15 of Attachment A or in the last **AMP update** disclosed under this section;

- (4) Provide the reasons for any material changes to the previous disclosures in the Report on Forecast Capital Expenditure set out in Schedule 11a and Report on Forecast Operational Expenditure set out in Schedule 11b ;
- (5) Provide an assessment of transmission capacity as set out in clause 8 of Attachment A;
- (6) Identify any material changes related to the legislative requirements as set out in subclause 3.6 of Attachment A;
- (7) Identify any changes to the asset management practices of the **GTB** that would affect a Schedule 13 Report on Asset Management Maturity disclosure; and
- (8) Contains the information set out in the schedules described in clause 2.6.5.

2.6.5 Before the start of each **disclosure year**, each **GTB** must complete and **publicly disclose** each of the following reports by inserting all information relating to the **gas transmission services** supplied by the **GTB** for the **disclosure years** provided for in the following reports—

- (1) the Report on Forecast Capital Expenditure in Schedule 11a;
- (2) the Report on Forecast Operational Expenditure in Schedule 11b;
- (3) the Report on Asset Condition in Schedule 12a;
- (4) the Report on Forecast Demand in Schedule 12b.

2.7 EXPLANATORY NOTES TO INFORMATION RELATING TO THE DISCLOSURE YEAR

2.7.1 Within 6 months after the end of each **disclosure year**, every **GTB** must complete and **publicly disclose** the Schedule of Mandatory Explanatory Notes (Schedule 14) by inserting all information relating to information disclosed in accordance with clauses 2.3.1, 2.4.20, subclause 2.5.1(1)(e) and clause 2.12.2.

- (1) In relation to details of any insurance cover for the assets used to provide **gas transmission services**, the explanatory notes in Schedule 14 must include-
 - (a) the **GTB's** approaches and practices in regard to the insurance of assets, including the level of insurance;

- (b) in respect of any self insurance, the level of reserves, details of how reserves are managed and invested, and details of any reinsurance.
- (2) Where an item disclosed in accordance with clause 2.3.1 is classified differently from the previous year, the explanatory notes in Schedule 14 must include the-
 - (a) nature of the item reclassified;
 - (b) value of the item in the current **disclosure year** and in the previous **disclosure year**;
 - (c) classification of the item in the previous **disclosure year**;
 - (d) classification of the item in the current **disclosure year**; and
 - (e) reason why the item has been reclassified.
- 2.7.2 Before the start of each **disclosure year**, every **GTB** must complete and **publicly disclose** the Mandatory Explanatory Notes on Forecast Information in Schedule 14a by inserting all relevant information relating to information disclosed in accordance with clause 2.6.5.
- 2.7.3 Within 6 months after the end of each **disclosure year**, every **GTB** may **publicly disclose** any further comment on the information disclosed in accordance with clauses 2.3.1, 2.4.20, 2.5.1 and 2.5.2, in Schedule 15.

2.8 ASSURANCE REPORTS

2.8.1 Where a **GTB** is required to **publicly disclose** any **audited disclosure information**, the **GTB** must-

- (1) Procure an assurance report by an **independent auditor** in respect of that **audited disclosure information**, that is prepared in accordance with Standard on Assurance Engagements 3100 – Compliance Engagements (SAE 3100) and International Standard on Assurance Engagements 3000 (ISAE (NZ) 3000) or their successor standards, signed by the **independent auditor** (either in his or her own name or that of his or her firm), that-
 - (a) is addressed to the **directors** of the **GTB** and to the **Commission** as the intended users of the assurance report;
 - (b) states-
 - (i) that it has been prepared in accordance with Standard on Assurance Engagements 3100 – Compliance Engagements (SAE 3100) and International Standard on Assurance Engagements 3000 (ISAE (NZ) 3000) or their successor standards; and
 - (ii) the work done by the **independent auditor**; and
 - (iii) the scope and limitations of the assurance engagement; and
 - (iv) the existence of any relationship (other than that of auditor) which the **independent auditor** has with, or any interests which the **independent auditor** has in, the **GTB** or any of its subsidiaries; and
 - (v) whether the **independent auditor** has obtained sufficient recorded evidence and explanations that he or she required and, if not, the information and explanations not obtained; and
 - (vi) whether, in the **independent auditor**'s opinion, as far as appears from an examination, the information used in the preparation of the **audited disclosure information** has been properly extracted from the **GTB**'s accounting and other

records, sourced from its financial and non-financial systems;
and

- (vii) whether, in the **independent auditor's** opinion, as far as appears from an examination of them, proper **records** to enable the complete and accurate compilation of the **audited disclosure information** required by the Gas Transmission Information Disclosure Determination 2015 have been kept by the **GTB** and, if not, the **records** not so kept; and
 - (c) states whether (and, if not, the respects in which it has not), in the **independent auditor's** opinion, the **GTB** has complied, in all material respects, with the Gas Transmission Information Disclosure Determination 2015 in preparing the **audited disclosure information**; and
- (2) **Publicly disclose** the **independent auditor's** assurance report prepared in accordance with subclause 2.8.1(1) at the same time as the **GTB publicly discloses** the **audited disclosure information**.

2.9 CERTIFICATES

- 2.9.1 Where a **GTB** is required to **publicly disclose** any information under any of clause 2.6.1, subclause 2.6.3(3), clauses 2.6.5 and 2.7.2, and subclause 2.13.1(1)(b), the **GTB** must at that time **publicly disclose** a certificate in the form set out in Schedule 17 in respect of that information, duly signed by 2 **directors** of the **GTB**.
- 2.9.2 Where a **GTB** is required to **publicly disclose** any information under clause 2.4.1, the **GTB** must at that time **publicly disclose** a certificate in the form set out in Schedule 18 in respect of that information, duly signed by 2 **directors** of the **GTB**.
- 2.9.3 Where a **GTB** is required to **publicly disclose**, or disclose to the **Commission**, any information under any of clauses 2.3.1, 2.3.2, 2.4.20, 2.5.1, 2.7.1 and 2.12.2 the **GTB** must at that time **publicly disclose** a certificate in the form set out in Schedule 19 in respect of that information, duly signed by 2 **directors** of the **GTB**.

2.10 RETENTION AND CONTINUING DISCLOSURES

2.10.1 A **GTB** that is required by this determination to **publicly disclose** any information must retain, and continuously **publicly disclose**, that information for at least seven years from the date that information is first required to be **publicly disclosed**.

2.11 EXEMPTIONS

2.11.1 The **Commission** may at any time, by written notice to a **GTB**-

- (1) Exempt the **GTB** from any or all of the requirements of this determination, for a period and on such terms and conditions as the **Commission** specifies in the notice; and
- (2) Amend or revoke any such exemption.

2.12 DISCLOSURE OF ERRORS IN PREVIOUSLY DISCLOSED INFORMATION

2.12.1 Subject to clause 2.13.1, where an **error** is identified in previous information disclosures under clauses 2.3.1, 2.3.2, 2.4.20, 2.5.1, 2.7.1, 2.7.2 and 2.7.3 a **GTB** must-

- (1) within 1 month of identifying the **error**, provide the **Commission** with-
 - (a) a description of the **error**;
 - (b) the disclosure and data point the **error** has an effect on; and
 - (c) an explanation of the effect on each of the previous disclosures, including an indication of the materiality of that effect.
- (2) after disclosing the **error** to the **Commission** in accordance with subclause (1), disclose alongside the original disclosure-
 - (a) a description of the **error**;
 - (b) the schedules and data points the **error** effects; and
 - (c) where a disclosure relating to the **error** -
 - (i) has been made in accordance with clause 2.12.2, reference to the disclosure made in accordance with 2.12.2; or

- (ii) in all other instances, an indication of the effect on each of the disclosures.

2.12.2 For each material **error** identified in clause 2.12.1, every **GTB** must -

- (1) include in the next Schedule 14 disclosed in accordance with clause 2.7.1-
 - (a) a description of the **error**;
 - (b) the previous and revised disclosures for each affected data point;
 - (c) the reason for the **error**; and
- (2) certify and audit the disclosure in accordance with the certification and audit requirement of the original disclosure.

2.12.3 Subject to clause 2.13.1, where a material **error** is identified in previous information disclosures under clause 2.4.1 and 2.6.1, subclause 2.6.3(3) and clause 2.6.5, a **GTB** must-

- (1) disclose a new version of the disclosure in accordance with the requirement;
- (2) certify the revised disclosure in accordance with the requirement of the original disclosure;
- (3) disclose on the front page of the disclosure made in accordance with subclause (1);
 - (a) that the disclosure is a revised disclosure;
 - (b) the date of the original disclosure and date of the revised disclosure; and
 - (c) reference to the information required to be disclosed in accordance with subclause (4);
- (4) include in the revised disclosure, near to where the effected information is disclosed, a description of the amendment that is sufficient for interested **persons** to understand the effect of the amendment on the disclosure; and
- (5) **publicly disclose** the revised disclosure.

2.12.4 Information, disclosed in accordance with any requirement of this determination, that refers to information previously disclosed must-

- (1) where a disclosure has been made in accordance with clauses 2.12.2 or 2.12.3, be consistent with the information disclosed under clauses 2.12.2 or 2.12.3 ; or
- (2) in all other instances, be consistent with the original disclosure.

2.13 TRANSITIONAL PROVISIONS

Transitional AMP requirements for MDL

2.13.1 Notwithstanding any requirements set out in clauses 2.6.1, 2.6.2, 2.6.3, and 2.6.4, the following transitional provision applies to **MDL** in respect of each **disclosure year** before and during the first **DPP regulatory period**-

- (1) If **MDL** has not **publicly disclosed** an **AMP** under clause 2.6.1 then **MDL** may elect to-
 - (a) not comply with clauses 2.6.1, and 2.6.2 in the current **disclosure year**; and
 - (b) complete and **publicly disclose** before the start of the **disclosure year** a **transitional AMP** that meets the requirements of subclause (2);
- (2) The **transitional AMP** must-
 - (a) relate to the **gas transmission services** supplied by the **GTB**;
 - (b) be identifiable as a **transitional AMP** prepared pursuant to clause 2.13.1 of this determination;
 - (c) include the minimum requirements set out in subclause (3);
 - (d) include the forecast information set out in clause 2.6.5;
 - (e) provide an assessment of transmission capacity as set out in clause 8 of Attachment A;
 - (f) provide the information related to legislative requirements as set out in subclause 3.6 of Attachment A;

- (g) include the Report on Asset Management Maturity set out in Schedule 13;
 - (h) identify where the **GTB** considers the **AMP** does not yet conform to the requirements in clause 2.6.1, and set out the actions the **GTB** is taking to ensure the **AMP** will conform before the end of the first **DPP regulatory period**;
 - (i) identify any actions the **GTB** has completed in order to conform to the requirements in clause 2.6.1;
- (3) The **transitional AMP** must include the following-
- (a) a summary that provides a brief overview of the contents and highlights information that the **GTB** considers significant;
 - (b) details of the background and objectives of the **GTB's** asset management and planning processes;
 - (c) details of the **AMP planning period**, which must cover at least a projected period of 10 years commencing with the **disclosure year** following the date on which the **AMP** is required to be disclosed;
 - (d) the date that it was approved by the **directors**;
 - (e) a description of stakeholder interests, as set out in subclause 3.7 of Attachment A;
 - (f) a description of the accountabilities and responsibilities for asset management, as set out in subclause 3.8 of Attachment A;
 - (g) an overview of asset management strategy and delivery;
 - (h) an overview of systems and information management data;
 - (i) an overview of asset management documentation, controls and review processes;
 - (j) details of the assets covered;
 - (k) a clear identification or definition of a set of asset management performance indicators;

- (l) a description of **network** development plans and lifecycle management processes, covering material projects and programmes across the planning period;
- (m) details of risk policies, assessment and mitigation.

Sue Begg, *Deputy Chair*

Dated at Wellington this day of 2015.

COMMERCE COMMISSION

Attachment A ASSET MANAGEMENT PLANS

This attachment sets out the mandatory disclosure requirements with respect to AMPs. The text in italics provides a commentary on those requirements. The purpose of the commentary is to provide guidance on the expected content of disclosed AMPs. The commentary has been prepared on the basis that GTBs will implement best practice asset management processes.

AMP design

1. The core elements of asset management-
 - 1.1 A focus on measuring **network** performance, and managing the assets to achieve service targets;
 - 1.2 Monitoring and continuously improving asset management practices;
 - 1.3 Close alignment with corporate vision and strategy;
 - 1.4 That asset management is driven by clearly defined strategies, business objectives and service level targets;
 - 1.5 That responsibilities and accountabilities for asset management are clearly assigned;
 - 1.6 An emphasis on knowledge of what assets are owned and why, the location of the assets and the condition of the assets;
 - 1.7 An emphasis on optimising asset utilisation and performance;
 - 1.8 That a total life cycle approach should be taken to asset management;
 - 1.9 That the use of 'non-network' solutions and demand management techniques as alternatives to asset acquisition is considered.
2. The disclosure requirements are designed to produce **AMPs** that—
 - 2.1 Are based on, but are not limited to, the core elements of asset management identified in clause 1;
 - 2.2 Are clearly documented and made available to all stakeholders;
 - 2.3 Contain sufficient information to allow interested **persons** to make an informed judgement about the extent to which the **GTB's** asset management processes meet best practice criteria and outcomes are consistent with outcomes produced in competitive markets;
 - 2.4 Specifically support the achievement of disclosed service level targets;
 - 2.5 Emphasise knowledge of the performance and risks of assets and identify opportunities to improve performance and provide a sound basis for ongoing risk assessment;

- 2.6 Consider the mechanics of delivery including resourcing;
- 2.7 Consider the organisational structure and capability necessary to deliver the **AMP**;
- 2.8 Consider the organisational and contractor competencies and any training requirements;
- 2.9 Consider the systems, integration and information management necessary to deliver the plans;
- 2.10 To the extent practical, use unambiguous and consistent definitions of asset management processes and terminology consistent with the terms used in this attachment to enhance comparability of asset management practices over time and between **GTBs**; and
- 2.11 Promote continual improvements to asset management practices.

*Disclosing an **AMP** does not constrain a **GTB** from managing its assets in a way that differs from the **AMP** if circumstances change after preparing the **AMP** or if the **GTB** adopts improved asset management practices.*

Contents of the AMP

3. The **AMP** must include the following-
 - 3.1 A summary that provides a brief overview of the contents and highlights information that the **GTB** considers significant;
 - 3.2 Details of the background and objectives of the **GTB's** asset management and planning processes; and
 - 3.3 A purpose statement which-
 - 3.3.1 makes clear the purpose and status of the **AMP** in the **GTB's** asset management practices. The purpose statement must also include a statement of the objectives of the asset management and planning processes;
 - 3.3.2 states the corporate mission or vision as it relates to asset management;
 - 3.3.3 identifies the documented plans produced as outputs of the annual business planning process adopted by the **GTB**;
 - 3.3.4 states how the different documented plans relate to one another, with particular reference to any plans specifically dealing with asset management; and

- 3.3.5 includes a description of the interaction between the objectives of the **AMP** and other corporate goals, business planning processes, and plans.

*The purpose statement should be consistent with the **GTB's** vision and mission statements and show a clear recognition of stakeholder interest.*

- 3.4 Details of the **AMP planning period**, which must cover at least a projected period of 10 years commencing with the **disclosure year** following the date on which the **AMP** is disclosed.

*Good asset management practice recognises the greater accuracy of short-to-medium term planning, and will allow for this in the **AMP**. The asset management planning information for the second 5 years of the **AMP planning period** need not be presented in the same detail as the first 5 years.*

- 3.5 The date that it was approved by the **directors**.
- 3.6 A description of each of the legislative requirements directly affecting management of the assets, and details of-
 - 3.6.1 how the **GTB** meets the requirements; and
 - 3.6.2 the impact on asset management.
- 3.7 A description of stakeholder interests (owners, **consumers**, etc) which identifies important stakeholders and indicates-
 - 3.7.1 how the interests of stakeholders are identified;
 - 3.7.2 what these interests are;
 - 3.7.3 how these interests are accommodated in asset management practices; and
 - 3.7.4 how conflicting interests are managed.
- 3.8 A description of the accountabilities and responsibilities for asset management on at least 3 levels, including-
 - 3.8.1 governance—a description of the extent of **director** approval required for key asset management decisions and the extent to which asset management outcomes are regularly reported to **directors**;
 - 3.8.2 executive—an indication of how the in-house asset management and planning organisation is structured; and
 - 3.8.3 field operations—an overview of how field operations are managed, including a description of the extent to which field

work is undertaken in-house and the areas where outsourced contractors are used.

- 3.9 All significant assumptions-
- 3.9.1 quantified where possible;
 - 3.9.2 clearly identified in a manner that makes their significance understandable to interested **persons**, and including;
 - 3.9.3 a description of changes proposed where the information is not based on the **GTB's** existing business;
 - 3.9.4 the sources of uncertainty and the potential effect of the uncertainty on the prospective information; and
 - 3.9.5 the price inflator assumptions used to prepare the financial information disclosed in **nominal New Zealand dollars** in the Report on Forecast Capital Expenditure set out in Schedule 11a and the Forecast on Forecast Operational Expenditure set out in Schedule 11b.
- 3.10 A description of the factors that may lead to a material difference between the prospective information disclosed and the corresponding actual information recorded in future disclosures.
- 3.11 An overview of asset management strategy and delivery.

*To support the Report on Asset Management Maturity disclosure and assist interested **persons** to assess the maturity of asset management strategy and delivery, the **AMP** should identify-*

1. *how the asset management strategy is consistent with the **GTB's** other strategy and policies;*
2. *how the asset strategy takes into account the life cycle of the assets;*
3. *the link between the asset management strategy and the **AMP**;*
4. *processes that ensure costs, risks and system performance will be effectively controlled when the **AMP** is implemented.*

- 3.12 An overview of systems and information management data.

*To support the Report on Asset Management Maturity disclosure and assist interested **persons** to assess the maturity of systems and information management, the **AMP** should describe-*

1. *the processes used to identify asset management data requirements that cover the whole of life cycle of the assets;*

2. *the systems used to manage asset data and where the data is used, including an overview of the systems to record asset conditions and operation capacity and to monitor the performance of assets;*
3. *the systems and controls to ensure the quality and accuracy of asset management information; and*
4. *the extent to which these systems, processes and controls are integrated.*

3.13 A statement covering any limitations in the availability or completeness of asset management data and disclose any initiatives intended to improve the quality of this data.

*Discussion of the limitations of asset management data is intended to enhance the transparency of the **AMP** and identify gaps in the asset management system.*

3.14 A description of the processes used within the **GTB** for-

3.14.1 managing routine asset inspections and **network** maintenance;

3.14.2 planning and implementing **network** development projects;
and

3.14.3 measuring **network** performance.

3.15 An overview of asset management documentation, controls and review processes.

*To support the Report on Asset Management Maturity disclosure and assist interested **persons** to assess the maturity of asset management documentation, controls and review processes, the **AMP** should-*

1. *identify the documentation that describes the key components of the asset management system and the links between the key components;*
2. *describe the processes developed around documentation, control and review of key components of the asset management system;*
3. *where the **GTB** outsources components of the asset management system, the processes and controls that the **GTB** uses to ensure efficient and cost effective delivery of its asset management strategy;*
4. *where the **GTB** outsources components of the asset management system, the systems it uses to retain core asset knowledge in-house; and*

5. *audit or review procedures undertaken in respect of the asset management system.*

3.16 An overview of communication and participation processes.

*To support the Report on Asset Management Maturity disclosure and assist interested **persons** to assess the maturity of asset management documentation, controls and review processes, the **AMP** should-*

1. *communicate asset management strategies, objectives, policies and plans to stakeholders involved in the delivery of the asset management requirements, including contractors and consultants; and*
 2. *demonstrate staff engagement in the efficient and cost effective delivery of the asset management requirements.*
4. The **AMP** must present all financial values in **constant price** New Zealand dollars except where specified otherwise.
 5. The **AMP** must be structured and presented in a way that the **GTB** considers will support the purposes of **AMP** disclosure set out in clause 2.6.2 of the determination.

Assets covered

6. The **AMP** must provide details of the assets covered, including—
 - 6.1 A high level map indicating the geographic location of the **network**; and
 - 6.2 A diagram, with any cross-referenced information contained in an accompanying schedule, of each **transmission system** of the pipeline owner showing the following details-
 - 6.2.1 all assets in the system with notations showing-
 - (a) internal, external, or nominal pipe diameters used (identifying whether internal, external, or nominal pipe diameters are used);
 - (b) pipe design pressure ratings;
 - (c) all **stations, main-line valves, intake points and offtake points**, including a unique identifier for each item; and
 - (d) the distance between the items referred to in subclause 6.2.1(c) of this attachment; and
 - 6.2.2 if applicable, the points where a significant change has occurred since the previous disclosure of the information referred to in subclause 6.2.1 of this attachment, including-

- (a) a clear description of every point on the **network** that is affected by the change;
 - (b) a statement as to whether the capacity of the **network**, at the points where the change has occurred, or other points (as the case may be) has increased or decreased or is not affected; and
 - (c) a description of the change.
- 6.3 The **AMP** must describe the **network** assets by providing the following information for each asset category-
 - 6.4 Description and quantity of assets;
 - 6.5 Age profiles; and
 - 6.6 A discussion of the condition of the assets, further broken down into more detailed categories as appropriate. Systemic issues leading to the premature replacement of assets or parts of assets should be discussed.
- 7. The asset categories discussed in subclause 6.3 of this attachment should include at least the following-
 - 7.1 the categories listed in the Report on Forecast Capital Expenditure in Schedule 11a; and
 - 7.2 assets owned by the **GTB** but installed at facilities owned by others.

Transmission system capacity

- 8. The **AMP** must include an assessment of the extent to which physical pipeline capacity is adequate to address the current and anticipated future needs of **consumers**, taking into account expected demands on the **transmission system** and the **GTB's** investment plans.
 - 8.1 The assessment must include the following-
 - 8.1.1 Subject to subclauses 8.2, 8.3 and 8.4, for each **offtake point** with a throughput of gas during the **system peak** flow period of 2,000 GJ or more, an analysis of available capacity, including a description of any potential **transmission system** constraints;
 - 8.1.2 a description of the extent to which the **GTB's** planned investments will affect the constraints identified in subclause 8.1.1 of this attachment; and
 - 8.1.3 a description of the extent to which constraints identified in subclause 8.1.1 of this attachment are impacting upon the quality of service provided to existing **consumers**.

- 8.2 The analysis of available capacity disclosed pursuant to subclause 8.1.1 of this attachment for each **offtake point** must separately assume that the throughput of gas at the other **offtake points** on the **transmission system**-
- 8.2.1 occurred during a recent **system peak** flow period; and
 - 8.2.2 maintain observed trends, eg, growth trends, peak demand factors and trendline adjustments, or other modelled behaviours.
- 8.3 For the purposes of subclause 8.1.1 of this attachment, the **AMP**-
- 8.3.1 may treat **offtake points** that are supplied from a common physical connection to a pipeline as a single **offtake point**, provided that this is noted in the **AMP**;
 - 8.3.2 must describe the modelling methodology and include all material assumptions, including peak flow period throughputs not contributing to capacity constraints (e.g., interruptible flows); physical boundaries of the **transmission system**; sources of data used; modelled representation of the **transmission systems** and its operational constraints;
 - 8.3.3 must identify the recent **system peak** flow periods used in the subclause 8.2.1 analysis, and must either set out the peak flow information specified in subclauses 2.5.2(1)(a) and 2.5.2(1)(b) of this determination, or provide reference to a website at which interested **persons** can readily access the same information at no charge as specified in subclause 2.5.2(4) of this determination; and
 - 8.3.4 must include the name, version and source of any commercial computer software used to simulate the **transmission system**.
- 8.4 If the analysis specified in subclause 8.1.1 of this attachment is posted on a website normally used by the **GTB** for the publication of information and can be readily accessed at no charge by interested **persons**, the analysis may be incorporated in the **AMP** by reference subject to the information being retained on such a website for a period of not less than five years.

Service Levels

9. The **AMP** must clearly identify or define a set of performance indicators for which annual performance targets have been defined. The annual performance targets must be consistent with business strategies and asset management objectives and be provided for each year of the **AMP planning period**. The targets should reflect what is practically achievable given the

current **network** configuration, condition and planned expenditure levels. The targets should be disclosed for each year of the **AMP planning period**.

10. Performance indicators for which targets have been defined in clause 9 must include the DPP requirements required under the price quality path determination applying to the regulatory assessment period in which the next **disclosure year** falls.

Performance indicators for which targets have been defined in clause 9 should also include-

1. ***consumer** oriented indicators that preferably differentiate between different **consumer** groups; and*
 2. *indicators of asset performance, asset efficiency and effectiveness, and service efficiency, such as technical and financial performance indicators related to the efficiency of asset utilisation and operation.*
11. The **AMP** must describe the basis on which the target level for each performance indicator was determined. Justification for target levels of service includes **consumer** expectations or demands, legislative, regulatory, and other stakeholders' requirements or considerations. The **AMP** should demonstrate how stakeholder needs were ascertained and translated into service level targets.
12. Targets should be compared to historic values where available to provide context and scale to the reader.
13. Where forecast expenditure is expected to materially affect performance against a target defined in clause 9, the target should be consistent with the expected change in the level of performance.

*Performance against target must be monitored for disclosure in the Evaluation of Performance section of each subsequent **AMP**.*

14. **AMPs** must provide a detailed description of **network** development plans, including—
- 14.1 A description of the planning criteria and assumptions for **network** development.

*Planning criteria for **network** developments should be described logically and succinctly. Where probabilistic or scenario-based planning techniques are used, this should be indicated and the methodology briefly described.*
 - 14.2 A description of strategies or processes (if any) used by the **GTB** that promote cost efficiency including through the use of standardised assets and designs;

The use of standardised designs may lead to improved cost efficiencies. This section should discuss-

1. *the categories of assets and designs that are standardised; and*
2. *the approach used to identify standard designs.*

- 14.3 A description of the criteria used to determine the capacity of new equipment for different types of assets or different parts of the **network**;

*The criteria described should relate to the **GTB's** philosophy in managing planning risks.*

- 14.4 A description of the process and criteria used to prioritise **network** development projects and how these processes and criteria align with the overall corporate goals and vision;

14.4.1 Details of demand forecasts, the basis on which they are derived, and the specific **network** locations where constraints are expected due to forecast increases in demand;

14.4.2 Explain the load forecasting methodology and indicate all the factors used in preparing the load estimates;

14.4.3 Provide separate forecasts to at least off-take points covering at least a minimum 5 year forecast period. Discuss how uncertain but substantial individual projects/developments that affect load are taken into account in the forecasts, making clear the extent to which these uncertain increases in demand are reflected in the forecasts; and

14.4.4 Identify any **network** or equipment constraints that may arise due to the anticipated growth in demand during the **AMP planning period**.

- 14.5 Analysis of the significant **network** level development options identified and details of the decisions made to satisfy and meet target levels of service, including-

14.5.1 the reasons for choosing a selected option for projects where decisions have been made;

14.5.2 the alternative options considered for projects that are planned to start in the next 5 years; and

14.5.3 consideration of planned innovations that improve efficiencies within the **network**, such as improved utilisation, extended asset lives, and deferred investment.

14.6 A description and identification of the **network** development programme and actions to be taken, including associated expenditure projections. The **network** development plan must include-

14.6.1 a detailed description of the material projects and a summary description of the non-material projects currently underway or planned to start within the next 12 months;

14.6.2 a summary description of the programmes and projects planned for the following 4 years (where known); and

14.6.3 an overview of the material projects being considered for the remainder of the **AMP planning period**.

*For projects included in the **AMP** where decisions have been made, the reasons for choosing the selected option should be stated which should include how target levels of service will be impacted. For other projects planned to start in the next 5 years, alternative options should be discussed.*

14.7 A description of the extent to which the disclosed **network** development plans meet the loads anticipated in current gas demand forecasts prepared by the Gas Industry Company or any Government department or agency.

Lifecycle Asset Management Planning (Maintenance and Renewal)

15. The **AMP** must provide a detailed description of the lifecycle asset management processes, including—

15.1 The key drivers for maintenance planning and assumptions;

15.2 Identification of **routine and corrective maintenance and inspection** policies and programmes and actions to be taken for each asset category, including associated expenditure projections. This must include-

15.2.1 the approach to inspecting and maintaining each category of assets, including a description of the types of inspections, tests and condition monitoring carried out and the intervals at which this is done;

15.2.2 any systemic problems identified with any particular asset types and the proposed actions to address these problems; and

15.2.3 budgets for maintenance activities broken down by asset category for the **AMP planning period**.

- 15.3 Identification of **asset replacement and renewal** policies and programmes and actions to be taken for each asset category, including associated expenditure projections. This must include-
- 15.3.1 the processes used to decide when and whether an asset is replaced or refurbished, including a description of the factors on which decisions are based;
 - 15.3.2 a description of the projects currently underway or planned for the next 12 months;
 - 15.3.3 a summary of the projects planned for the following 4 years (where known); and
 - 15.3.4 an overview of other work being considered for the remainder of the **AMP planning period**.
- 15.4 The asset categories discussed in subclauses 15.2 and 15.3 should include at least the categories in clause 7.

Non-Network Development, Maintenance and Renewal

16. **AMPs** must provide a summary description of material non-network development, maintenance and renewal plans, including—
- 16.1 a description of **non-network assets**;
 - 16.2 development, maintenance and renewal policies that cover them;
 - 16.3 a description of material **capital expenditure** projects (where known) planned for the next 5 years; and
 - 16.4 a description of material maintenance and renewal projects (where known) planned for the next 5 years.

Risk Management

17. **AMPs** must provide details of risk policies, assessment, and mitigation, including—
- 17.1 methods, details and conclusions of risk analysis;
 - 17.2 strategies used to identify areas of the **network** that are vulnerable to high impact low probability events and a description of the resilience of the **network** and asset management systems to such events; and
 - 17.3 a description of the policies to mitigate or manage the risks of events identified in subclause 17.2 of this attachment;
18. Details of emergency response and contingency plans.

*Asset risk management forms a component of a **GTB**'s overall risk management plan or policy, focusing on the risks to assets and maintaining service levels. **AMPs** should demonstrate how the **GTB** identifies and assesses asset related risks and describe the main risks within the **network**. The focus should be on credible low-probability, high-impact risks. Risk evaluation may highlight the need for specific development projects or maintenance programmes. Where this is the case, the resulting projects or actions should be discussed, linking back to the development plan or maintenance programme.*

Evaluation of performance

19. **AMPs** must provide details of performance measurement, evaluation, and improvement, including—
- 19.1 A review of progress against plan, both physical and financial;
1. *Referring to the most recent disclosures made under section 2.6 of this determination, discussing any significant differences and highlighting reasons for substantial variances;*
 2. *Commenting on the progress of development projects against that planned in the previous **AMP** and provide reasons for substantial variances along with any significant construction or other problems experienced; and*
 3. *Commenting on progress against maintenance initiatives and programmes and discuss the effectiveness of these programmes noted;*
- 19.2 An evaluation and comparison of actual service level performance against targeted performance.
- In particular, comparing the actual and target service level performance for all the targets discussed under the 'service levels' section of the **AMP** over the previous 5 years and explain any significant variances;*
- 19.3 An evaluation and comparison of the results of the asset management maturity assessment disclosed in the Report on Asset Management Maturity set out in Schedule 13 against relevant objectives of the **GTB**'s asset management and planning processes; and
- 19.4 An analysis of gaps identified in subclauses 19.2 and 19.3. Where significant gaps exist (not caused by one-off factors), the **AMP** must describe any planned initiatives to address the situation.

Capability to deliver

20. **AMPs** must describe the processes used by the **GTB** to ensure that-

- 20.1 The **AMP** is realistic and the objectives set out in the plan can be achieved; and
- 20.2 The organisation structure and the processes for authorisation and business capabilities will support the implementation of the **AMP** plans.

Schedule 1 Analytical Ratios

<p>Company Name</p> <p>For Year Ended</p>																																		
<p>SCHEDULE 1: ANALYTICAL RATIOS</p> <p>This schedule calculates expenditure, revenue and service ratios from the information disclosed. The disclosed ratios may vary for reasons that are company specific and, as a result, must be interpreted with care. The Commerce Commission will publish a summary and analysis of information disclosed in accordance with the ID determination. This will include information disclosed in accordance with this and other schedules, and information disclosed under the other requirements of the determination.</p> <p>This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.</p>																																		
7	<p>1 (i): Expenditure Metrics</p>																																	
8	<table border="1"> <tr> <td style="text-align: center;">Quantity of gas delivered (\$ per TJ)</td> <td style="text-align: center;">System length (\$ per km)</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> </table>	Quantity of gas delivered (\$ per TJ)	System length (\$ per km)	-	-	-	-	-	-																									
Quantity of gas delivered (\$ per TJ)	System length (\$ per km)																																	
-	-																																	
-	-																																	
-	-																																	
9	Operational expenditure																																	
10	Network																																	
11	Non-network																																	
12	Expenditure on assets																																	
13	Network																																	
14	Non-network																																	
15	-																																	
16	-																																	
17	-																																	
18	-																																	
19	-																																	
20	-																																	
21	-																																	
22	-																																	
23	-																																	
24	-																																	
25	-																																	
26	-																																	
27	-																																	
28	-																																	
29	-																																	
30	-																																	
31	-																																	
32	-																																	
33	-																																	
7	<p>1 (ii): Service Intensity Measures</p>																																	
8	<table border="1"> <tr> <td style="text-align: center;">Quantity of gas delivered (\$ per TJ)</td> <td style="text-align: center;">System length (\$ per km)</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> </table>	Quantity of gas delivered (\$ per TJ)	System length (\$ per km)	-	-	-	-	-	-																									
Quantity of gas delivered (\$ per TJ)	System length (\$ per km)																																	
-	-																																	
-	-																																	
-	-																																	
9	Operational expenditure																																	
10	Network																																	
11	Non-network																																	
12	Expenditure on assets																																	
13	Network																																	
14	Non-network																																	
15	-																																	
16	-																																	
17	-																																	
18	-																																	
19	-																																	
20	-																																	
21	-																																	
22	-																																	
23	-																																	
24	-																																	
25	-																																	
26	-																																	
27	-																																	
28	-																																	
29	-																																	
30	-																																	
31	-																																	
32	-																																	
33	-																																	
7	<p>1 (iii): Composition of Revenue Requirement</p>																																	
8	<table border="1"> <tr> <td style="text-align: center;">Operational expenditure</td> <td style="text-align: center;">%</td> <td style="text-align: center;">of revenue</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> </table>	Operational expenditure	%	of revenue	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operational expenditure	%	of revenue																																
-	-	-																																
-	-	-																																
-	-	-																																
-	-	-																																
-	-	-																																
-	-	-																																
-	-	-																																
-	-	-																																
-	-	-																																
-	-	-																																
9	Operational expenditure																																	
10	Network																																	
11	Non-network																																	
12	Expenditure on assets																																	
13	Network																																	
14	Non-network																																	
15	-																																	
16	-																																	
17	-																																	
18	-																																	
19	-																																	
20	-																																	
21	-																																	
22	-																																	
23	-																																	
24	-																																	
25	-																																	
26	-																																	
27	-																																	
28	-																																	
29	-																																	
30	-																																	
31	-																																	
32	-																																	
33	-																																	
7	<p>1 (iv): Reliability</p>																																	
8	<table border="1"> <tr> <td style="text-align: center;">Quantity of gas delivered (\$ per TJ)</td> <td style="text-align: center;">System length (\$ per km)</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> </table>	Quantity of gas delivered (\$ per TJ)	System length (\$ per km)	-	-	-	-	-	-																									
Quantity of gas delivered (\$ per TJ)	System length (\$ per km)																																	
-	-																																	
-	-																																	
-	-																																	
9	Operational expenditure																																	
10	Network																																	
11	Non-network																																	
12	Expenditure on assets																																	
13	Network																																	
14	Non-network																																	
15	-																																	
16	-																																	
17	-																																	
18	-																																	
19	-																																	
20	-																																	
21	-																																	
22	-																																	
23	-																																	
24	-																																	
25	-																																	
26	-																																	
27	-																																	
28	-																																	
29	-																																	
30	-																																	
31	-																																	
32	-																																	
33	-																																	

Schedule 2 Report on Return on Investment

		Company Name <input type="text"/>		
		For Year Ended <input type="text"/>		
SCHEDULE 2: REPORT ON RETURN ON INVESTMENT				
<p>This schedule requires information on the Return on Investment (ROI) for the GTB relative to the Commerce Commission's estimates of post tax WACC and vanilla WACC. GTBs must calculate their ROI based on a monthly basis if required by clause 2.3.3 of the ID determination or if they elect to. If a GTB makes this election, information supporting this calculation must be provided in 2(iii). GTBs must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.</p>				
sch ref				
7	2(i): Return on Investment	CY-2	CY-1	Current Year CY
8				
9	Post tax WACC	%	%	%
10	ROI – comparable to a post tax WACC	<input type="text"/>	<input type="text"/>	<input type="text"/>
11				
12	Mid-point estimate of post tax WACC	<input type="text"/>	<input type="text"/>	<input type="text"/>
13	25th percentile estimate	<input type="text"/>	<input type="text"/>	<input type="text"/>
14	75th percentile estimate	<input type="text"/>	<input type="text"/>	<input type="text"/>
15				
16				
17	Vanilla WACC			
18	ROI – comparable to a vanilla WACC	<input type="text"/>	<input type="text"/>	<input type="text"/>
19				
20	Mid-point estimate of vanilla WACC	<input type="text"/>	<input type="text"/>	<input type="text"/>
21	25th percentile estimate	<input type="text"/>	<input type="text"/>	<input type="text"/>
22	75th percentile estimate	<input type="text"/>	<input type="text"/>	<input type="text"/>
23				
24				
25	2(ii): Information Supporting the ROI			
26	Total opening RAB value	<input type="text"/>	<input type="text"/>	<input type="text"/>
27	Opening RIV		<input type="text"/>	
28				
29	Line charge revenue		<input type="text"/>	
30				
31	Expenses cash outflow	<input type="text"/>		
32	less Assets commissioned	<input type="text"/>		
33	plus Asset disposals	<input type="text"/>		
34	less Regulatory tax allowance	<input type="text"/>		
35	less Other regulated income	<input type="text"/>		
36	Mid-year net cash outflows		<input type="text"/>	
37				
38	Term credit spread differential allowance		<input type="text"/>	
39				
40	Total closing RAB value	<input type="text"/>		
41	less Adjustment resulting from asset allocation	<input type="text"/>		
42	less Lost and found assets adjustment	<input type="text"/>		
43	Closing RIV		<input type="text"/>	
44				
45	ROI – comparable to a vanilla WACC			<input type="text"/>
46				
47	Leverage (%)			<input type="text"/>
48	Cost of debt assumption (%)			<input type="text"/>
49	Corporate tax rate (%)			<input type="text"/>
50				
51	ROI – comparable to a post tax WACC			<input type="text"/>
52				

Company Name
 For Year Ended

SCHEDULE 2: REPORT ON RETURN ON INVESTMENT (cont)

sch ref

2(iii): Information Supporting the Monthly ROI

	Opening RIV						
							-
		(\$000)					
	Line charge revenue	Expenses cash outflow	Assets commissioned	Asset disposals	Other regulated income	Monthly net cash outflows	
58							
59	Month 1						-
60	Month 2						-
61	Month 3						-
62	Month 4						-
63	Month 5						-
64	Month 6						-
65	Month 7						-
66	Month 8						-
67	Month 9						-
68	Month 10						-
69	Month 11						-
70	Month 12						-
71	Total	-	-	-	-	-	-
72							
73	Regulatory tax allowance						-
74							
75	Term credit spread differential allowance						-
76							
77	Closing RIV						-
78							
79							
80	Monthly ROI – comparable to a vanilla WACC						N/A
81							
82	Monthly ROI – comparable to a post tax WACC						N/A
83							
84	2(iv): Year-end ROI rates for comparison purposes						
85							
86	Year-end ROI – comparable to a vanilla WACC						-
87							
88	Year-end ROI – comparable to a post tax WACC						-
89							
90							
91	2(v): Estimated Impact of Financial Incentives on ROI						
92							
93	Net recoverable costs allowed under incremental rolling incentive scheme						-
94	Financial incentives						-
95							
96	ROI – comparable to a vanilla WACC (excluding financial incentives)						-
97							
98	Estimated impact of financial incentives on ROI						-

* The year-end ROI values are comparable to the ROI reported in pre 2012 disclosures by GTBs and do not represent the Commission's current view on ROI.

Schedule 3 Report on Regulatory Profit

		Company Name <input type="text"/>
		For Year Ended <input type="text"/>
SCHEDULE 3: REPORT ON REGULATORY PROFIT		
<p>This schedule requires information on the calculation of regulatory profit for the GTB for the disclosure year. GTBs must complete all sections and must provide explanatory comment on their regulatory profit in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.</p>		
sch ref		(\$000)
7	3(i): Regulatory Profit	
8	Income	
9	Line charge revenue	<input type="text"/>
10	plus Gains / (losses) on asset disposals	<input type="text"/>
11	plus Other regulated income (other than gains / (losses) on asset disposals)	<input type="text"/>
12		
13	Total regulatory income	<input type="text"/>
14	Expenses	
15	less Operational expenditure	<input type="text"/>
16		
17	less Pass through and recoverable costs recognised in information disclosure	<input type="text"/>
18		
19	Operating surplus / (deficit)	<input type="text"/>
20		
21	less Total depreciation	<input type="text"/>
22		
23	plus Total revaluations	<input type="text"/>
24		
25	Regulatory profit / (loss) before tax	<input type="text"/>
26		
27	less Term credit spread differential allowance	<input type="text"/>
28		
29	less Regulatory tax allowance	<input type="text"/>
30		
31	Regulatory profit / (loss)	<input type="text"/>
32		

Note: sub-total regulatory profit / (loss) before tax removed

		Company Name <input type="text"/>	
		For Year Ended <input type="text"/>	
SCHEDULE 3: REPORT ON REGULATORY PROFIT (cont)			
33	3(ii): Pass through and Recoverable Costs recognised in Information Disclosure	(\$000)	
34	Pass through costs		
35	Rates	<input type="text"/>	
36	Commerce Act levies	<input type="text"/>	
37	Industry Levies	<input type="text"/>	
38	CPP specified pass through costs	<input type="text"/>	
39	Recoverable costs recognised in information disclosure		
40	Balancing gas costs	<input type="text"/>	
41	Pass through and recoverable costs recognised in information disclosure		<input type="text"/>
42			
43	3(iii): Incremental Rolling Incentive Scheme	(\$000)	
44		CY-1	CY
45			
46	Allowed controllable opex	<input type="text"/>	<input type="text"/>
47	Actual controllable opex	<input type="text"/>	<input type="text"/>
48			
49	Incremental change in year		<input type="text"/>
50			
51		Previous years' incremental change	Previous years' incremental change adjusted for inflation
52	CY-5 [year]	<input type="text"/>	<input type="text"/>
53	CY-4 [year]	<input type="text"/>	<input type="text"/>
54	CY-3 [year]	<input type="text"/>	<input type="text"/>
55	CY-2 [year]	<input type="text"/>	<input type="text"/>
56	CY-1 [year]	<input type="text"/>	<input type="text"/>
57	Net incremental rolling incentive scheme		<input type="text"/>
58			
59	Net recoverable costs allowed under incremental rolling incentive scheme		<input type="text"/>
60	3(iv): Merger and Acquisition Costs		
61	Merger and acquisition expenditure		<input type="text"/>
62	Provide commentary on the benefits of merger and acquisition expenditure to the gas transmission business, including required disclosures in accordance with section 2.7, in Schedule 14 (Mandatory Explanatory Notes)		
63	3(v): Other Disclosures		
64	Self-insurance allowance	<input type="text"/>	

SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD) (cont)	
58	Company Name For Year Ended
59	CPH _t
60	CPH _{t-1}
61	Revaluation rate (%)
62	Total opening RAB value
63	Less
64	Opening value of fully depreciated, disposed and lost assets
65	Total opening RAB value subject to revaluation
66	Total revaluations
67	Works under construction—preceding disbursement year
68	plus
69	Capital expenditure
70	less
71	Assets commissioned
72	plus
73	Adjustment resulting from asset allocation
74	Works under construction—current disbursement year
75	plus
76	Highest rate of capitalised finance applied
77	Total RAB
78	Unallocated works under construction
79	Allocated works under construction
80	Total RAB

Schedule 5a Report on Regulatory Tax Allowance

		Company Name	<input type="text"/>
		For Year Ended	<input type="text"/>
SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE			
This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit).			
GTBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes).			
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.			
sch ref			
7	5a(i): Regulatory Tax Allowance		(\$000)
8	Regulatory profit / (loss) before tax		-
9			
10	plus	Total depreciation	<input type="text"/>
11	less	Tax depreciation	<input type="text"/>
12	Permanent differences:		
13	plus	Income not included in regulatory profit / (loss) before tax but taxable	*
14		Expenditure or loss in regulatory profit / (loss) before tax but not deductible	*
15			
16	less	Income included in regulatory profit / (loss) before tax but not taxable	*
17		Expenditure or loss deductible but not in regulatory profit / (loss) before tax	*
18			-
19	Temporary differences:		
20	plus	Total Revaluations	-
21		Other income not included in regulatory profit / (loss) before tax but taxable	*
22		Expenditure or loss in regulatory profit / (loss) before tax but not deductible	*
23			
24	less	Income included in regulatory profit / (loss) before tax but not taxable	*
25		Expenditure or loss deductible but not in regulatory profit / (loss) before tax	*
26			-
27	less	Notional deductible interest	-
28			-
29		Regulatory taxable income	-
30	less	Utilised tax losses	<input type="text"/>
31		Regulatory net taxable income	-
32			
33		Corporate tax rate (%)	<input type="text"/>
34		Regulatory tax allowance	-
35			
36	* Workings to be provided in Schedule 14		
37			
38			
39	5a(ii): Disclosure of Permanent and Temporary Differences		
40	In Schedule 14, Box 5 and Box 6, provide descriptions and workings of items recorded in the asterisked categories in Schedule 5a(i).		
41			
42	5a(iii): Reconciliation of Tax Losses		(\$000)
43			
44	Opening tax losses		<input type="text"/>
45	plus	Current period tax losses	<input type="text"/>
46	less	Utilised tax losses	<input type="text"/>
47		Closing tax losses	-
48	5a(iv): Regulatory Tax Asset Base Roll-Forward		(\$000)
49			
50	Opening sum of regulatory tax asset values		<input type="text"/>
51	less	Tax depreciation	<input type="text"/>
52	plus	Regulatory tax asset value of assets commissioned	<input type="text"/>
53	less	Regulatory tax asset value of asset disposals	<input type="text"/>
54	plus	Lost and found assets adjustment	<input type="text"/>
55	plus	Adjustment resulting from asset allocation	<input type="text"/>
56	plus	Other adjustments to the RAB tax value	<input type="text"/>
57		Closing sum of regulatory tax asset values	-

Schedule 5b Report on Related Party Transactions

Company Name
 For Year Ended

SCHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS

This schedule provides information on the valuation of related party transactions, in accordance with section 2.3.7 and 2.3.8 of the ID determination. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

7 5b(i): Summary—Related Party Transactions

	(\$000)
8 Total regulatory income	<input style="width: 60px;" type="text"/>
9 Operational expenditure	<input style="width: 60px;" type="text"/>
10 Capital expenditure	<input style="width: 60px;" type="text"/>
11 Market value of asset disposals	<input style="width: 60px;" type="text"/>
12 Other related party transactions	<input style="width: 60px;" type="text"/>

13 5b(ii): Entities Involved in Related Party Transactions

Name of related party	Related party relationship
<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>

* include additional rows if needed

21 5b(iii): Related Party Transactions

Name of related party	Related party transaction Type	Description of transaction	Value of transaction (\$000)	Basis for determining value
<input style="width: 100%; height: 20px;" type="text"/>	(Select one)	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
<input style="width: 100%; height: 20px;" type="text"/>	(Select one)	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
<input style="width: 100%; height: 20px;" type="text"/>	(Select one)	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
<input style="width: 100%; height: 20px;" type="text"/>	(Select one)	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
<input style="width: 100%; height: 20px;" type="text"/>	(Select one)	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
<input style="width: 100%; height: 20px;" type="text"/>	(Select one)	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
<input style="width: 100%; height: 20px;" type="text"/>	(Select one)	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
<input style="width: 100%; height: 20px;" type="text"/>	(Select one)	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
<input style="width: 100%; height: 20px;" type="text"/>	(Select one)	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
<input style="width: 100%; height: 20px;" type="text"/>	(Select one)	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
<input style="width: 100%; height: 20px;" type="text"/>	(Select one)	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
<input style="width: 100%; height: 20px;" type="text"/>	(Select one)	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
<input style="width: 100%; height: 20px;" type="text"/>	(Select one)	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
<input style="width: 100%; height: 20px;" type="text"/>	(Select one)	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
<input style="width: 100%; height: 20px;" type="text"/>	(Select one)	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 60px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>

* include additional rows if needed

Schedule 5c Report on Term Credit Spread Differential Allowance

Company Name

For Year Ended

SCHEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE

This schedule is only to be completed if, as at the date of the most recently published financial statements, the weighted average original tenor of the debt portfolio (both qualifying debt and non-qualifying debt) is greater than five years.

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26

5c(i): Qualifying Debt (may be Commission only)

Issuing party	Issue date	Pricing date	Original tenor (in years)	Coupon rate (%)	Book value at issue date (NZD)	Book value at date of financial statements (NZD)	Term Credit Spread Difference	Cost of executing an interest rate swap	Debt issue cost readjustment
* include additional rows if needed						-	-	-	-

5c(ii): Attribution of Term Credit Spread Differential

Gross term credit spread differential							
Total book value of interest bearing debt							
Leverage			44%				
Average opening and closing RAB values							
Attribution Rate (%)							
Term credit spread differential allowance							

Schedule 5d Report on Cost Allocations

Company Name For Year Ended					
SCHEDULE 5d: REPORT ON COST ALLOCATIONS					
This schedule provides information on the allocation of operational costs. GTBs must provide explanatory comment on their cost allocation in Schedule 1.4 (Mandatory Explanatory Notes), including on the impact of any reclassifications.					
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.					
sch ref	5d(i): Operating Cost Allocations	Value allocated (\$000s)			
		Arm's length deduction	Gas transmission services	Non-gas transmission services	OVARAA allocation increase (\$000s)
7					
8					
9	Service interruptions, incidents and emergencies				
10	Directly attributable				
11	Not directly attributable				
12	Total attributable to regulated service				
13					
14	Routine and corrective maintenance and inspection				
15	Directly attributable				
16	Not directly attributable				
17	Total attributable to regulated service				
18					
19	Asset replacement and renewal				
20	Directly attributable				
21	Not directly attributable				
22	Total attributable to regulated service				
23					
24	Compressor fuel				
25	Directly attributable				
26	Not directly attributable				
27	Total attributable to regulated service				
28					
29	Land management and associated activity				
30	Directly attributable				
31	Not directly attributable				
32	Total attributable to regulated service				
33					
34	System operations				
35	Directly attributable				
36	Not directly attributable				
37	Total attributable to regulated service				
38					
39	Network support				
40	Directly attributable				
41	Not directly attributable				
42	Total attributable to regulated service				
43					
44	Business support				
45	Directly attributable				
46	Not directly attributable				
47	Total attributable to regulated service				
48					
49	Operating costs directly attributable				
50	Operating costs not directly attributable				
51	Operational expenditure				

SCHEDULE 5d: REPORT ON COST ALLOCATIONS (cont)		Company Name For Year Ended
53	sch ref	
54	5d(ii): Other Cost Allocations	
55	Pass through and recoverable costs	
56	Pass through costs	
57	Directly attributable	
58	Not directly attributable	
59	Total attributable to regulated service	
60	Recoverable costs	
61	Directly attributable	
62	Not directly attributable	
63	Total attributable to regulated service	
64	NOTES TO THE REPORT	
65	5d(iii): Changes in Cost Allocations* †	
66		
67	Change in cost allocation 1	
68	Cost category	
69	Original allocator or line items	
70	New allocator or line items	
71		
72	Rationale for change	
73		
74		
75		
76	Change in cost allocation 2	
77	Cost category	
78	Original allocator or line items	
79	New allocator or line items	
80		
81	Rationale for change	
82		
83		
84	Change in cost allocation 3	
85	Cost category	
86	Original allocator or line items	
87	New allocator or line items	
88		
89	Rationale for change	
90		
91		

* a change in cost allocation must be completed for each allocator or component change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or component.

† include additional rows if needed

SCHEDULE 5e: REPORT ON ASSET ALLOCATIONS (cont)

5e(ii): Changes in Asset Allocations †**

Company Name
For Year Ended

			CY-1	Current Year (CY)	
49	Change in asset value allocation 1				
50	Asset category				
51	Original allocator or line items				
52	New allocator or line items				
53	Rationale for change				
54					
55					
56					
57					
58					
59	Change in asset value allocation 2				
60	Asset category				
61	Original allocator or line items				
62	New allocator or line items				
63	Rationale for change				
64					
65					
66					
67					
68	Change in asset value allocation 3				
69	Asset category				
70	Original allocator or line items				
71	New allocator or line items				
72	Rationale for change				
73					
74					
75	<p>* a change in asset allocation must be completed for each allocator or component change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or component. † include additional rows if needed.</p>				

Schedule 5f Report Supporting Cost Allocations

Company Name
 For Year Ended

SCHEDULE 5f: REPORT SUPPORTING COST ALLOCATIONS

This schedule requires additional detail on the cost allocation methodology applied in allocating asset values that are not directly attributable, to support the information provided in Schedule 5d (Cost allocations). This schedule is not required to be publicly disclosed, but must be disclosed to the Commission.
 This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41

Have costs been allocated in aggregate using ACAM in accordance with clause 2.1.1(3) of the IM Determination?

[Select one]

Line item*	Allocation methodology type	Allocator	Allocator type	Allocator Metric (%)		Value allocated (\$000)			OVABAA allocation increase (\$000)
				Gas transmission services	Non-gas transmission services	Arm's length deduction	Gas transmission services	Non-gas transmission services	
Service interruptions, incidents and emergencies									
Insert cost description	e.g. ABAA	Allocator 1	[Select one]						-
Insert cost description	e.g. ABAA	Allocator 2	[Select one]						-
Insert cost description	e.g. ABAA	Allocator 3	[Select one]						-
Insert cost description	e.g. ABAA	Allocator 4	[Select one]						-
Not directly attributable									
Routine and corrective maintenance and inspection									
Insert cost description	e.g. ABAA	Allocator 1	[Select one]						-
Insert cost description	e.g. ABAA	Allocator 2	[Select one]						-
Insert cost description	e.g. ABAA	Allocator 3	[Select one]						-
Insert cost description	e.g. ABAA	Allocator 4	[Select one]						-
Not directly attributable									
Asset replacement and renewal									
Insert cost description	e.g. ABAA	Allocator 1	[Select one]						-
Insert cost description	e.g. ABAA	Allocator 2	[Select one]						-
Insert cost description	e.g. ABAA	Allocator 3	[Select one]						-
Insert cost description	e.g. ABAA	Allocator 4	[Select one]						-
Not directly attributable									
Compressor fuel									
Insert cost description	e.g. ABAA	Allocator 1	[Select one]						-
Insert cost description	e.g. ABAA	Allocator 2	[Select one]						-
Insert cost description	e.g. ABAA	Allocator 3	[Select one]						-
Insert cost description	e.g. ABAA	Allocator 4	[Select one]						-
Not directly attributable									
Land management and associated activity									
Insert cost description	e.g. ABAA	Allocator 1	[Select one]						-
Insert cost description	e.g. ABAA	Allocator 2	[Select one]						-
Insert cost description	e.g. ABAA	Allocator 3	[Select one]						-
Insert cost description	e.g. ABAA	Allocator 4	[Select one]						-
Not directly attributable									

Company Name
 For Year Ended

SCHEDULE 5f: REPORT SUPPORTING COST ALLOCATIONS (cont)

sch ref										
49	System operations									
50	Insert cost description	e.g. ABAA	Allocator 1	[Select one]						-
51	Insert cost description	e.g. ABAA	Allocator 2	[Select one]						-
52	Insert cost description	e.g. ABAA	Allocator 3	[Select one]						-
53	Insert cost description	e.g. ABAA	Allocator 4	[Select one]						-
54	Not directly attributable									
55	Network support									
56	Insert cost description	e.g. ABAA	Allocator 1	[Select one]						-
57	Insert cost description	e.g. ABAA	Allocator 2	[Select one]						-
58	Insert cost description	e.g. ABAA	Allocator 3	[Select one]						-
59	Insert cost description	e.g. ABAA	Allocator 4	[Select one]						-
60	Not directly attributable									
61	Business support									
62	Insert cost description	e.g. ABAA	Allocator 1	[Select one]						-
63	Insert cost description	e.g. ABAA	Allocator 2	[Select one]						-
64	Insert cost description	e.g. ABAA	Allocator 3	[Select one]						-
65	Insert cost description	e.g. ABAA	Allocator 4	[Select one]						-
66	Not directly attributable									
67	Operating costs not directly attributable									
68										
69	Pass through and recoverable costs									
70	Pass through costs									
71	Insert cost description	e.g. ABAA	Allocator 1	[Select one]						-
72	Insert cost description	e.g. ABAA	Allocator 2	[Select one]						-
73	Insert cost description	e.g. ABAA	Allocator 3	[Select one]						-
74	Insert cost description	e.g. ABAA	Allocator 4	[Select one]						-
75	Not directly attributable									
76	Recoverable costs									
77	Insert cost description	e.g. ABAA	Allocator 1	[Select one]						-
78	Insert cost description	e.g. ABAA	Allocator 2	[Select one]						-
79	Insert cost description	e.g. ABAA	Allocator 3	[Select one]						-
80	Insert cost description	e.g. ABAA	Allocator 4	[Select one]						-
81	Not directly attributable									
	* include additional rows if needed									

Schedule 5g Report Supporting Asset Allocations

Company Name
 For Year Ended

SCHEDULE 5g: REPORT SUPPORTING ASSET ALLOCATIONS

This schedule requires additional detail on the asset allocation methodology applied in allocating asset values that are not directly attributable, to support the information provided in Schedule 5e (Report on Asset Allocations). This schedule is not required to be publicly disclosed, but must be disclosed to the Commission. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

6	Have assets been allocated in aggregate using ACAM in accordance with clause 2.1.1(3) of the IM Determination? <input type="text" value="[Select one]"/>											
9					Allocator Metric (%)			Value allocated (\$000)				
10	Line Item*	Allocation methodology type	Allocator	Allocator type	Gas transmission services	Non-gas transmission services	Arm's length deduction	Gas transmission services	Non-gas transmission services	Total	OVABAA allocation increase (\$000)	
11	Pipes											
12	Insert asset description	e.g. ABAA	Allocator 1	[Select one]							-	
13	Insert asset description	e.g. ABAA	Allocator 2	[Select one]							-	
14	Insert asset description	e.g. ABAA	Allocator 3	[Select one]							-	
15	Insert asset description	e.g. ABAA	Allocator 4	[Select one]							-	
16	Not directly attributable											
17	Stations											
18	Insert asset description	e.g. ABAA	Allocator 1	[Select one]							-	
19	Insert asset description	e.g. ABAA	Allocator 2	[Select one]							-	
20	Insert asset description	e.g. ABAA	Allocator 3	[Select one]							-	
21	Insert asset description	e.g. ABAA	Allocator 4	[Select one]							-	
22	Not directly attributable											
23	Compressors											
24	Insert asset description	e.g. ABAA	Allocator 1	[Select one]							-	
25	Insert asset description	e.g. ABAA	Allocator 2	[Select one]							-	
26	Insert asset description	e.g. ABAA	Allocator 3	[Select one]							-	
27	Insert asset description	e.g. ABAA	Allocator 4	[Select one]							-	
28	Not directly attributable											

Company Name
 For Year Ended

SCHEDULE 5g: REPORT SUPPORTING ASSET ALLOCATIONS (cont)

sch ref

35	Main-line valves										
36	Insert asset description	e.g. ABAA	Allocator 1	[Select one]							-
37	Insert asset description	e.g. ABAA	Allocator 2	[Select one]							-
38	Insert asset description	e.g. ABAA	Allocator 3	[Select one]							-
39	Insert asset description	e.g. ABAA	Allocator 4	[Select one]							-
40	Not directly attributable										-
41	Special crossings										
42	Insert asset description	e.g. ABAA	Allocator 1	[Select one]							-
43	Insert asset description	e.g. ABAA	Allocator 2	[Select one]							-
44	Insert asset description	e.g. ABAA	Allocator 3	[Select one]							-
45	Insert asset description	e.g. ABAA	Allocator 4	[Select one]							-
46	Not directly attributable										-
47	Other network assets										
48	Insert asset description	e.g. ABAA	Allocator 1	[Select one]							-
49	Insert asset description	e.g. ABAA	Allocator 2	[Select one]							-
50	Insert asset description	e.g. ABAA	Allocator 3	[Select one]							-
51	Insert asset description	e.g. ABAA	Allocator 4	[Select one]							-
52	Not directly attributable										-
53	Non-network assets										
54	Insert asset description	e.g. ABAA	Allocator 1	[Select one]							-
55	Insert asset description	e.g. ABAA	Allocator 2	[Select one]							-
56	Insert asset description	e.g. ABAA	Allocator 3	[Select one]							-
57	Insert asset description	e.g. ABAA	Allocator 4	[Select one]							-
58	Not directly attributable										-
59	Regulated service asset value not directly attributable										-
60	* include additional rows if needed										

Schedule 6a Report on Capital Expenditure for the Disclosure Year

Company Name

For Year Ended

SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs.

GTBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory notes to templates).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

		(\$000)	(\$000)
7	6a(i): Expenditure on Assets		
8	Consumer connection		-
9	System growth		-
10	Asset replacement and renewal		-
11	Asset relocations		-
12	Reliability, safety and environment:		
13	Quality of supply	-	-
14	Legislative and regulatory	-	-
15	Other reliability, safety and environment	-	-
16	Total reliability, safety and environment		-
17	Expenditure on network assets		-
18	Expenditure on non-network assets		-
19			
20	Expenditure on assets		-
21	<i>plus</i> Cost of financing		-
22	<i>less</i> Value of capital contributions		-
23	<i>plus</i> Value of vested assets		-
24			
25	Capital expenditure		-
26	6a(ii): Subcomponents of Expenditure on Assets(where known)		
27	Research and development		-
28	6a(iii): Consumer Connection		
29	<i>Consumer types defined by GTB*</i>	(\$000)	(\$000)
30	<input type="text" value="[GTB consumer type]"/>		-
31	<input type="text" value="[GTB consumer type]"/>		-
32	<input type="text" value="[GTB consumer type]"/>		-
33	<input type="text" value="[GTB consumer type]"/>		-
34	<input type="text" value="[GTB consumer type]"/>		-
35	<i>* include additional rows if needed</i>		
36	Consumer connection expenditure		-
37			
38	<i>less</i> Capital contributions funding consumer connection expenditure		-
39	Consumer connection less capital contributions		-

Company Name
 For Year Ended

SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR (cont)

sch ref

40 **6a(iv): System Growth and Asset Replacement and Renewal**

	System Growth (\$000)	Asset Replacement and Renewal (\$000)
43		
44		
45		
46		
47		
48		
49		
50		
51		
52		
53		
54		
55		
56	-	-
57		
58	-	-
59		

67 **6a(v): Asset Relocations**

	(\$000)	(\$000)
68		
69		
70		
71		
72		
73		
74		
75		
76		
77		
78		

79 **6a(vi): Quality of Supply**

	(\$000)	(\$000)
80		
81		
82		
83		
84		
85		
86		
87		
88		
89		
90		

		Company Name		
		For Year Ended		
SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR (cont)				
sch ref				
91	6a(vii): Legislative and Regulatory			
92	<i>Project or programme*</i>	(\$000)	(\$000)	
93	[Description of material project or programme]			
94	[Description of material project or programme]			
95	[Description of material project or programme]			
96	[Description of material project or programme]			
97	[Description of material project or programme]			
98	<i>* include additional rows if needed</i>			
99	All other projects or programmes - legislative and regulatory			
100	Legislative and regulatory expenditure			-
101	less Capital contributions funding legislative and regulatory			
102	Legislative and regulatory less capital contributions			-
110	6a(viii): Other Reliability, Safety and Environment			
111	<i>Project or programme*</i>	(\$000)	(\$000)	
112	[Description of material project or programme]			
113	[Description of material project or programme]			
114	[Description of material project or programme]			
115	[Description of material project or programme]			
116	[Description of material project or programme]			
117	<i>* include additional rows if needed</i>			
118	All other projects or programmes - other reliability, safety and environment			
119	Other reliability, safety and environment expenditure			-
120	less Capital contributions funding other reliability, safety and environment			
121	Other reliability, safety and environment less capital contributions			-
122				
123	6a(ix): Non-Network Assets			
124	Routine expenditure			
125	<i>Project or programme*</i>	(\$000)	(\$000)	
126	[Description of material project or programme]			
127	[Description of material project or programme]			
128	[Description of material project or programme]			
129	[Description of material project or programme]			
130	[Description of material project or programme]			
131	<i>* include additional rows if needed</i>			
132	All other projects or programmes - routine expenditure			
133	Routine expenditure			-
134	Atypical expenditure			
135	<i>Project or programme*</i>	(\$000)	(\$000)	
136	[Description of material project or programme]			
137	[Description of material project or programme]			
138	[Description of material project or programme]			
139	[Description of material project or programme]			
140	[Description of material project or programme]			
141	<i>* include additional rows if needed</i>			
142	All other projects or programmes - atypical expenditure			
143	Atypical expenditure			-
144				
145	Expenditure on non-network assets			-

Schedule 6b Report on Operational Expenditure for the Disclosure Year

Company Name

For Year Ended

SCHEDULE 6b: REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of **operational expenditure** incurred in the disclosure year. GTBs must provide explanatory comment on their operational expenditure in Schedule 14 (Explanatory notes to templates). This includes explanatory comment on any atypical **operational expenditure** and assets replaced or renewed as part of asset replacement and renewal operational expenditure, and additional information on insurance.

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

		(\$000)	(\$000)
7	6b(i): Operational Expenditure		
8	Service interruptions, incidents and emergencies	<input type="text"/>	
9	Routine and corrective maintenance and inspection	<input type="text"/>	
10	Asset replacement and renewal	<input type="text"/>	
11	Compressor fuel	<input type="text"/>	
12	Land management and associated activity	<input type="text"/>	
13	Network opex		-
14	System operations	<input type="text"/>	
15	Network support	<input type="text"/>	
16	Business support	<input type="text"/>	
17	Non-network opex		-
18			
19	Operational expenditure		<input type="text"/>
20	6b(ii): Subcomponents of Operational Expenditure (where known)		
21	Research and development		<input type="text"/>
22	Insurance		<input type="text"/>

Schedule 7 Comparison of Forecasts to Actual Expenditure

Company Name				
For Year Ended				
SCHEDULE 7: COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE				
This schedule compares actual revenue and expenditure to the previous forecasts that were made for the disclosure year. Accordingly, this schedule requires the forecast revenue and expenditure information from previous disclosures to be inserted.				
GTBs must provide explanatory comment on the variance between actual and target revenue and forecast expenditure in Schedule 14 (Mandatory Explanatory Notes). This information is part of the audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. For the purpose of this audit, target revenue and forecast expenditures only need to be verified back to previous disclosures.				
sch ref				
8	7(i): Revenue	Target (\$000) ¹	Actual (\$000)	% variance
9	Line charge revenue	-	-	-
10	7(ii): Expenditure on Assets	Forecast (\$000) ²	Actual (\$000)	% variance
11	Consumer connection	-	-	-
12	System growth	-	-	-
13	Asset replacement and renewal	-	-	-
14	Asset relocations	-	-	-
15	Reliability, safety and environment:			
16	Quality of supply	-	-	-
17	Legislative and regulatory	-	-	-
18	Other reliability, safety and environment	-	-	-
19	Total reliability, safety and environment	-	-	-
20	Expenditure on network assets	-	-	-
21	Expenditure on non-network assets	-	-	-
22	Expenditure on assets	-	-	-
23	7(iii): Operational Expenditure			
24	Service interruptions, incidents and emergencies	-	-	-
25	Routine and corrective maintenance and inspection	-	-	-
26	Asset replacement and renewal	-	-	-
27	Compressor fuel	-	-	-
28	Land management and associated activity	-	-	-
29	Network opex	-	-	-
30	System operations	-	-	-
31	Network support	-	-	-
32	Business support	-	-	-
33	Non-network opex	-	-	-
34	Operational expenditure	-	-	-
35				
36	7(iv): Subcomponents of Expenditure on Assets (where known)			
37	Research and development	-	-	-
38				
39	7(v): Subcomponents of Operational Expenditure (where known)			
40	Research and development	-	-	-
41	Insurance	-	-	-
42				
43	<i>1 From the nominal dollar target revenue for the pricing year disclosed under clause 2.4.3(3) of this determination</i>			
44	<i>2 from the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2.6.5 for the forecast period starting at the beginning of the disclosure year (the second to last disclosure of Schedules 11a and 11b)</i>			

Schedule 8 Report on Billed Quantities and Line Charge Revenues

Company Name
 For Year Ended

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES
 This schedule requires disclosure of the delivered quantities and number of offtake points for each type of connection on the GTB's network, and the energy delivered to these offtake points, for the disclosure year. It also requires the billed quantities and associated line charge revenues for each contract type used by the GTB, for the disclosure year.

sch ref

8(i): Delivered quantities by connection type

	Connection type	No. of offtake points	Quantity of gas delivered (TJ)
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23	<i>Add extra rows for additional identifiers as necessary</i>		
24	Total for all connections		-

8(ii): Billed quantities by contract type

	Billed quantities - gas billed	Billed quantities - reserved capacity billed*	Billed quantities - distance x throughput billed**	Billed quantities - overrun charges billed*	Billed quantities - other quantity billed	
Contract type	Units	Units	Units	Units	Units	
28						
29						
30	<input type="text" value="[Select one]"/>					
31	<input type="text" value="[Select one]"/>					
32	<i>Add extra rows for additional contract types as necessary</i>					
33	Totals for all contracts					-

Add extra columns for additional billed quantities as necessary

8(iii): Line charge revenues (\$000) by contract type

	Total line charge revenue in disclosure year	Throughput-based line charge revenue	Capacity reservation line charge revenue*	Distance x throughput line charge revenue**	Overrun line charge revenue*	Other line charge revenue		
37								
38	<input type="text" value="[Select one]"/>							
39	<input type="text" value="[Select one]"/>							
40	<i>Add extra rows for additional contract types as necessary</i>							
41	Totals for all contracts							-

Add extra columns for additional line charge revenues as necessary

Notional revenue foregone from posted discounts (if applicable)

42 *Vector only
 43 **MDL only

Schedule 9a Asset Register

		Company Name	<input style="width: 100%;" type="text"/>			
		For Year Ended	<input style="width: 100%;" type="text"/>			
SCHEDULE 9a: ASSET REGISTER						
This schedule requires a summary of the quantity of assets that make up the network, by asset category and asset						
ref						
			Items at start of year	Items at end of year	Net change	Data accuracy (1-4)
	Asset category	Asset class	Units	(quantity)	(quantity)	(1-4)
7	Pipes	Protected steel pipes	km			-
8	Pipes	Special crossings	km			-
9	Stations	Compressor stations	No.			-
10	Stations	Offtake point	No.			-
11	Stations	Scraper stations	No.			-
12	Stations	Intake points	No.			-
13	Stations	Metering stations	No.			-
14	Compressors	Compressors—turbine driven	No.			-
15	Compressors	Compressors—electric motor driven	No.			-
16	Compressors	Compressors—reciprocating engine drive	No.			-
17	Main-line valves	Main line valves manually operated	No.			-
18	Main-line valves	Main line valves remotely operated	No.			-
19	Heating systems	Gas-fired heaters	No.			-
20	Heating systems	Electric heaters	No.			-
21	Odourisation plants	Odourisation plants	No.			-
22	Coalescers	Coalescers	No.			-
23	Metering systems	Meters—ultrasonic	No.			-
24	Metering systems	Meters—rotary	No.			-
25	Metering systems	Meters turbine	No.			-
26	Metering systems	Meters—mass flow	No.			-
27	SCADA and communications	Remote terminal units (RTU)	No.			-
28	SCADA and communications	Communications terminals	No.			-
29	Cathodic protection	Rectifier units	No.			-
30	Chromatographs	Chromatographs	No.			-
31						-

Schedule 9c Report on Pipeline Data

<p style="text-align: center;">SCHEDULE 9c: REPORT ON PIPELINE DATA <small>This scheduler requires a summary of the key characteristics of the pipeline network.</small></p>		<p style="text-align: center;">Company Name For Year Ended</p>							
sch ref	Transmission system per pipeline segment	System length (km) (at year end)	Weighted average pipe diameter (mm)	MCA ²	Max monthly quantity entering the system (TJ per month)	Max weekly quantity entering the system (TJ per week)	Total gas conveyed (TJ per year)	Gas conveyed for Persons not involved in the GTB (TJ per year)	Number of offtake points
7	Transmission system 1								
8	Transmission system 2								
9	Transmission system 3								
10	Transmission system 4								
11	Transmission system 5								
12	Transmission system 6								
13									
14	Total								
15	Length by assigned location class (km)								
		Secondary location class							
		Common Infrastructure Corridor (CIC)							
		Sensitive Use (S)	Industrial (I)	Heavy Industrial (HI)	Submerged (W)				
16	Primary location class Rural (R1) and								
17	Primary location class Rural Residential (R2) and								
18	Primary location class Residential (T1) and								
19	Primary location class High Density (T2) and								
20	* The total km is not the same as the sum of the secondary location classes as a pipeline section may only have a primary location class.								
21									

Schedule 9d Report on Demand

	Company Name For Year Ended	
<p>SCHEDULE 9d: REPORT ON DEMAND This schedule requires a summary of the key measures of network demand for the disclosure year (number of new connections including maximum monthly loads and total gas conveyed)</p>		
7		
8	9d(i): New Connections	
9	Connection types defined by GTB	Number of new connections
10	[GTB connection type]	
11	[GTB connection type]	
12	[GTB connection type]	
13	[GTB connection type]	
14	* include additional rows if needed	
15	Connections total	
16		
17	9d(ii): Gas Volumes and Connections	
18	Connection types defined by GTB	Quantity of gas delivered (TJ)
19	[GTB connection type]	Gas entering the network (TJ)
20	[GTB connection type]	Number of connection points
21	[GTB connection type]	
22	[GTB connection type]	
23	* include additional rows if needed	
24	Total	
25		
26	9d(iii): Gas conveyed	
27	Gas entering the network (TJ)	
28	Quantity of gas delivered (TJ)	
29	Gas used in compressor stations (TJ)	
30	Gas used in heating systems (TJ)	
31	Change in Line Pack (TJ)	
32	Unaccounted for gas (TJ)	
33	Total gas conveyed (TJ)	
34		
35	9d(iv): Unaccounted for Gas	
36	Gas entering the system (TJ)	Gas entering the system (TJ)
37	[Transmission system 1]	Unaccounted for gas (TJ)
38	[Transmission system 2]	Unaccounted for gas (TJ)
39	[Transmission system 3]	Unaccounted for gas (TJ)
40	[Transmission system 4]	Unaccounted for gas (TJ)
41	[Transmission system 5]	Unaccounted for gas (TJ)
42	Total	
43		
44	Gas entering system from other GTB (TJ)	GTB owned Transmission system gas received from
45		
46		
47		
48		
49		
50		

Schedule 10a Report on Network Reliability and Interruptions

Company Name

For Year Ended

SCHEDULE 10a: REPORT ON NETWORK RELIABILITY AND INTERRUPTIONS

This schedule requires a summary of the key measures of network reliability (interruptions, compressor availability) for the disclosure year. GTBs must provide explanatory comment on their network reliability for the disclosure year in Schedule 14 (Explanatory Notes to Templates).

sch ref

7 **10a(i): Interruptions and Reliability**

8

9 Total number of planned interruptions

10 **Service incidents and emergencies**

11 Number of incidents

12

13 **Unplanned interruptions in transmission systems**

14	Description and cause of Interruption	Transmission systems affected	Date	Duration (hrs)
15	[Description of interruption]			
16	[Description of interruption]			
17	[Description of interruption]			
18	[Description of interruption]			
19	[Description of interruption]			
20	[Description of interruption]			
21	[Description of interruption]			
22	[Description of interruption]			

23 *Add rows as necessary

24 Number of interruption or curtailment events:

25	due to insufficient capacity	<input type="text"/>
26	due to consumer flows exceeding approved quantities	<input type="text"/>
27	caused by equipment failure	<input type="text"/>
28	caused by third parties	<input type="text"/>
29	Total	<input type="text"/>

30 **10a(ii): Compressor Availability**

32	Compressor station code/name	Compressor unit ID	Number of hours the compressor ran	Number of hours compressor was available for service	Number of instances where the compressor failed to start	Number of instances where a compressor was required but unavailable for service
33	[Compressor station name]					
34	[Compressor station name]					
35	[Compressor station name]					
36	[Compressor station name]					
37	[Compressor station name]					
38	[Compressor station name]					
39	[Compressor station name]					
40	[Compressor station name]					
41	[Compressor station name]					
42	[Compressor station name]					
43	[Compressor station name]					

44 *Add rows as necessary

Schedule 10b Report on Network Integrity

Company Name For Year Ended	
SCHEDULE 10b: REPORT ON NETWORK INTEGRITY This schedule requires a summary of the key measures of network integrity (product control, gas escapes, RTE) for the disclosure year.	
7	Product control
8	Number of incidents relating to pressure
9	Number of incidents relating to gas specification
10	Number of incidents relating to odourisation
11	
12	Response time to emergencies (RTE)
13	Proportion of emergencies responded to within 3 hours (%)
14	Average call response time (hours)
15	Number of emergencies
16	
17	Gas leaks
18	Number of confirmed public reported gas escapes per system length (escapes/1000 km)
19	Number of confirmed gas leaks caused by a third party per system length (escapes/1000 km)
20	Number of gas leaks detected by the GTB
21	Number of gas leaks that did not result in disruption to supply

Schedule 11a Report on Forecast Capital Expenditure

		Company Name AMP Planning Period										
		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
32												
33												
34												
35												
36												
37												
38												
39												
40												
41												
42												
43												
44												
45												
46												
47												
48												
49												
50												
51												
52												
53												
54												
55												
56												
57												
58												
59												
60												
61												
62												
63												
64												
65												
66												
67												
68												

		Company Name					AMP Planning Period						
sch.ref		Current Year CY	CV+1	CV+2	CV+3	CV+4	CV+5	Current Year CY	CV+1	CV+2	CV+3	CV+4	CV+5
73													
74													
75													
76													
77													
78													
79													
80													
81													
82													
83													
84													
85													
86													
87													
88													
89													
90													
91													
92													
93													
94													
95													
103													
104													
105													
106													
107													
108													
109													
110													
111													
112													
113													
114													
115													
116													
117													
118													
119													
120													
121													
122													
123													
124													
125													
126													
127													
128													
129													
130													
131													
132													
133													
134													
135													
136													
137													
138													
139													
140													

SCHEDULE 11a: REPORT ON FORECAST CAPITAL EXPENDITURE (cont)

11a(ii): Consumer Connection

*Consumer types defined by EDR**

EDR consumer type

**Include additional rows if needed*

Consumer connection less capital contributions

less Capital contributions funding consumer connection

less Consumer connection less capital contributions

11a(iii): System Growth

Subtransmission

Zone substations

Distribution and LV lines

Distribution and LV cables

Distribution substations and transformers

Distribution switchgear

Other network assets

System growth expenditure

less Capital contributions funding system growth

less System growth less capital contributions

11a(iv): Asset Replacement and Renewal

Subtransmission

Zone substations

Distribution and LV lines

Distribution and LV cables

Distribution substations and transformers

Distribution switchgear

Other network assets

Asset replacement and renewal expenditure

less Capital contributions funding asset replacement and renewal

less Asset replacement and renewal less capital contributions

11a(v): Asset Relocations

*Project or programme**

Description of material or object or programme

**Include additional rows if needed*

Asset relocations expenditure

less Capital contributions funding asset relocations

less Asset relocations less capital contributions

11a(vi): Quality of Supply

*Project or programme**

Description of material or object or programme

**Include additional rows if needed*

Quality of supply expenditure

less Capital contributions funding quality of supply

less Quality of supply less capital contributions

		Company Name				
		AMP Planning Period				
id# ref	SCHEDULE 11a: REPORT ON FORECAST CAPITAL EXPENDITURE (cont)	Current Year CY				
		CW1	CW2	CW3	CW4	CW5
141						
142						
143						
144						
145						
146						
147						
148						
149						
150						
151						
152						
153						
161						
162						
163						
164						
165						
166						
167						
168						
169						
170						
171						
172						
173						
174						
175						
176						
177						
178						
179						
180						
181						
182						
183						
184						
185						
186						
187						
188						
189						
190						
191						
192						
193						
194						
195						
196						
197						
198						
199						
200						

Schedule 11b Report on Forecast Operational Expenditure

		Company Name AMP Planning Period										
		Current Year	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10
7		\$,000 (in nominal dollar)										
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
32												
33												
34												
35												
36												
37												
38												
39												
40												
41												
42												
43												
44												
45												
46												
47												
48												
49												
50												
51												
52												

Schedule 12b Report on Forecast Demand

		Company Name					
		AMP Planning Period					
SCHEDULE 12b: REPORT ON FORECAST DEMAND							
This Schedule requires a forecast of new connections (by consumer type) and gas delivered for the current disclosure year and a 5 year planning period. The forecasts should be consistent with the supporting information set out in the AMP and the assumptions used in developing the capital expenditure forecast in Schedule S11a (and 11b)							
sch ref		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
7	12b(i): Connections						
8							
9							
10	Connection types defined by GTB						
11	[GTB connection type]						
12	[GTB connection type]						
13	[GTB connection type]						
14	[GTB connection type]						
15	[GTB connection type]						
16	* include additional rows if needed						
17	Connections total						
18							
19							
20							
21							
22							
23	12b(ii): Gas conveyed						
24	Gas entering the network (TJ)						
25	Quantity of gas delivered (TJ)						
26	Gas used in compressor stations (TJ)						
27	Gas used in heating systems (TJ)						
28	Change in Line Pack (TJ)						
29	Unaccounted for gas (TJ)						
30	Total gas conveyed (TJ)						

Schedule 13 Report on Asset Management Maturity

1. When required to complete the Report on Asset Management Maturity under clause 2.6.1, each GTB must-
 - 1.1 ensure that the person responsible for managing network assets (or a similar level individual) in the organisation takes responsibility for completing this report, including-
 - 1.1.1 Organising people within the organisation to answer the questions;
 - 1.1.2 Arranging for all information to be captured in the Report on Asset Management Maturity;
 - 1.1.3 Reporting to the organisation on the results of the assessment;
 - 1.1.4 Planning the assessment process, including-
 - (a) determining the form the assessment process is to take. In this context, the principal formats are generally taken to be interviews, facilitated groups/panels or a combination of the two;
 - (b) arranging for appropriate outsourced service providers and stakeholders to act as respondents during the assessment exercise;
 - (c) providing appropriate pre-assessment communication (and training where appropriate) to ensure that, as a minimum, the proposed respondents are aware of the process and the part within it that they are being asked to play;
 - (d) identifying which questions are to be asked of which respondents.
 - 1.2 specify in the Report on Asset Management Maturity the standard of asset management practice that the GTB has used as the reference standard.
 - 1.3 fill out the following columns in the Report on Asset Management Maturity set out below
 - 1.3.1 'User guidance': guidance (if required) on completing each question of the report.

This column can be used by the person responsible for completing the report to provide guidance to the persons coordinating responses to each question.

- 1.3.2 'Evidence—Summary': the information/evidence used to support the assessed rating.

The cells in this column should be completed by persons coordinating responses to each question.

- 1.3.3 'Score': the appropriate maturity rating (this must be a whole number between 0 and 4).

To meet Report on Asset Management Maturity level 4 maturity, the GTB's processes must surpass the standards that must be complied with in an internationally accepted asset management specification. The Report on Asset Management Maturity questionnaire has been prepared to conform to the PAS 55 specification. However, a similar specification, if available, may be used for the purpose of disclosure.

2. When disclosing the Report on Asset Management Maturity in the AMP, a GTB must include at least the following columns-

- 2.1 'Question No';
- 2.2 'Function';
- 2.3 'Question';
- 2.4 'Score';
- 2.5 'Evidence—Summary';
- 2.6 'Why';
- 2.7 'Who';
- 2.8 'Record/documented Information'; and
- 2.9 a maturity level column which includes, for each row, the corresponding definition of the maturity level 'score' selected for each 'question'.

3. Guidance notes on completing the Report on Asset Management Maturity

- 3.1 *Part of the value of a formal asset management system is the definition and standardisation of terms. A common understanding of terms helps interested persons to understand the asset management concepts and processes that apply to the GTB. In particular, it helps the GTB's employees and suppliers to understand and improve asset management concepts and processes.*

- 3.2 *The report will not provide an effective assessment of the maturity of the GTB's asset management capability and processes unless the preparation of the report is supported by senior management of the GTB.*
- 3.3 *The level of effort required to complete the report should be consistent with a gap analysis exercise rather than the level typically involved with an audit for certification.*
- 3.4 *An audit involves a systematic, independent process for the collection and analysis of evidence to support a rating whereas the report is intended to be used by providing a reference to supporting evidence or an explanation of the self-assessment.*
- 3.5 *The level of documentation within an asset management system is expected to be consistent with factors such as the size of the company, complexity of processes and competence of personnel.*
- 3.6 *The definitions provided in the report for each maturity rating should provide sufficient information for a GTB to objectively identify the level currently being achieved by the organisation.*

<div style="text-align: right;"> Company Name <input type="text"/> AMP Planning Period <input type="text"/> Asset Management Standard Applied <input type="text"/> </div> SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY This schedule requires information on the GTB'S self-assessment of the maturity of its asset management practices .								
Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
3	Asset management policy	To what extent has an asset management policy been documented, authorised and communicated?				Widely used AM practice standards require an organisation to document, authorise and communicate its asset management policy (eg, as required in PAS 55 para 4.2 i). A key pre-requisite of any robust policy is that the organisation's top management must be seen to endorse and fully support it. Also vital to the effective implementation of the policy, is to tell the appropriate people of its content and their obligations under it. Where an organisation outsources some of its asset-related activities, then these people and their organisations must equally be made aware of the policy's content. Also, there may be other stakeholders, such as regulatory authorities and shareholders who should be made aware of it.	Top management. The management team that has overall responsibility for asset management.	The organisation's asset management policy, its organisational strategic plan, documents indicating how the asset management policy was based upon the needs of the organisation and evidence of communication.
10	Asset management strategy	What has the organisation done to ensure that its asset management strategy is consistent with other appropriate organisational policies and strategies, and the needs of stakeholders?				In setting an organisation's asset management strategy, it is important that it is consistent with any other policies and strategies that the organisation has and has taken into account the requirements of relevant stakeholders. This question examines to what extent the asset management strategy is consistent with other organisational policies and strategies (eg, as required by PAS 55 para 4.3.1 b) and has taken account of stakeholder requirements as required by PAS 55 para 4.3.1 c). Generally, this will take into account the same policies, strategies and stakeholder requirements as covered in drafting the asset management policy but at a greater level of detail.	Top management. The organisation's strategic planning team. The management team that has overall responsibility for asset management.	The organisation's asset management strategy document and other related organisational policies and strategies. Other than the organisation's strategic plan, these could include those relating to health and safety, environmental, etc. Results of stakeholder consultation.
11	Asset management strategy	In what way does the organisation's asset management strategy take account of the lifecycle of the assets, asset types and asset systems over which the organisation has stewardship?				Good asset stewardship is the hallmark of an organisation compliant with widely used AM standards. A key component of this is the need to take account of the lifecycle of the assets, asset types and asset systems. (For example, this requirement is recognised in 4.3.1 d) of PAS 55). This question explores what an organisation has done to take lifecycle into account in its asset management strategy.	Top management. People in the organisation with expert knowledge of the assets, asset types, asset systems and their associated life-cycles. The management team that has overall responsibility for asset management. Those responsible for developing and adopting methods and processes used in asset management	The organisation's documented asset management strategy and supporting working documents.
26	Asset management plan(s)	How does the organisation establish and document its asset management plan(s) across the life cycle activities of its assets and asset systems?				The asset management strategy need to be translated into practical plan(s) so that all parties know how the objectives will be achieved. The development of plan(s) will need to identify the specific tasks and activities required to optimize costs, risks and performance of the assets and/or asset system(s), when they are to be carried out and the resources required.	The management team with overall responsibility for the asset management system. Operations, maintenance and engineering managers.	The organisation's asset management plan(s).

<div style="float: right; text-align: right;"> Company Name _____ AMP Planning Period _____ Asset Management Standard Applied _____ </div> SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)							
Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
3	Asset management policy	To what extent has an asset management policy been documented, authorised and communicated?	The organisation does not have a documented asset management policy.	The organisation has an asset management policy, but it has not been authorised by top management, or it is not influencing the management of the assets.	The organisation has an asset management policy, which has been authorised by top management, but it has had limited circulation. It may be in use to influence development of strategy and planning but its effect is limited.	The asset management policy is authorised by top management, is widely and effectively communicated to all relevant employees and stakeholders, and used to make these persons aware of their asset related obligations.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
10	Asset management strategy	What has the organisation done to ensure that its asset management strategy is consistent with other appropriate organisational policies and strategies, and the needs of stakeholders?	The organisation has not considered the need to ensure that its asset management strategy is appropriately aligned with the organisation's other organisational policies and strategies or with stakeholder requirements. OR The organisation does not have an asset management strategy.	The need to align the asset management strategy with other organisational policies and strategies as well as stakeholder requirements is understood and work has started to identify the linkages or to incorporate them in the drafting of asset management strategy.	Some of the linkages between the long-term asset management strategy and other organisational policies, strategies and stakeholder requirements are defined but the work is fairly well advanced but still incomplete.	All linkages are in place and evidence is available to demonstrate that, where appropriate, the organisation's asset management strategy is consistent with its other organisational policies and strategies. The organisation has also identified and considered the requirements of relevant stakeholders.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
11	Asset management strategy	In what way does the organisation's asset management strategy take account of the lifecycle of the assets, asset types and asset systems over which the organisation has stewardship?	The organisation has not considered the need to ensure that its asset management strategy is produced with due regard to the lifecycle of the assets, asset types or asset systems that it manages. OR The organisation does not have an asset management strategy.	The need is understood, and the organisation is drafting its asset management strategy to address the lifecycle of its assets, asset types and asset systems.	The long-term asset management strategy takes account of the lifecycle of some, but not all, of its assets, asset types and asset systems.	The asset management strategy takes account of the lifecycle of all of its assets, asset types and asset systems.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
26	Asset management plan(s)	How does the organisation establish and document its asset management plan(s) across the life cycle activities of its assets and asset systems?	The organisation does not have an identifiable asset management plan(s) covering asset systems and critical assets.	The organisation has asset management plan(s) but they are not aligned with the asset management strategy and objectives and do not take into consideration the full asset life cycle (including asset creation, acquisition, enhancement, utilisation, maintenance decommissioning and disposal).	The organisation is in the process of putting in place comprehensive, documented asset management plan(s) that cover all life cycle activities, clearly aligned to asset management objectives and the asset management strategy.	Asset management plan(s) are established, documented, implemented and maintained for asset systems and critical assets to achieve the asset management strategy and asset management objectives across all life cycle phases.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="flex: 1;"> <p>SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)</p> </div> <div style="flex: 1; text-align: right;"> <p>Company Name _____ AMP Planning Period _____ Asset Management Standard Applied _____</p> </div> </div>								
Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/document Information
27	Asset management plan(s)	How has the organisation communicated its plan(s) to all relevant parties to a level of detail appropriate to the receiver's role in their delivery?				Plans will be ineffective unless they are communicated to all those, including contracted suppliers and those who undertake enabling function(s). The plan(s) need to be communicated in a way that is relevant to those who need to use them.	The management team with overall responsibility for the asset management system. Delivery functions and suppliers.	Distribution lists for plan(s). Documents derived from plan(s) which detail the receivers role in plan delivery. Evidence of communication.
29	Asset management plan(s)	How are designated responsibilities for delivery of asset plan actions documented?				The implementation of asset management plan(s) relies on (1) actions being clearly identified, (2) an owner allocated and (3) that owner having sufficient delegated responsibility and authority to carry out the work required. It also requires alignment of actions across the organisation. This question explores how well the plan(s) set out responsibility for delivery of asset plan actions.	The management team with overall responsibility for the asset management system. Operations, maintenance and engineering managers. If appropriate, the performance management team.	The organisation's asset management plan(s). Documentation defining roles and responsibilities of individuals and organisational departments.
31	Asset management plan(s)	What has the organisation done to ensure that appropriate arrangements are made available for the efficient and cost effective implementation of the plan(s)? (Note this is about resources and enabling support)				It is essential that the plan(s) are realistic and can be implemented, which requires appropriate resources to be available and enabling mechanisms in place. This question explores how well this is achieved. The plan(s) not only need to consider the resources directly required and timescales, but also the enabling activities, including for example, training requirements, supply chain capability and procurement timescales.	The management team with overall responsibility for the asset management system. Operations, maintenance and engineering managers. If appropriate, the performance management team. Where appropriate the procurement team and service providers working on the organisation's asset-related activities.	The organisation's asset management plan(s). Documented processes and procedures for the delivery of the asset management plan.
33	Contingency planning	What plan(s) and procedure(s) does the organisation have for identifying and responding to incidents and emergency situations and ensuring continuity of critical asset management activities?				Widely used AM practice standards require that an organisation has plan(s) to identify and respond to emergency situations. Emergency plan(s) should outline the actions to be taken to respond to specified emergency situations and ensure continuity of critical asset management activities including the communication to, and involvement of, external agencies. This question assesses if, and how well, these plan(s) triggered, implemented and resolved in the event of an incident. The plan(s) should be appropriate to the level of risk as determined by the organisation's risk assessment methodology. It is also a requirement that relevant personnel are competent and trained.	The manager with responsibility for developing emergency plan(s). The organisation's risk assessment team. People with designated duties within the plan(s) and procedure(s) for dealing with incidents and emergency situations.	The organisation's plan(s) and procedure(s) for dealing with emergencies. The organisation's risk assessments and risk registers.

<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="flex: 1;"> <p>SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)</p> </div> <div style="flex: 1; text-align: right;"> <p>Company Name _____</p> <p>AMP Planning Period _____</p> <p>Asset Management Standard Applied _____</p> </div> </div>							
Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
27	Asset management plan(s)	How has the organisation communicated its plan(s) to all relevant parties to a level of detail appropriate to the receiver's role in their delivery?	The organisation does not have plan(s) or their distribution is limited to the authors.	The plan(s) are communicated to some of those responsible for delivery of the plan(s). OR Communicated to those responsible for delivery is either irregular or ad-hoc.	The plan(s) are communicated to most of those responsible for delivery but there are weaknesses in identifying relevant parties resulting in incomplete or inappropriate communication. The organisation recognises improvement is needed as is working towards resolution.	The plan(s) are communicated to all relevant employees, stakeholders and contracted service providers to a level of detail appropriate to their participation or business interests in the delivery of the plan(s) and there is confirmation that they are being used effectively.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
29	Asset management plan(s)	How are designated responsibilities for delivery of asset plan actions documented?	The organisation has not documented responsibilities for delivery of asset plan actions.	Asset management plan(s) inconsistently document responsibilities for delivery of plan actions and activities and/or responsibilities and authorities for implementation inadequate and/or delegation level inadequate to ensure effective delivery and/or contain misalignments with organisational accountability.	Asset management plan(s) consistently document responsibilities for the delivery of actions but responsibility/authority levels are inappropriate/ inadequate, and/or there are misalignments within the organisation.	Asset management plan(s) consistently document responsibilities for the delivery actions and there is adequate detail to enable delivery of actions. Designated responsibility and authority for achievement of asset plan actions is appropriate.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
31	Asset management plan(s)	What has the organisation done to ensure that appropriate arrangements are made available for the efficient and cost effective implementation of the plan(s)? (Note this is about resources and enabling support)	The organisation has not considered the arrangements needed for the effective implementation of plan(s).	The organisation recognises the need to ensure appropriate arrangements are in place for implementation of asset management plan(s) and is in the process of determining an appropriate approach for achieving this.	The organisation has arrangements in place for the implementation of asset management plan(s) but the arrangements are not yet adequately efficient and/or effective. The organisation is working to resolve existing weaknesses.	The organisation's arrangements fully cover all the requirements for the efficient and cost effective implementation of asset management plan(s) and realistically address the resources and timescales required, and any changes needed to functional policies, standards, processes and the asset management information system.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
33	Contingency planning	What plan(s) and procedure(s) does the organisation have for identifying and responding to incidents and emergency situations and ensuring continuity of critical asset management activities?	The organisation has not considered the need to establish plan(s) and procedure(s) to identify and respond to incidents and emergency situations.	The organisation has some ad-hoc arrangements to deal with incidents and emergency situations, but these have been developed on a reactive basis in response to specific events that have occurred in the past.	Most credible incidents and emergency situations are identified. Either appropriate plan(s) and procedure(s) are incomplete for critical activities or they are inadequate. Training/ external alignment may be incomplete.	Appropriate emergency plan(s) and procedure(s) are in place to respond to credible incidents and manage continuity of critical asset management activities consistent with policies and asset management objectives. Training and external agency alignment is in place.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

<div style="float: right; text-align: right;"> Company Name <input type="text"/> AMP Planning Period <input type="text"/> Asset Management Standard Applied <input type="text"/> </div> SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)								
Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
37	Structure, authority and responsibilities	What has the organisation done to appoint member(s) of its management team to be responsible for ensuring that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s)?				In order to ensure that the organisation's assets and asset systems deliver the requirements of the asset management policy, strategy and objectives responsibilities need to be allocated to appropriate people who have the necessary authority to fulfil their responsibilities. (This question, relates to the organisation's assets eg, para b), s 4.4.1 of PAS 55, making it therefore distinct from the requirement contained in para a), s 4.4.1 of PAS 55).	Top management. People with management responsibility for the delivery of asset management policy, strategy, objectives and plan(s). People working on asset-related activities.	Evidence that managers with responsibility for the delivery of asset management policy, strategy, objectives and plan(s) have been appointed and have assumed their responsibilities. Evidence may include the organisation's documents relating to its asset management system, organisational charts, job descriptions of post-holders, annual targets/objectives and personal development plan(s) of post-holders as appropriate.
40	Structure, authority and responsibilities	What evidence can the organisation's top management provide to demonstrate that sufficient resources are available for asset management?				Optimal asset management requires top management to ensure sufficient resources are available. In this context the term 'resources' includes manpower, materials, funding and service provider support.	Top management. The management team that has overall responsibility for asset management. Risk management team. The organisation's managers involved in day-to-day supervision of asset-related activities, such as frontline managers, engineers, foremen and chargehands as appropriate.	Evidence demonstrating that asset management plan(s) and/or the process(es) for asset management plan implementation consider the provision of adequate resources in both the short and long term. Resources include funding, materials, equipment, services provided by third parties and personnel (internal and service providers) with appropriate skills competencies and knowledge.
42	Structure, authority and responsibilities	To what degree does the organisation's top management communicate the importance of meeting its asset management requirements?				Widely used AM practice standards require an organisation to communicate the importance of meeting its asset management requirements such that personnel fully understand, take ownership of, and are fully engaged in the delivery of the asset management requirements (eg, PAS 55 s 4.4.1 g).	Top management. The management team that has overall responsibility for asset management. People involved in the delivery of the asset management requirements.	Evidence of such activities as road shows, written bulletins, workshops, team talks and management walkabouts would assist an organisation to demonstrate it is meeting this requirement of PAS 55.
45	Outsourcing of asset management activities	Where the organisation has outsourced some of its asset management activities, how has it ensured that appropriate controls are in place to ensure the compliant delivery of its organisational strategic plan, and its asset management policy and strategy?				Where an organisation chooses to outsource some of its asset management activities, the organisation must ensure that these outsourced process(es) are under appropriate control to ensure that all the requirements of widely used AM standards (eg, PAS 55) are in place, and the asset management policy, strategy objectives and plan(s) are delivered. This includes ensuring capabilities and resources across a time span aligned to life cycle management. The organisation must put arrangements in place to control the outsourced activities, whether it be to external providers or to other in-house departments. This question explores what the organisation does in this regard.	Top management. The management team that has overall responsibility for asset management. The manager(s) responsible for the monitoring and management of the outsourced activities. People involved with the procurement of outsourced activities. The people within the organisations that are performing the outsourced activities. The people impacted by the outsourced activity.	The organisation's arrangements that detail the compliance required of the outsourced activities. For example, this this could form part of a contract or service level agreement between the organisation and the suppliers of its outsourced activities. Evidence that the organisation has demonstrated to itself that it has assurance of compliance of outsourced activities.

Company Name AMP Planning Period Asset Management Standard Applied							
SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)							
Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
37	Structure, authority and responsibilities	What has the organisation done to appoint member(s) of its management team to be responsible for ensuring that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s)?	Top management has not considered the need to appoint a person or persons to ensure that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s).	Top management understands the need to appoint a person or persons to ensure that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s).	Top management has appointed an appropriate people to ensure the assets deliver the requirements of the asset management strategy, objectives and plan(s) but their areas of responsibility are not fully defined and/or they have insufficient delegated authority to fully execute their responsibilities.	The appointed person or persons have full responsibility for ensuring that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s). They have been given the necessary authority to achieve this.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
40	Structure, authority and responsibilities	What evidence can the organisation's top management provide to demonstrate that sufficient resources are available for asset management?	The organisation's top management has not considered the resources required to deliver asset management.	The organisations top management understands the need for sufficient resources but there are no effective mechanisms in place to ensure this is the case.	A process exists for determining what resources are required for its asset management activities and in most cases these are available but in some instances resources remain insufficient.	An effective process exists for determining the resources needed for asset management and sufficient resources are available. It can be demonstrated that resources are matched to asset management requirements.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
42	Structure, authority and responsibilities	To what degree does the organisation's top management communicate the importance of meeting its asset management requirements?	The organisation's top management has not considered the need to communicate the importance of meeting asset management requirements.	The organisations top management understands the need to communicate the importance of meeting its asset management requirements but does not do so.	Top management communicates the importance of meeting its asset management requirements but only to parts of the organisation.	Top management communicates the importance of meeting its asset management requirements to all relevant parts of the organisation.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
45	Outsourcing of asset management activities	Where the organisation has outsourced some of its asset management activities, how has it ensured that appropriate controls are in place to ensure the compliant delivery of its organisational strategic plan, and its asset management policy and strategy?	The organisation has not considered the need to put controls in place.	The organisation controls its outsourced activities on an ad-hoc basis, with little regard for ensuring for the compliant delivery of the organisational strategic plan and/or its asset management policy and strategy.	Controls systematically considered but currently only provide for the compliant delivery of some, but not all, aspects of the organisational strategic plan and/or its asset management policy and strategy. Gaps exist.	Evidence exists to demonstrate that outsourced activities are appropriately controlled to provide for the compliant delivery of the organisational strategic plan, asset management policy and strategy, and that these controls are integrated into the asset management system	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)								
							Company Name	
							AMP Planning Period	
							Asset Management Standard Applied	
Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
48	Training, awareness and competence	How does the organisation develop plan(s) for the human resources required to undertake asset management activities - including the development and delivery of asset management strategy, process(es), objectives and plan(s)?				There is a need for an organisation to demonstrate that it has considered what resources are required to develop and implement its asset management system. There is also a need for the organisation to demonstrate that it has assessed what development plan(s) are required to provide its human resources with the skills and competencies to develop and implement its asset management systems. The timescales over which the plan(s) are relevant should be commensurate with the planning horizons within the asset management strategy considers e.g. if the asset management strategy considers 5, 10 and 15 year time scales then the human resources development plan(s) should align with these. Resources include both 'in house' and external resources who undertake asset management activities.	Senior management responsible for agreement of plan(s). Managers responsible for developing asset management strategy and plan(s). Managers with responsibility for development and recruitment of staff (including HR functions). Staff responsible for training. Procurement officers. Contracted service providers.	Evidence of analysis of future work load plan(s) in terms of human resources. Document(s) containing analysis of the organisation's own direct resources and contractors resource capability over suitable timescales. Evidence, such as minutes of meetings, that suitable management forums are monitoring human resource development plan(s). Training plan(s), personal development plan(s), contract and service level agreements.
49	Training, awareness and competence	How does the organisation identify competency requirements and then plan, provide and record the training necessary to achieve the competencies?				Widely used AM standards require that organisations to undertake a systematic identification of the asset management awareness and competencies required at each level and function within the organisation. Once identified the training required to provide the necessary competencies should be planned for delivery in a timely and systematic way. Any training provided must be recorded and maintained in a suitable format. Where an organisation has contracted service providers in place then it should have a means to demonstrate that this requirement is being met for their employees. (eg, PAS 55 refers to frameworks suitable for identifying competency requirements).	Senior management responsible for agreement of plan(s). Managers responsible for developing asset management strategy and plan(s). Managers with responsibility for development and recruitment of staff (including HR functions). Staff responsible for training. Procurement officers. Contracted service providers.	Evidence of an established and applied competency requirements assessment process and plan(s) in place to deliver the required training. Evidence that the training programme is part of a wider, co-ordinated asset management activities training and competency programme. Evidence that training activities are recorded and that records are readily available (for both direct and contracted service provider staff) e.g. via organisation wide information system or local records database.
50	Training, awareness and competence	How does the organization ensure that persons under its direct control undertaking asset management related activities have an appropriate level of competence in terms of education, training or experience?				A critical success factor for the effective development and implementation of an asset management system is the competence of persons undertaking these activities. Organisations should have effective means in place for ensuring the competence of employees to carry out their designated asset management function(s). Where an organisation has contracted service providers undertaking elements of its asset management system then the organisation shall assure itself that the outsourced service provider also has suitable arrangements in place to manage the competencies of its employees. The organisation should ensure that the individual and corporate competencies it requires are in place and actively monitor, develop and maintain an appropriate balance of these competencies.	Managers, supervisors, persons responsible for developing training programmes. Staff responsible for procurement and service agreements. HR staff and those responsible for recruitment.	Evidence of a competency assessment framework that aligns with established frameworks such as the asset management Competencies Requirements Framework (Version 2.0); National Occupational Standards for Management and Leadership; UK Standard for Professional Engineering Competence, Engineering Council, 2005.

Company Name <input type="text"/> AMP Planning Period <input type="text"/> Asset Management Standard Applied <input type="text"/>							
SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)							
Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
48	Training, awareness and competence	How does the organisation develop plan(s) for the human resources required to undertake asset management activities - including the development and delivery of asset management strategy, process(es), objectives and plan(s)?	The organisation has not recognised the need for assessing human resources requirements to develop and implement its asset management system.	The organisation has recognised the need to assess its human resources requirements and to develop a plan(s). There is limited recognition of the need to align these with the development and implementation of its asset management system.	The organisation has developed a strategic approach to aligning competencies and human resources to the asset management system including the asset management plan but the work is incomplete or has not been consistently implemented.	The organisation can demonstrate that plan(s) are in place and effective in matching competencies and capabilities to the asset management system including the plan for both internal and contracted activities. Plans are reviewed integral to asset management system process(es).	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
49	Training, awareness and competence	How does the organisation identify competency requirements and then plan, provide and record the training necessary to achieve the competencies?	The organisation does not have any means in place to identify competency requirements.	The organisation has recognised the need to identify competency requirements and then plan, provide and record the training necessary to achieve the competencies.	The organisation is the process of identifying competency requirements aligned to the asset management plan(s) and then plan, provide and record appropriate training. It is incomplete or inconsistently applied.	Competency requirements are in place and aligned with asset management plan(s). Plans are in place and effective in providing the training necessary to achieve the competencies. A structured means of recording the competencies achieved is in place.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
50	Training, awareness and competence	How does the organization ensure that persons under its direct control undertaking asset management related activities have an appropriate level of competence in terms of education, training or experience?	The organization has not recognised the need to assess the competence of person(s) undertaking asset management related activities.	Competency of staff undertaking asset management related activities is not managed or assessed in a structured way, other than formal requirements for legal compliance and safety management.	The organization is in the process of putting in place a means for assessing the competence of person(s) involved in asset management activities including contractors. There are gaps and inconsistencies.	Competency requirements are identified and assessed for all persons carrying out asset management related activities - internal and contracted. Requirements are reviewed and staff reassessed at appropriate intervals aligned to asset management requirements.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

<div style="text-align: right;"> Company Name _____ AMP Planning Period _____ Asset Management Standard Applied _____ </div> SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)								
Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/document Information
53	Communication, participation and consultation	How does the organisation ensure that pertinent asset management information is effectively communicated to and from employees and other stakeholders, including contracted service providers?				Widely used AM practice standards require that pertinent asset management information is effectively communicated to and from employees and other stakeholders including contracted service providers. Pertinent information refers to information required in order to effectively and efficiently comply with and deliver asset management strategy, plan(s) and objectives. This will include for example the communication of the asset management policy, asset performance information, and planning information as appropriate to contractors.	Top management and senior management representative(s), employee's representative(s), employee's trade union representative(s); contracted service provider management and employee representative(s); representative(s) from the organisation's Health, Safety and Environmental team. Key stakeholder representative(s).	Asset management policy statement prominently displayed on notice boards, intranet and internet; use of organisation's website for displaying asset performance data; evidence of formal briefings to employees, stakeholders and contracted service providers; evidence of inclusion of asset management issues in team meetings and contracted service provider contract meetings; newsletters, etc.
59	Asset Management System documentation	What documentation has the organisation established to describe the main elements of its asset management system and interactions between them?				Widely used AM practice standards require an organisation maintain up to date documentation that ensures that its asset management systems (ie, the systems the organisation has in place to meet the standards) can be understood, communicated and operated. (eg, s 4.5 of PAS 55 requires the maintenance of up to date documentation of the asset management system requirements specified throughout s 4 of PAS 55).	The management team that has overall responsibility for asset management. Managers engaged in asset management activities.	The documented information describing the main elements of the asset management system (process(es)) and their interaction.
62	Information management	What has the organisation done to determine what its asset management information system(s) should contain in order to support its asset management system?				Effective asset management requires appropriate information to be available. Widely used AM standards therefore require the organisation to identify the asset management information it requires in order to support its asset management system. Some of the information required may be held by suppliers. The maintenance and development of asset management information systems is a poorly understood specialist activity that is akin to IT management but different from IT management. This group of questions provides some indications as to whether the capability is available and applied. Note: To be effective, an asset information management system requires the mobilisation of technology, people and process(es) that create, secure, make available and destroy the information required to support the asset management system.	The organisation's strategic planning team. The management team that has overall responsibility for asset management. Information management team. Operations, maintenance and engineering managers	Details of the process the organisation has employed to determine what its asset information system should contain in order to support its asset management system. Evidence that this has been effectively implemented.
63	Information management	How does the organisation maintain its asset management information system(s) and ensure that the data held within it (them) is of the requisite quality and accuracy and is consistent?				The response to the questions is progressive. A higher scale cannot be awarded without achieving the requirements of the lower scale. This question explores how the organisation ensures that information management meets widely used AM practice requirements (eg, s 4.4.6 (a), (c) and (d) of PAS 55).	The management team that has overall responsibility for asset management. Users of the organisational information systems.	The asset management information system, together with the policies, procedure(s), improvement initiatives and audits regarding information controls.

Company Name AMP Planning Period Asset Management Standard Applied							
SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)							
Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
53	Communication, participation and consultation	How does the organisation ensure that pertinent asset management information is effectively communicated to and from employees and other stakeholders, including contracted service providers?	The organisation has not recognised the need to formally communicate any asset management information.	There is evidence that the pertinent asset management information to be shared along with those to share it with is being determined.	The organisation has determined pertinent information and relevant parties. Some effective two way communication is in place but as yet not all relevant parties are clear on their roles and responsibilities with respect to asset management information.	Two way communication is in place between all relevant parties, ensuring that information is effectively communicated to match the requirements of asset management strategy, plan(s) and process(es). Pertinent asset information requirements are regularly reviewed.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
59	Asset Management System documentation	What documentation has the organisation established to describe the main elements of its asset management system and interactions between them?	The organisation has not established documentation that describes the main elements of the asset management system.	The organisation is aware of the need to put documentation in place and is in the process of determining how to document the main elements of its asset management system.	The organisation is in the process of documenting its asset management system and has documentation in place that describes some, but not all, of the main elements of its asset management system and their interaction.	The organisation has established documentation that comprehensively describes all the main elements of its asset management system and the interactions between them. The documentation is kept up to date.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
62	Information management	What has the organisation done to determine what its asset management information system(s) should contain in order to support its asset management system?	The organisation has not considered what asset management information is required.	The organisation is aware of the need to determine in a structured manner what its asset information system should contain in order to support its asset management system and is in the process of deciding how to do this.	The organisation has developed a structured process to determine what its asset information system should contain in order to support its asset management system and has commenced implementation of the process.	The organisation has determined what its asset information system should contain in order to support its asset management system. The requirements relate to the whole life cycle and cover information originating from both internal and external sources.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
63	Information management	How does the organisation maintain its asset management information system(s) and ensure that the data held within it (them) is of the requisite quality and accuracy and is consistent?	There are no formal controls in place or controls are extremely limited in scope and/or effectiveness.	The organisation is aware of the need for effective controls and is in the process of developing an appropriate control process(es).	The organisation has developed a controls that will ensure the data held is of the requisite quality and accuracy and is consistent and is in the process of implementing them.	The organisation has effective controls in place that ensure the data held is of the requisite quality and accuracy and is consistent. The controls are regularly reviewed and improved where necessary.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

<div style="display: flex; justify-content: space-between;"> SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont) <div style="border: 1px solid black; padding: 2px;"> Company Name AMP Planning Period Asset Management Standard Applied </div> </div>								
Question No.	Function	Question	Score	Evidence— Summary	User Guidance	Why	Who	Record/documentd Information
64	Information management	How has the organisation's ensured its asset management information system is relevant to its needs?				Widely used AM standards need not be prescriptive about the form of the asset management information system, but simply require that the asset management information system is appropriate to the organisations needs, can be effectively used and can supply information which is consistent and of the requisite quality and accuracy.	The organisation's strategic planning team. The management team that has overall responsibility for asset management. Information management team. Users of the organisational information systems.	The documented process the organisation employs to ensure its asset management information system aligns with its asset management requirements. Minutes of information systems review meetings involving users.
69	Risk management process(es)	How has the organisation documented process(es) and/or procedure(s) for the identification and assessment of asset and asset management related risks throughout the asset life cycle?				Risk management is an important foundation for proactive asset management. Its overall purpose is to understand the cause, effect and likelihood of adverse events occurring, to optimally manage such risks to an acceptable level, and to provide an audit trail for the management of risks. Widely used standards require the organisation to have process(es) and/or procedure(s) in place that set out how the organisation identifies and assesses asset and asset management related risks. The risks have to be considered across the four phases of the asset lifecycle (eg, para 4.3.3 of PAS 55).	The top management team in conjunction with the organisation's senior risk management representatives. There may also be input from the organisation's Safety, Health and Environment team. Staff who carry out risk identification and assessment.	The organisation's risk management framework and/or evidence of specific process(es) and/ or procedure(s) that deal with risk control mechanisms. Evidence that the process(es) and/or procedure(s) are implemented across the business and maintained. Evidence of agendas and minutes from risk management meetings. Evidence of feedback in to process(es) and/or procedure(s) as a result of incident investigation(s). Risk registers and assessments.
79	Use and maintenance of asset risk information	How does the organisation ensure that the results of risk assessments provide input into the identification of adequate resources and training and competency needs?				Widely used AM standards require that the output from risk assessments are considered and that adequate resource (including staff) and training is identified to match the requirements. It is a further requirement that the effects of the control measures are considered, as there may be implications in resources and training required to achieve other objectives.	Staff responsible for risk assessment and those responsible for developing and approving resource and training plan(s). There may also be input from the organisation's Safety, Health and Environment team.	The organisations risk management framework. The organisation's resourcing plan(s) and training and competency plan(s). The organisation should be able to demonstrate appropriate linkages between the content of resource plan(s) and training and competency plan(s) to the risk assessments and risk control measures that have been developed.
82	Legal and other requirements	What procedure does the organisation have to identify and provide access to its legal, regulatory, statutory and other asset management requirements, and how is requirements incorporated into the asset management system?				In order for an organisation to comply with its legal, regulatory, statutory and other asset management requirements, the organisation first needs to ensure that it knows what they are (eg, PAS 55 specifies this in s 4.4.8). It is necessary to have systematic and auditable mechanisms in place to identify new and changing requirements. Widely used AM standards also require that requirements are incorporated into the asset management system (e.g. procedure(s) and process(es))	Top management. The organisations regulatory team. The organisation's legal team or advisors. The management team with overall responsibility for the asset management system. The organisation's health and safety team or advisors. The organisation's policy making team.	The organisational processes and procedures for ensuring information of this type is identified, made accessible to those requiring the information and is incorporated into asset management strategy and objectives
88	Life Cycle Activities	How does the organisation establish implement and maintain process(es) for the implementation of its asset management plan(s) and control of activities across the creation, acquisition or enhancement of assets. This includes design, modification, procurement, construction and commissioning activities?				Life cycle activities are about the implementation of asset management plan(s) i.e. they are the "doing" phase. They need to be done effectively and well in order for asset management to have any practical meaning. As a consequence, widely used standards (eg, PAS 55 s 4.5.1) require organisations to have in place appropriate process(es) and procedure(s) for the implementation of asset management plan(s) and control of lifecycle activities. This question explores those aspects relevant to asset creation.	Asset managers, design staff, construction staff and project managers from other impacted areas of the business, e.g. Procurement	Documented process(es) and procedure(s) which are relevant to demonstrating the effective management and control of life cycle activities during asset creation, acquisition, enhancement including design, modification, procurement, construction and commissioning.

Company Name _____ AMP Planning Period _____ Asset Management Standard Applied _____							
SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)							
Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
64	Information management	How has the organisation's ensured its asset management information system is relevant to its needs?	The organisation has not considered the need to determine the relevance of its management information system. At present there are major gaps between what the information system provides and the organisations needs.	The organisation understands the need to ensure its asset management information system is relevant to its needs and is determining an appropriate means by which it will achieve this. At present there are significant gaps between what the information system provides and the organisations needs.	The organisation has developed and is implementing a process to ensure its asset management information system is relevant to its needs. Gaps between what the information system provides and the organisations needs have been identified and action is being taken to close them.	The organisation's asset management information system aligns with its asset management requirements. Users can confirm that it is relevant to their needs.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
69	Risk management process(es)	How has the organisation documented process(es) and/or procedure(s) for the identification and assessment of asset and asset management related risks throughout the asset life cycle?	The organisation has not considered the need to document process(es) and/or procedure(s) for the identification and assessment of asset and asset management related risks throughout the asset life cycle.	The organisation is aware of the need to document the management of asset related risk across the asset lifecycle. The organisation has plan(s) to formally document all relevant process(es) and procedure(s) or has already commenced this activity.	The organisation is in the process of documenting the identification and assessment of asset related risk across the asset lifecycle but it is incomplete or there are inconsistencies between approaches and a lack of integration.	Identification and assessment of asset related risk across the asset lifecycle is fully documented. The organisation can demonstrate that appropriate documented mechanisms are integrated across life cycle phases and are being consistently applied.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
79	Use and maintenance of asset risk information	How does the organisation ensure that the results of risk assessments provide input into the identification of adequate resources and training and competency needs?	The organisation has not considered the need to conduct risk assessments.	The organisation is aware of the need to consider the results of risk assessments and effects of risk control measures to provide input into reviews of resources, training and competency needs. Current input is typically ad-hoc and reactive.	The organisation is in the process ensuring that outputs of risk assessment are included in developing requirements for resources and training. The implementation is incomplete and there are gaps and inconsistencies.	Outputs from risk assessments are consistently and systematically used as inputs to develop resources, training and competency requirements. Examples and evidence is available.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
82	Legal and other requirements	What procedure does the organisation have to identify and provide access to its legal, regulatory, statutory and other asset management requirements, and how is requirements incorporated into the asset management system?	The organisation has not considered the need to identify its legal, regulatory, statutory and other asset management requirements.	The organisation identifies some its legal, regulatory, statutory and other asset management requirements, but this is done in an ad-hoc manner in the absence of a procedure.	The organisation has procedure(s) to identify its legal, regulatory, statutory and other asset management requirements, but the information is not kept up to date, inadequate or inconsistently managed.	Evidence exists to demonstrate that the organisation's legal, regulatory, statutory and other asset management requirements are identified and kept up to date. Systematic mechanisms for identifying relevant legal and statutory requirements.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
88	Life Cycle Activities	How does the organisation establish implement and maintain process(es) for the implementation of its asset management plan(s) and control of activities across the creation, acquisition or enhancement of assets. This includes design, modification, procurement, construction and commissioning activities?	The organisation does not have process(es) in place to manage and control the implementation of asset management plan(s) during activities related to asset creation including design, modification, procurement, construction and commissioning.	The organisation is aware of the need to have process(es) and procedure(s) in place to manage and control the implementation of asset management plan(s) during activities related to asset creation including design, modification, procurement, construction and commissioning but currently do not have these in place (note: procedure(s) may exist but they are inconsistent/incomplete).	The organisation is in the process of putting in place process(es) and procedure(s) to manage and control the implementation of asset management plan(s) during activities related to asset creation including design, modification, procurement, construction and commissioning. Gaps and inconsistencies are being addressed.	Effective process(es) and procedure(s) are in place to manage and control the implementation of asset management plan(s) during activities related to asset creation including design, modification, procurement, construction and commissioning.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

<div style="text-align: right;"> Company Name _____ AMP Planning Period _____ Asset Management Standard Applied _____ </div> SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)								
Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
91	Life Cycle Activities	How does the organisation ensure that process(es) and/or procedure(s) for the implementation of asset management plan(s) and control of activities during maintenance (and inspection) of assets are sufficient to ensure activities are carried out under specified conditions, are consistent with asset management strategy and control cost, risk and				Having documented process(es) which ensure the asset management plan(s) are implemented in accordance with any specified conditions, in a manner consistent with the asset management policy, strategy and objectives and in such a way that cost, risk and asset system performance are appropriately controlled is critical. They are an essential part of turning intention into action (eg, as required by PAS 55 s 4.5.1).	Asset managers, operations managers, maintenance managers and project managers from other impacted areas of the business	Documented procedure for review. Documented procedure for audit of process delivery. Records of previous audits, improvement actions and documented confirmation that actions have been carried out.
95	Performance and condition monitoring	How does the organisation measure the performance and condition of its assets?				Widely used AM standards require that organisations establish implement and maintain procedure(s) to monitor and measure the performance and/or condition of assets and asset systems. They further set out requirements in some detail for reactive and proactive monitoring, and leading/lagging performance indicators together with the monitoring or results to provide input to corrective actions and continual improvement. There is an expectation that performance and condition monitoring will provide input to improving asset management strategy, objectives and plan(s).	A broad cross-section of the people involved in the organisation's asset-related activities from data input to decision-makers, i.e. an end-to end assessment. This should include contactors and other relevant third parties as appropriate.	Functional policy and/or strategy documents for performance or condition monitoring and measurement. The organisation's performance monitoring frameworks, balanced scorecards etc. Evidence of the reviews of any appropriate performance indicators and the action lists resulting from these reviews. Reports and trend analysis using performance and condition information. Evidence of the use of performance and condition information shaping improvements and supporting asset management strategy, objectives and plan(s).
99	Investigation of asset-related failures, incidents and nonconformities	How does the organisation ensure responsibility and the authority for the handling, investigation and mitigation of asset-related failures, incidents and emergency situations and non conformances is clear, unambiguous, understood and communicated?				Widely used AM standards require that the organisation establishes implements and maintains process(es) for the handling and investigation of failures incidents and non-conformities for assets and sets down a number of expectations. Specifically this question examines the requirement to define clearly responsibilities and authorities for these activities, and communicate these unambiguously to relevant people including external stakeholders if appropriate.	The organisation's safety and environment management team. The team with overall responsibility for the management of the assets. People who have appointed roles within the asset-related investigation procedure, from those who carry out the investigations to senior management who review the recommendations. Operational controllers responsible for managing the asset base under fault conditions and maintaining services to consumers. Contractors and other third parties as appropriate.	Process(es) and procedure(s) for the handling, investigation and mitigation of asset-related failures, incidents and emergency situations and non conformances. Documentation of assigned responsibilities and authority to employees. Job Descriptions, Audit reports. Common communication systems i.e. all Job Descriptions on Internet etc.
105	Audit	What has the organisation done to establish procedure(s) for the audit of its asset management system (process(es))?				This question seeks to explore what the organisation has done to comply with the standard practice AM audit requirements (eg, the associated requirements of PAS 55 s 4.6.4 and its linkages to s 4.7).	The management team responsible for its asset management procedure(s). The team with overall responsibility for the management of the assets. Audit teams, together with key staff responsible for asset management. For example, Asset Management Director, Engineering Director. People with responsibility for carrying out risk assessments	The organisation's asset-related audit procedure(s). The organisation's methodology(s) by which it determined the scope and frequency of the audits and the criteria by which it identified the appropriate audit personnel. Audit schedules, reports etc. Evidence of the procedure(s) by which the audit results are presented, together with any subsequent communications. The risk assessment schedule or risk registers.

Company Name AMP Planning Period Asset Management Standard Applied							
SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)							
Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
91	Life Cycle Activities	How does the organisation ensure that process(es) and/or procedure(s) for the implementation of asset management plan(s) and control of activities during maintenance (and inspection) of assets are sufficient to ensure activities are carried out under specified conditions, are consistent with asset management strategy and control cost, risk and	The organisation does not have process(es)/procedure(s) in place to control or manage the implementation of asset management plan(s) during this life cycle phase.	The organisation is aware of the need to have process(es) and procedure(s) in place to manage and control the implementation of asset management plan(s) during this life cycle phase but currently do not have these in place and/or there is no mechanism for confirming they are effective and where needed modifying them.	The organisation is in the process of putting in place process(es) and procedure(s) to manage and control the implementation of asset management plan(s) during this life cycle phase. They include a process for confirming the process(es)/procedure(s) are effective and if necessary carrying out modifications.	The organisation has in place process(es) and procedure(s) to manage and control the implementation of asset management plan(s) during this life cycle phase. They include a process, which is itself regularly reviewed to ensure it is effective, for confirming the process(es)/ procedure(s) are effective and if necessary carrying out modifications.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
95	Performance and condition monitoring	How does the organisation measure the performance and condition of its assets?	The organisation has not considered how to monitor the performance and condition of its assets.	The organisation recognises the need for monitoring asset performance but has not developed a coherent approach. Measures are incomplete, predominantly reactive and lagging. There is no linkage to asset management objectives.	The organisation is developing coherent asset performance monitoring linked to asset management objectives. Reactive and proactive measures are in place. Use is being made of leading indicators and analysis. Gaps and inconsistencies remain.	Consistent asset performance monitoring linked to asset management objectives is in place and universally used including reactive and proactive measures. Data quality management and review process are appropriate. Evidence of leading indicators and analysis.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
99	Investigation of asset-related failures, incidents and nonconformities	How does the organisation ensure responsibility and the authority for the handling, investigation and mitigation of asset-related failures, incidents and emergency situations and non conformance is clear, unambiguous, understood and communicated?	The organisation has not considered the need to define the appropriate responsibilities and the authorities.	The organisation understands the requirements and is in the process of determining how to define them.	The organisation are in the process of defining the responsibilities and authorities with evidence. Alternatively there are some gaps or inconsistencies in the identified responsibilities/authorities.	The organisation have defined the appropriate responsibilities and authorities and evidence is available to show that these are applied across the business and kept up to date.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
105	Audit	What has the organisation done to establish procedure(s) for the audit of its asset management system (process(es))?	The organisation has not recognised the need to establish procedure(s) for the audit of its asset management system.	The organisation understands the need for audit procedure(s) and is determining the appropriate scope, frequency and methodology(s).	The organisation is establishing its audit procedure(s) but they do not yet cover all the appropriate asset-related activities.	The organisation can demonstrate that its audit procedure(s) cover all the appropriate asset-related activities and the associated reporting of audit results. Audits are to an appropriate level of detail and consistently managed.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

Company Name _____ AMP Planning Period _____ Asset Management Standard Applied _____								
SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)								
Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/document Information
109	Corrective & Preventative action	How does the organisation instigate appropriate corrective and/or preventive actions to eliminate or prevent the causes of identified poor performance and non conformance?				Having investigated asset related failures, incidents and non-conformances, and taken action to mitigate their consequences, an organisation is required to implement preventative and corrective actions to address root causes. Incident and failure investigations are only useful if appropriate actions are taken as a result to assess changes to a businesses risk profile and ensure that appropriate arrangements are in place should a recurrence of the incident happen. Widely used AM standards also require that necessary changes arising from preventive or corrective action are made to the asset management system.	The management team responsible for its asset management procedure(s). The team with overall responsibility for the management of the assets. Audit and incident investigation teams. Staff responsible for planning and managing corrective and preventive actions.	Analysis records, meeting notes and minutes, modification records. Asset management plan(s), investigation reports, audit reports, improvement programmes and projects. Recorded changes to asset management procedure(s) and process(es). Condition and performance reviews. Maintenance reviews
113	Continual Improvement	How does the organisation achieve continual improvement in the optimal combination of costs, asset related risks and the performance and condition of assets and asset systems across the whole life cycle?				Widely used AM standards have requirements to establish, implement and maintain process(es)/procedure(s) for identifying, assessing, prioritising and implementing actions to achieve continual improvement. Specifically there is a requirement to demonstrate continual improvement in optimisation of cost risk and performance/condition of assets across the life cycle. This question explores an organisation's capabilities in this area—looking for systematic improvement mechanisms rather than reviews and audit (which are separately examined).	The top management of the organisation. The manager/team responsible for managing the organisation's asset management system, including its continual improvement. Managers responsible for policy development and implementation.	Records showing systematic exploration of improvement. Evidence of new techniques being explored and implemented. Changes in procedure(s) and process(es) reflecting improved use of optimisation tools/techniques and available information. Evidence of working parties and research.
115	Continual Improvement	How does the organisation seek and acquire knowledge about new asset management related technology and practices, and evaluate their potential benefit to the organisation?				One important aspect of continual improvement is where an organisation looks beyond its existing boundaries and knowledge base to look at what 'new things are on the market'. These new things can include equipment, process(es), tools, etc. An organisation which does this (eg, by the PAS 55 s 4.6 standards) will be able to demonstrate that it continually seeks to expand its knowledge of all things affecting its asset management approach and capabilities. The organisation will be able to demonstrate that it identifies any such opportunities to improve, evaluates them for suitability to its own organisation and implements them as appropriate. This question explores an organisation's approach to this activity.	The top management of the organisation. The manager/team responsible for managing the organisation's asset management system, including its continual improvement. People who monitor the various items that require monitoring for 'change'. People that implement changes to the organisation's policy, strategy, etc. People within an organisation with responsibility for investigating, evaluating, recommending and implementing new tools and techniques, etc.	Research and development projects and records, benchmarking and participation knowledge exchange professional forums. Evidence of correspondence relating to knowledge acquisition. Examples of change implementation and evaluation of new tools, and techniques linked to asset management strategy and objectives.

<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="flex: 1;"> <p>SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)</p> </div> <div style="flex: 1; text-align: right;"> <p><i>Company Name</i> _____ <i>AMP Planning Period</i> _____ <i>Asset Management Standard Applied</i> _____</p> </div> </div>							
Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
109	Corrective & Preventative action	How does the organisation instigate appropriate corrective and/or preventative actions to eliminate or prevent the causes of identified poor performance and non conformance?	The organisation does not recognise the need to have systematic approaches to instigating corrective or preventative actions.	The organisation recognises the need to have systematic approaches to instigating corrective or preventative actions. There is ad-hoc implementation for corrective actions to address failures of assets but not the asset management system.	The need is recognized for systematic instigation of preventive and corrective actions to address root causes of non compliance or incidents identified by investigations, compliance evaluation or audit. It is only partially or inconsistently in place.	Mechanisms are consistently in place and effective for the systematic instigation of preventive and corrective actions to address root causes of non compliance or incidents identified by investigations, compliance evaluation or audit.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
113	Continual Improvement	How does the organisation achieve continual improvement in the optimal combination of costs, asset related risks and the performance and condition of assets and asset systems across the whole life cycle?	The organisation does not consider continual improvement of these factors to be a requirement, or has not considered the issue.	A Continual Improvement ethos is recognised as beneficial, however it has just been started, and or covers partially the asset drivers.	Continuous improvement process(es) are set out and include consideration of cost risk, performance and condition for assets managed across the whole life cycle but it is not yet being systematically applied.	There is evidence to show that continuous improvement process(es) which include consideration of cost risk, performance and condition for assets managed across the whole life cycle are being systematically applied.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
115	Continual Improvement	How does the organisation seek and acquire knowledge about new asset management related technology and practices, and evaluate their potential benefit to the organisation?	The organisation makes no attempt to seek knowledge about new asset management related technology or practices.	The organisation is inward looking, however it recognises that asset management is not sector specific and other sectors have developed good practice and new ideas that could apply. Ad-hoc approach.	The organisation has initiated asset management communication within sector to share and, or identify 'new' to sector asset management practices and seeks to evaluate them.	The organisation actively engages internally and externally with other asset management practitioners, professional bodies and relevant conferences. Actively investigates and evaluates new practices and evolves its asset management activities using appropriate developments.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

Schedule 14 Mandatory Explanatory Notes

1. This schedule requires GTBs to provide explanatory notes to information provided in accordance with clauses 2.3.1, 2.4.20, subclause 2.5.1(1)(e) and clause 2.12.2.
2. This schedule is mandatory—GTBs must provide the explanatory comment specified below, in accordance with clause 2.7.1. Information provided in boxes 1 to 12 and 17 of this schedule is part of the audited disclosure information, and so is subject to the assurance requirements specified in section 2.8.
3. Schedule 15 (Voluntary Explanatory Notes to Schedules) provides for GTBs to give additional explanation of disclosed information should they elect to do so.

Mandatory explanatory notes

Return on Investment (Schedule 2)

4. In the box below, comment on return on investment as disclosed in Schedule 2. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

Box 1: Explanatory comment on return on investment

[Insert text here]

Regulatory Profit (Schedule 3)

5. In the box below, comment on regulatory profit for the disclosure year as disclosed in Schedule 3. This comment must include-
 - 5.1 a description of material items included in 'other regulated income' other than gains / (losses) on asset disposals, as disclosed in Schedule 3(i)
 - 5.2 information on reclassified items in accordance with subclause 2.7.1(2).

Box 2: Explanatory comment on regulatory profit

[Insert text here]

Merger and acquisition expenses (3(iv) of Schedule 3)

6. If the GTB incurred merger and acquisitions expenditure during the disclosure year, provide the following information in the box below-

- 6.1 information on reclassified items in accordance with subclause 2.7.1(2)
- 6.2 any other commentary on the benefits of the merger and acquisition expenditure to the GTB.

Box 3: Explanatory comment on merger and acquisition expenditure

[Insert text here]

Value of the Regulatory Asset Base (Schedule 4)

7. In the box below, comment on the value of the regulatory asset base (rolled forward) in Schedule 4. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

Box 4: Explanatory comment on the value of the regulatory asset based (rolled forward)

[Insert text here]

Regulatory tax allowance: disclosure of permanent differences (5a(i) of Schedule 5a)

8. In the box below, provide descriptions and workings of the material permanent differences included in the following items, as recorded in the asterisked categories in 5a(i) of Schedule 5a:
 - 8.1 Income not included in regulatory profit / (loss) before tax but taxable
 - 8.2 Expenditure or loss in regulatory profit / (loss) before tax but not deductible
 - 8.3 Other income included in regulatory profit / (loss) before tax but not taxable
 - 8.4 Expenditure or loss deductible but not in regulatory profit / (loss) before tax

Box 5: Regulatory tax allowance: permanent differences

[Insert text here]

Regulatory tax allowance: disclosure of temporary differences (5a(i) of Schedule 5a)

9. In the box below, provide descriptions and workings of the material temporary differences included in the following items, as recorded in the asterisked categories in 5a(i) of Schedule 5a(ii):

9.1 Income not included in regulatory profit / (loss) before tax but taxable

9.2 Expenditure or loss in regulatory profit / (loss) before tax but not deductible

9.3 Other income included in regulatory profit / (loss) before tax but not taxable

9.4 Expenditure or loss deductible but not in regulatory profit / (loss) before tax

Box 6: Temporary differences

[Insert text here]

Related party transactions: disclosure of related party transactions (Schedule 5b)

10. In the box below, provide descriptions of related party transactions beyond those disclosed in Schedule 5b including identification and descriptions as to the nature of directly attributable costs disclosed under subclause 2.3.7(2)(b).

Box 7: Related party transactions

[Insert text here]

Cost allocation (Schedule 5d)

11. In the box below, comment on cost allocation as disclosed in Schedule 5d. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

Box 8: Cost allocation

[Insert text here]

Asset allocation (Schedule 5e)

12. In the box below, comment on asset allocation as disclosed in Schedule 5e. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

Box 9: Commentary on asset allocation

[Insert text here]

Capital Expenditure for the Disclosure Year (Schedule 6a)

13. In the box below, comment on expenditure on assets for the disclosure year, as disclosed in Schedule 6a. This comment must include-
- 13.1 a description of the materiality threshold applied to identify material projects and programmes described in Schedule 6a;
 - 13.2 information on reclassified items in accordance with subclause 2.7.1(2)

Box 10: Explanation of capital expenditure for the disclosure year

[Insert text here]

Operational Expenditure for the Disclosure Year (Schedule 6b)

14. In the box below, comment on operational expenditure for the disclosure year, as disclosed in Schedule 6b. This comment must include-
- 14.1 Commentary on assets replaced or renewed with asset replacement and renewal operational expenditure, as reported Schedule 6b(i)
 - 14.2 Information on reclassified items in accordance with subclause 2.7.1(2)
 - 14.3 Commentary on any material atypical expenditure included in operational expenditure disclosed in Schedule 6b, a including the value of the expenditure the purpose of the expenditure, and the operational expenditure categories the expenditure relates to.

Box 11: Explanation of operational expenditure for the disclosure year

[Insert text here]

Variance between forecast and actual expenditure (Schedule 7)

15. In the box below, comment on variance in actual to forecast expenditure for the disclosure year, as reported in Schedule 7. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

Box 12: Explanatory comment on variance in actual to forecast expenditure

[Insert text here]

Information relating to revenues and quantities for the disclosure year

16. In the box below, please explain reasons for any material differences between target revenue disclosed before the start of the pricing year in accordance with clause 2.4.1 and subclause 2.4.3(3), and total billed line charge revenue for the disclosure year as disclosed in Schedule 8.

Box 13: Explanatory comment relating to revenue for the disclosure year

[Insert text here]

17. If prices or price category codes (as applicable) have been changed in a disclosure year, please explain in the box below the effect of this on the allocation of quantities and revenues between connection types or contract types (as applicable) disclosed in Schedule 8.

Box 14: Explanatory comment relating to changed prices or price category codes

[Insert text here]

Network Reliability for the Disclosure Year (Schedule 10a)

18. In the box below, comment on network reliability for the disclosure year, as disclosed in Schedule 10a.

Box 15: Commentary on network reliability for the disclosure year

[Insert text here]

Insurance cover

19. In the box below, provide details of any insurance cover for the assets, including-

19.1 The GTB's approaches and practices in regard to the insurance of assets, including the level of insurance;

19.2 In respect of any self insurance, the level of reserves, details of how reserves are managed and invested, and details of any reinsurance.

Box 16: Explanation of insurance cover

[Insert text here]

Amendments to previously disclosed information

20. In the box below, provide details of any material error identified in previously disclosed information. This disclosure must include the information on previously disclosed information in accordance with 2.12.2.

Box 17: Disclosure of amendment to previously disclosed information

[Insert text here]

Schedule 14a Mandatory Explanatory Notes on Forecast Information

1. This Schedule requires GTBs to provide explanatory notes to reports prepared in accordance with clause 2.6.5.
2. This Schedule is mandatory. GTBs must provide the explanatory comment specified below, in accordance with clause 2.7.2. This information is not part of the audited disclosure information, and so is not subject to the assurance requirements specified in section 2.8.

Commentary on difference between nominal and constant price capital expenditure forecasts (Schedule 11a)

3. In the box below, comment on the difference between nominal and constant price capital expenditure for the current disclosure year and the 10 year planning period, as disclosed in Schedule 11a.

Box 1: Commentary on difference between nominal and constant price capital expenditure forecasts
[Insert text here]

Commentary on difference between nominal and constant price operational expenditure forecasts (Schedule 11b)

4. In the box below, comment on the difference between nominal and constant price operational expenditure for the current disclosure year and the 10 year planning period, as disclosed in Schedule 11b.

Box 2: Commentary on difference between nominal and constant price operational expenditure forecasts
[Insert text here]

Schedule 15 Voluntary Explanatory Notes

1. This schedule enables GTBs to provide, should they wish to-
 - 1.1 additional explanatory comment to reports prepared in accordance with clauses 2.3.1, 2.4.20, 2.5.1, and 2.5.2;
 - 1.2 information on any substantial changes to information disclosed in relation to a prior disclosure year, as a result of final wash-ups.
2. Information in this schedule is not part of the audited disclosure information, and so is not subject to the assurance requirements specified in section 2.8.
3. Provide additional explanatory comment in the box below.

Box 1: Voluntary explanatory comment on disclosed information

[Insert text below]

Schedule 16 Definitions of Terms used in Schedules 1 to 15

1. This schedule provides definitions for terms used in Schedules 1 to 15 of this determination.
2. Where terms used in the schedules are defined in section 1.4 of this determination but are not defined below, they have the meanings set out in section 1.4 of this determination. Terms used in the schedules that are defined in the IM determination have the meanings set out in the IM determination. Otherwise, unless defined below, terms used in the schedules have meanings consistent with industry practice.

Term	Definition
% of asset forecast to be replaced in next 5 years	means the % of asset quantity forecast to be replaced in next 5 years consistent with the capital expenditure forecast
% variance	means- $q = \frac{a - b}{b} \times 100$ where: a = actual expenditure b = forecast expenditure
25th percentile estimate	means the 25th percentile estimate for the range of the mid-point post tax WACC or mid-point vanilla WACC determined by the Commission in accordance with clause 2.4.7 of the IM determination
75th percentile estimate	means the 75th percentile estimate for the range of the mid-point post tax WACC or mid-point vanilla WACC determined by the Commission in accordance with clause 2.4.7 of the IM determination
Actual controllable opex	has the meaning given in the IM determination
Actual expenditure	means, in relation to- <ol style="list-style-type: none"> (a) a disclosure year, expenditure for that disclosure year (b) the regulatory period, expenditure for the disclosure years from the start of the regulatory period to the current disclosure year

Adjustment resulting from asset allocation	<p>means-</p> <p>(a) in relation to the works under construction roll-forward, the change in works under construction resulting from a change in asset allocation assumptions for assets included in works under construction, where increases in the value of works under construction are positive and decreases are negative</p> <p>(b) in relation to the regulatory tax asset base roll-forward, the change in sum of regulatory tax asset values resulting from a change in asset allocation assumptions for assets included in sum of regulatory tax asset values, where increases in the value of sum of regulatory tax asset values are positive and decreases are negative</p> <p>(c) in all other instances, the value of q calculated using the following formula-</p> $q = a - (b - c + d + e - f + g)$ <p>where-</p> <p>a = total closing RAB value b = total opening RAB value c = total depreciation d = total revaluations e = assets commissioned f = asset disposals g = lost and found assets adjustment</p> <p>The formula must be calculated using component values that relate to the RAB. These component values are the values that result from the application of clause 2.1.1 of the IM determination</p>
All other projects or programmes	means, within an expenditure category, the total of projects and programmes that are not material projects and programmes.
Allocator metric	has the meaning given in the IM determination
Allocator type	has the meaning given in the IM determination
Allowed controllable opex	has the meaning given in the IM determination
Arm's-length deduction	has the meaning given in the IM determination
Asset category transfers	means the value of an asset transferred between asset categories
Asset condition at start of planning period (percentage of units by grade)	means the proportion of the quantity of each asset class assessed against the asset condition categories (grade 1 to 4), reflecting the likelihood of short, medium or longer term intervention. Suppliers are able to apply their own criteria for intervention when populating the table

Asset disposals (other than below)	means asset disposals other than asset disposals to a regulated supplier and asset disposals to a related party
Asset or assets with changes to depreciation	<p>means a description of assets or groups of assets where the supplier has changed the asset(s)' depreciation profile or the asset(s) was commissioned during the disclosure year; and at least one of the following applies-</p> <p>(a) the asset(s) is a reduced life asset or dedicated asset(s) as those terms are used in clause 2.2.8(5) of the IM determination</p> <p>(b) the asset(s) depreciation profile was changed or set in accordance with the CPP process</p> <p>(c) the asset(s) physical service life potential was determined by an engineer in accordance with clause 2.2.8(3) of the IM determination</p> <p>(d) the GTB chooses to disclose details about the asset(s) depreciation profile</p> <p>the asset is a composite asset (as that term is used in clause 2.2.8(5) of the IM determination) and at least one of the clauses (a) to (d) applies to one of its component assets</p>
Assets acquired from a regulated supplier	<p>means-</p> <p>(a) in relation to the unallocated RAB, the sum of value of assets acquired from another regulated supplier as determined in accordance with clause 2.2.11(1)(e) of the IM determination;</p> <p>(b) in relation to the RAB, the sum of value of the assets (as determined in accordance with paragraph (a)) which is allocated to the gas transmission services in accordance with clause 2.1.1 of the IM determination</p>
Assets acquired from a related party	<p>means-</p> <p>(a) in relation to the unallocated RAB, the sum of value of assets acquired from a related party as determined in accordance with clauses 2.2.11(1)(f) and (g) of the IM determination;</p> <p>(b) in relation to the RAB, the sum of value of the assets (as determined in accordance with paragraph (a)) which is allocated to the gas transmission services in accordance with clause 2.1.1 of the IM determination</p>
Assets commissioned (other than below)	means assets commissioned other than assets acquired from a regulated supplier and assets acquired from a related party
Attribution rate	<p>means-</p> $q = \frac{a \times b}{c}$ <p>where:</p> <p><i>a</i> = average opening and closing RAB values</p> <p><i>b</i> = a leverage rate of 44%</p> <p><i>c</i> = total book value of interest bearing debt</p>
Atypical expenditure	means expenditure on non-network assets that are 'one-off' or 'exceptional'

Average opening and closing RAB values	<p>means-</p> $q = \frac{a + b}{2}$ <p>where: <i>a</i> = opening RAB value <i>b</i> = closing RAB value</p>
Balancing gas costs	means a cost or credit specified in clause 3.1.3(1)(c) of the IM determination
Basis for determining value	means the subclause applied in valuing the related party transactions
Billed quantities	means the quantities associated with price components upon which the consumer's bill for gas transmission services is based, expressed in the units of measure used by the GTB for setting prices (for example volumes of gas delivered in GJ).
Book value	<p>means-</p> <p>(a) in relation to the issue date, the book value in New Zealand dollars of a qualifying debt or non-qualifying debt on the issue date</p> <p>(b) in relation to the date of financial statements, the book value in New Zealand dollars of a qualifying debt or non-qualifying debt as at the end of the period of the GTB's latest general purpose financial statements</p>
Business support	<p>in relation to expenditure, means operational expenditure associated with the following corporate activities-</p> <ul style="list-style-type: none"> • HR and training (other than operational training) • finance and regulation including compliance activities, valuations and auditing • CEO and director costs • legal services • consulting services (excluding engineering/technical consulting) • property management • corporate communications • corporate IT • industry liaison and participation • commercial activities including pricing, billing, revenue collection and marketing • liaison with shippers and welded parties
Capital contributions funding asset relocations	means the value of capital contributions that are paid to the GTB in relation to asset relocation expenditure
Capital contributions funding asset replacement and renewal	means the value of capital contributions that are paid to the GTB in relation to asset replacement and renewal expenditure
Capital contributions funding consumer connection	means the value of capital contributions that are paid to the GTB in relation to consumer connection expenditure

Capital contributions funding legislative and regulatory	means the value of capital contributions that are paid to the GTB in relation to legislative and regulatory expenditure
Capital contributions funding other reliability, safety and environment	means the value of capital contributions that are paid to the GTB in relation to other reliability, safety and environment expenditure
Capital contributions funding quality of supply	means the value of capital contributions that are paid to the GTB in relation to quality of supply expenditure
Capital contributions funding system growth	means the value of capital contributions that are paid to the GTB in relation to system growth expenditure
Cathodic protection	means a system that inhibits the corrosion of a metallic gas pipe by means of an impressed current or sacrificial anodes.
Change in Line Pack (TJ)	means the change in Line Pack during the disclosure year where increases in Line Pack are positive and decreases negative. For the purposes of this definition, Line Pack means the total quantity of gas in the pipeline at any time. Expressed in TJ.
Chromatographs	means a device for measuring the chemical composition of gas at a particular point on the transmission system for the purposes of measuring calorific value and other properties
Closing RAB value under 'non-standard' depreciation	means the closing RAB value or sum of closing RAB values as determined in accordance with Part 2 subpart 2 of the IM determination for the relevant asset or assets with non-standard depreciation
Closing RAB value under 'standard' depreciation	means- <ul style="list-style-type: none"> (a) in relation to assets or groups of assets where depreciation is included in depreciation - no standard life asset, 'not applicable' (b) in relation to assets or groups of assets where depreciation is included in depreciation - modified life assets or depreciation - alternative depreciation determined in accordance with CPP, the sum of closing RAB values as determined in accordance with the IM determination as if the closing RAB value and all preceding closing RAB values had been calculated in accordance with clause 2.1.1 of the IM determination applying a physical asset life determined in accordance with either clause 2.2.8(e)(iii) or (f) of the IM determination for the relevant asset or assets with non-standard depreciation
Closing RIV	means total closing RAB values less adjustment resulting from asset allocation less lost and found assets adjustment
Closing sum of regulatory tax asset values	means the sum of regulatory tax asset values for assets that have a value included in total closing RAB value plus the regulatory tax asset values of assets referred to in clause 2.3.6(4)(b) of the IM determination
Closing tax losses	has the meaning given in clause 2.3.2(4) of the IM determination
Coalescers	means a vessel to coalesce any liquid entrained in the gas and typically incorporates filtration to remove solid contaminants as well as liquid
Commerce Act levies	means a cost specified in clause 3.1.2(2)(b)(i) of the IM determination

Compressor fuel	in relation to expenditure, means operational expenditure where the primary driver is the consumption of natural gas by the compressor fleet.
Compressor stations	means a station where a compressor is present and can be used to increase the pressure of gas flowing in the pipe
Compressors	means the prime mover (engine or turbine), the compressor, the control system and the ancillaries
Connection type	means- (a) in relation to Schedule 8(i), a category of connections as defined by the GTB that describes a type of offtake point connection; and (b) in relation to Schedule 9d, a category of connections as defined by the GTB that describes a type of injection point or type of offtake point connection. These categories should refer to physical connection attributes, or pricing groups, or any other attribute that provides a similar level of disaggregation that will assist interested party analysis.
Consumer type	means a category of consumers as defined by the GTB that is typical of the type of consumers connected to the network. This may refer to categories used for pricing, physical connection attributes or any other attribute that the GTB considers appropriate
Corporate tax rate	has the meaning given in the IM determination
Cost of debt assumption	means the sum of the risk free rate, debt premium estimates and debt issuance costs as published by the Commission in accordance with clauses 2.4.1 to 2.4.11 of the IM determination for each disclosure year
Cost of executing an interest rate swap	has the meaning given in the IM determination
Coupon rate	means- (a) where the information is available publicly, the nominal coupon rate of interest of a qualifying debt on the issue date; (b) where the nominal coupon rate of interest of a qualifying debt on the issue date is not available publicly, either the nominal coupon rate of interest or the basis for determining the nominal coupon rate of interest of a qualifying debt on the issue date
CPI_4	has the meaning given in clause 2.2.9(4) of the IM determination
CPI_4^{-4}	has the meaning given in clause 2.2.9(4) of the IM determination
CPP specified pass through costs	means a cost specified in clause 3.1.2(1)(b)(ii) of the IM determination
Current period tax losses	has the meaning given in clause 2.3.2(5) of the IM determination

Data accuracy (1–4)	<p>means the GTB's assessment of the accuracy of the data provided, using one of the following options-</p> <p>1 – means that good quality data is not available for any of the assets in the category and estimates are likely to contain significant error</p> <p>2 – means that good quality data is available for some assets but not for others and the data provided includes estimates of uncounted assets within the category</p> <p>3 – means that data is available for all assets but includes a level of estimation where there is understood to be some poor quality data for some of the assets within the category</p> <p>4 – means that good quality data is available for all of the assets in the category</p>
Debt issue cost readjustment	has the meaning given in clause 2.4.11(4) of the IM determination
Depreciation - alternative depreciation in accordance with CPP	<p>means-</p> <p>(a) in relation to the unallocated RAB, the sum of unallocated depreciation calculated in accordance with clause 2.2.6 of the IM determination;</p> <p>(b) in relation to the RAB, depreciation calculated in accordance with clause 2.2.6 or 2.2.8(4) of the IM determination</p>
Depreciation - modified life assets	<p>means-</p> <p>(a) in relation to the unallocated RAB, the sum of unallocated depreciation calculated in accordance with clause 2.2.5(1) of the IM determination;</p> <p>(b) in relation to the RAB, depreciation calculated in accordance with clause 2.2.5(2) of the IM determination;</p> <p>of assets with a physical asset life determined in accordance with clauses 2.2.8(1)(b) or 2.2.8(2) of the IM determination or where clauses 2.2.8(1)(d) and 2.2.8(1)(e)(iv) of the IM determination apply with reference to assets with a physical asset life determined in accordance with clauses 2.2.8(1)(b) or 2.2.8(2) of the IM determination</p>
Depreciation - no standard life assets	<p>means-</p> <p>(a) in relation to the unallocated RAB, the sum of unallocated depreciation calculated in accordance with clause 2.2.5(1) of the IM determination;</p> <p>(b) in relation to the RAB, depreciation calculated in accordance with clause 2.2.5(2) of the IM determination;</p> <p>of assets with a physical asset life determined in accordance with clauses 2.2.8(1)(a) or 2.2.8(1)(d) or 2.2.8(1)(e)(iv)-(v) or 2.2.8(1)(g) of the IM determination or where clauses 2.2.8(1)(d) and 2.2.8(1)(e)(iv) of the IM determination apply with reference to assets with a physical asset life determined in accordance with clauses 2.2.8(1)(a) or 2.2.8(1)(d) or 2.2.8(1)(e)(iv)-(v) or 2.2.8(1)(g) of the IM determination</p>
Depreciation - standard	<p>means-</p> <p>(a) in relation to the unallocated RAB, the sum of unallocated depreciation calculated in accordance with clause 2.2.5(1) of the IM determination;</p> <p>(b) in relation to the RAB, depreciation calculated in accordance with clause 2.2.5(2) of the IM determination;</p> <p>excluding depreciation - alternative depreciation in accordance with CPP, depreciation - modified life assets, and depreciation - no standard life assets</p>

Depreciation charge for the period (RAB)	means the depreciation or sum of depreciation as determined in accordance with the IM determination for the relevant asset or assets with non-standard depreciation
Description of transaction	means a brief description of the transaction with a related party, including the goods or services provided to or by the GTB as part of that transaction
Disposed asset	has the meaning given in paragraph (a) of the defined term in the IM determination
Estimated impact of financial incentives on ROI	means- $q = a - b$ where $a = \text{ROI} - \text{comparable to a vanilla WACC}$ $b = \text{ROI} - \text{comparable to a vanilla WACC (excluding financial incentives)}$
Expenditure on non-network assets	means expenditure on assets relating to non-network assets
Expenditure or loss deductible but not in regulatory profit / (loss) before tax	means- (a) in relation to permanent differences, expenditure or loss deductible but not in regulatory profit / (loss) before tax as determined in accordance with clause 2.3.3(3)(b) of the IM determination (b) in relation to temporary differences, expenditure or loss deductible but not in regulatory profit / (loss) before tax as determined in accordance with clause 2.3.5(5)(b) of the IM determination
Expenditure or loss in regulatory profit / (loss) before tax but not deductible	means- (a) in relation to permanent differences, expenditure or loss in regulatory profit / (loss) before tax but not deductible as determined in accordance with clause 2.3.3(2)(b) of the IM determination (b) in relation to temporary differences, expenditure or loss in regulatory profit / (loss) before tax but not deductible as determined in accordance with clause 2.3.5(4)(b) of the IM determination
Expenses cash outflow	means operational expenditure plus pass through and recoverable costs recognised in information disclosure
Financial incentives	means net recoverable costs allowed under incremental rolling incentive scheme
Forecast expenditure	means, in relation to- (a) current disclosure year, the forecast expenditure for the current disclosure year disclosed pursuant to subclauses 2.6.5(1) and 2.6.5(2) of this determination immediately prior to the start of the current disclosure year (b) regulatory period, the forecast expenditure for the disclosure years from the start of the regulatory period to the current disclosure year disclosed pursuant to Part 5 of the IM determination where a CPP is in place for the current disclosure year or disclosed pursuant to subclauses 2.6.5(1) and 2.6.5(2) of this determination prior to the start of the disclosure year preceding the regulatory period where a CPP is not in place for the current disclosure year
Gas entering the network (TJ)	means gas entering the network. This refers to injection volume. Expressed in TJ.

Gas entering the system (TJ)	means gas entering the transmission system. This refers to injection volume and intake volume. Expressed in TJ.
Gas entering system from other system owned by GTB (TJ)	means the difference between gas entering the system (TJ) and gas entering the network (TJ) for the relevant transmission system. Expressed in TJ.
Gas used in compressor stations (TJ)	means gas used in the operation of compressor stations on the network. Expressed in TJ.
Gas used in heating systems (TJ)	means gas used in the operation of heating systems on the network. Expressed in TJ.
Grade 1	means the end of serviceable life, immediate intervention required
Grade 2	means material deterioration but asset condition still within serviceable life parameters. Intervention likely to be required within 3 years.
Grade 3	means normal deterioration requiring regular monitoring
Grade 4	means good or as new condition
Grade unknown	means condition unknown or not yet assessed
Gross term credit spread differential	means the sum of term credit spread difference, cost of executing an interest rate swap and debt issue cost readjustment for qualifying debt
GTB owned transmission system as received from	means the name of the GTB owned transmission system that the relevant transmission system received gas from
Heating system	means a facility for heating the gas flowing in a pipe.
Highest rate of capitalised finance applied	means the highest rate of finance used as the cost of financing capitalised in works under construction
Incident	means any event, including a near miss, that has the potential to impact on the delivery of gas transmission services or the operations of the GTB.
Income included in regulatory profit / (loss) before tax but not taxable	means- (a) in relation to permanent differences, income included in regulatory profit / (loss) before tax but not taxable as determined in accordance with clause 2.3.3(3)(a) of the IM determination (b) in relation to temporary differences, income included in regulatory profit / (loss) before tax but not taxable as determined in accordance with clause 2.3.5(5)(a) of the IM determination
Income not included in regulatory profit / (loss) before tax but taxable	means- (a) in relation to permanent differences, income not included in regulatory profit / (loss) before tax that is taxable as determined in accordance with clause 2.3.3(2)(a) of the IM determination (b) in relation to temporary differences, income not included in regulatory profit / (loss) before tax that is taxable as determined in accordance with clause 2.3.5(4)(a) of the IM determination

Increase in value resulting from revaluations in accordance with 2.2.1(3)(b)	means the value of revaluations as determined in accordance with clause 2.2.1(3)(b) of the IM determination
Incremental gain/(loss) in year	means the incremental change or incremental adjustment term for the disclosure year determined in accordance with clause 3.3.1 of the IM determination
Industry levies	means a cost specified in clauses 3.1.2(1)(b)(i) and 3.1.2(2)(b)(i)-(iii) of the IM determination
Insurance	means a contract of insurance as defined in the Insurance (Prudential Supervision) Act 2010
Issue date	means the day on which a qualifying debt or non-qualifying debt is issued
Items at end of year (quantity)	means the total quantity of assets in the prescribed asset category and asset class installed in the network at the end of the disclosure year, expressed in the prescribed unit
Items at start of year (quantity)	means the total quantity of assets in the prescribed asset category and asset class installed in the network at the start of the disclosure year, expressed in the prescribed unit
Land management and associated activity	means operational expenditure where the primary driver is the management of land and associated activities involved in the maintenance of the pipeline route, and includes- <ul style="list-style-type: none"> • land database (property owners, occupiers and other stakeholders) • communications with landowners, occupiers and other stakeholders • erosion management • monitoring activities on or near the easement • compensation and other associated legal costs
Leverage	has the meaning given in the IM determination
Line charge revenue	means revenue from prices
Line item	has the meaning given in the IM determination
Material projects and programmes	means projects or programmes with actual or forecast total expenditure greater than the materiality threshold that is developed and applied by the GTB
Market value of asset disposals	means the market value of disposed assets sold or transferred to a related party

Merger and acquisition expenditure	means expenditure related to merger and acquisition activities irrespective of the outcome of the merger or acquisition, but proportionate to the extent the benefits of the merger or acquisition would relate to gas transmission services. Disclosure of the benefits to gas transmission services is required for merger and acquisition expenses to be recognised														
Metering system	means devices that measure and record the quantity of gas that has flowed through a point in a period of time and may additionally measure and record the rate of flow														
Mid-point estimate of post tax WACC	means the mid-point estimate of post tax WACC for the 5 year period commencing on the first day of the disclosure year determined by the Commission in accordance with clause 2.4.1 of the IM determination														
Mid-point estimate of vanilla WACC	means the mid-point estimate of vanilla WACC for the 5 year period commencing on the first day of the disclosure year determined by the Commission in accordance with clause 2.4.1 of the IM determination														
Mid-year net cash outflows	means expense cash outflow plus assets commissioned less asset disposals plus regulatory tax allowance less other regulated income														
Monthly net cash outflows	means expenses cash outflow plus assets commissioned less asset disposals less other regulated income														
Monthly ROI – comparable to a post tax WACC	means the monthly ROI comparable to the vanilla WACC less the product of the cost of debt (%), the leverage and the corporate tax rate														
Monthly ROI – comparable to a vanilla WACC	<p>means $q = XIRR(values, dates)$</p> <p>where: <i>XIRR(values, dates)</i> is the excel function that returns an internal rate of return for a schedule of cash flows</p> <p>where the schedule of cash flows and timing are-</p> <table border="0"> <thead> <tr> <th><u>Values</u></th> <th><u>Date</u></th> </tr> </thead> <tbody> <tr> <td>- Opening RIV</td> <td>365 before year-end</td> </tr> <tr> <td>- Monthly net cash outflows</td> <td>15th of the month incurred</td> </tr> <tr> <td>Line charge revenue</td> <td>20th of the month following accrual</td> </tr> <tr> <td>- Regulatory tax allowance</td> <td>182 days before year-end</td> </tr> <tr> <td>- Term credit spread differential allowance</td> <td>Year-end</td> </tr> <tr> <td>Closing RIV</td> <td>Year-end</td> </tr> </tbody> </table> <p>•</p>	<u>Values</u>	<u>Date</u>	- Opening RIV	365 before year-end	- Monthly net cash outflows	15 th of the month incurred	Line charge revenue	20 th of the month following accrual	- Regulatory tax allowance	182 days before year-end	- Term credit spread differential allowance	Year-end	Closing RIV	Year-end
<u>Values</u>	<u>Date</u>														
- Opening RIV	365 before year-end														
- Monthly net cash outflows	15 th of the month incurred														
Line charge revenue	20 th of the month following accrual														
- Regulatory tax allowance	182 days before year-end														
- Term credit spread differential allowance	Year-end														
Closing RIV	Year-end														
Name of related party	means the legal name of the related party that has entered into a transaction with the GTB.														
Net incremental rolling incentive scheme	means the sum of previous years' incremental gain/loss from the 5 disclosure years preceding the current disclosure year														
Net recoverable costs allowed under incremental rolling incentive scheme	means, where- (a) net incremental rolling incentive scheme is positive, net incremental rolling incentive scheme; (b) net incremental rolling incentive scheme is nil or negative, nil														

Network opex	means the sum of operational expenditure relating to service interruptions, incidents and emergencies, routine and corrective maintenance and inspection, asset replacement and renewal, compressor fuel, and land management and associated activity
Network support	<p>in respect of operational expenditure, means costs where the primary driver is the management of the network including-</p> <ul style="list-style-type: none"> • asset management planning including preparation of the AMP, load forecasting, network modelling • network and engineering design (excluding design costs capitalised for capital projects) • network policy development (including the development of environmental, technical and engineering policies) • standards and manuals for network management • network record keeping and asset management databases including GIS • outage recording • connection and customer records/customer management databases • customer queries and call centres • operational training for network management and field staff • operational vehicles and transport • IT & telecoms for network management (including IT support for asset management systems) • day to day customer management including responding to queries on new connections, disconnections and reconnections • engineering and technical consulting • network planning and system studies • logistics (procurement) and stores • network asset site expenses and leases • route/easement management (including locating pipelines for third parties, mark cuts, stand-overs, obstructions, plans and permits) • surveying of new sites to identify work requirements • engineering/technical consulting services (excluding costs capitalised for capital projects) • contractor/contracts management (excluding costs capitalised for capital projects) • transmission operator liaison and management <p>network related research and development</p>
New allocation	means the operating costs or regulated service asset value allocated to gas transmission services in accordance with the new allocator and line items for each of the relevant disclosure years
New allocator or line item	means the allocator or line items that are used subsequent to the change in allocator or line items

No. with age unknown	means the total quantity of assets in the prescribed asset category and asset class installed in the network for which no installation information is known and no default date has been assigned
No. with default dates	means the total quantity of assets in the prescribed asset category and asset class installed in the network at the end of the disclosure year where the original installation year is unknown and that have accordingly been allocated to a default installation year, expressed in the prescribed unit
Non-gas transmission services	means services of the GTB that are not gas transmission services
Non-network opex	means the sum of operational expenditure relating to system operations, network support and business support
Non-qualifying debt	means interest bearing debt that is not a qualifying debt
Notional deductible interest	has the meaning given in clause 2.3.1(5) of the IM determination
Notional revenue foregone from posted discounts	means, for the purposes of Schedule 8, the revenue anticipated from posted discounts had they not been applied. Posted discounts means a discount to charges payable for the supply of gas pipeline services (a) that is offered by the GTB in a published tariff schedule; and (b) the take-up of which is determined by consumers.
Number of assets at disclosure year end by installation date	means the total quantity of assets in the prescribed asset category and asset class installed in the network at the end of the disclosure year that were first installed in the prescribed year, expressed in the prescribed unit
Number of confirmed public reported gas escapes per system length (escapes/1000 km)	means any escape of gas confirmed by the GTB excluding third party damage events, routine surveys find and no traces events
Number of connection points	means the number of injection and offtake points
Number of new connections	means the number of new injection and offtake points in the disclosure year
Odourisation plant	means a plant where an odourant is added into the gas stream
Opening RIV	means total opening RAB value
Opening sum of regulatory tax asset values	means the sum of regulatory tax asset values for assets included in the total opening RAB value plus the regulatory tax asset values of assets referred to in clause 2.3.6(4)(b) of the IM determination
Opening tax losses	has the meaning given in clause 2.3.2(3) of the IM determination

Opening value of fully depreciated, disposed and lost assets	means- (a) in relation to the unallocated RAB, the sum of unallocated RAB values of assets included in the total opening RAB values that are fully depreciated during the disclosure year, asset disposals and lost assets included in lost and found assets adjustment; (b) in relation to the RAB, the sum of RAB values of assets included in the total opening RAB values of assets that are fully depreciated during the disclosure year, asset disposals and lost assets included in the lost and found assets adjustment
Operating surplus / (deficit)	means total regulatory income less operational expenditure less pass through and recoverable costs recognised in information disclosure
Original allocation	means the operational expenditure or regulated service asset values allocated to gas transmission services in accordance with the allocations and line items made in the previous disclosure year
Original allocator or line items	means the allocator or line items that were used prior to the change in allocator or line items
Original tenor	means- (a) where the qualifying debt or non-qualifying debt is not issued to a related party, the term of a qualifying debt or non-qualifying debt at the issue date; (b) where the qualifying debt or non-qualifying debt is issued to a related party, the shorter of the- (i) the tenor of the qualifying debt; or (ii) the period from the qualifying debt's issue date to the earliest date on which its repayment is or may be required
Other adjustments to the RAB tax value	means- $q = a - (b + c - d - e - f - g)$ where- <i>a</i> = closing sum of regulatory tax asset value values <i>b</i> = opening sum of regulatory tax asset values <i>c</i> = regulatory tax asset value of assets commissioned <i>d</i> = regulatory tax asset value of asset disposals <i>e</i> = tax depreciation <i>f</i> = lost and found assets adjustment <i>g</i> = adjustment resulting from asset allocation
Other income not included in regulatory profit / (loss) before tax but taxable	means income not included in regulatory profit / (loss) before tax that is taxable as determined in accordance with clause 2.3.5(4)(a) of the IM determination less revaluations
Other related party transactions	means the value of related party transactions that are not disclosed as total regulatory income, operational expenditure, capital expenditure or market value of asset disposals
Other stations	means a station other than a compressor station
OVABAA allocation increase	has the meaning given in the IM determination

Pass through and recoverable costs recognised in information disclosure	means the sum of rates, Commerce Act levies, industry levies, CPP specified pass through costs and balancing gas costs
Previous years' incremental gain/(loss)	means the incremental change or incremental adjustment term for the disclosure year in question determined in accordance with clause 3.3.1 of the IM determination
Previous years' incremental gain/(loss) adjusted for inflation	means the previous years' incremental gain/(loss) carried forward by applying the inflation rate in accordance with clause 3.3.2(1) of the IM determination
Price category code	means the relevant code in the schedule published by the GTB that is used to unambiguously define line charges for a consumer
Pricing date	means the day on which a qualifying debt is priced
Proportion of emergencies responded to within 3 hours (%)	means the number of emergencies responded to within 180 minutes / total number of emergencies
Qualifying debt	has the meaning given in paragraph (a) of the defined term in clause 1.1.4(2) of the IM determination
Quantity of gas delivered (TJ)	means offtake volume. Expressed in TJ.
Rates	means a cost specified in clause 3.1.2(2)(a) of the IM determination
Rationale for change	means the rationale for changing the allocator or line items, including whether the change occurred because of change in circumstance or another reason
Reason for non-standard depreciation	means- (a) in relation to assets or groups of assets where depreciation is included in depreciation - no standard life asset, 'no standard life'; (b) in relation to assets or groups of assets where depreciation is included in depreciation - modified life assets, 'modified life'; (c) in relation to assets or groups of assets where depreciation is included in depreciation - alternative depreciation determined in accordance with CPP, 'CPP amendment'
Regulated supplier	has the meaning given in the IM determination
Regulatory net taxable income	has the meaning given in clause 2.3.1(2) of the IM determination
Regulatory period	has the meaning given in the IM determination
Regulatory profit / (loss)	means the regulatory profit / (loss) before tax less the regulatory tax allowance

Regulatory profit / (loss) before tax	means the value of q calculated using the following formula: $q = a - b + c$ where: a = operating surplus / (deficit) b = total depreciation c = total revaluations
Regulatory tax allowance	has the meaning given in clause 2.3.1 of the IM determination
Regulatory tax asset value	has the meaning given in the IM determination
Regulatory tax asset value of asset disposals	means the sum of regulatory tax asset values for assets that have a value in asset disposals
Regulatory tax asset value of assets commissioned	means the sum of regulatory tax asset values for assets that have a value in assets commissioned
Regulatory taxable income	has the meaning given in the IM determination
Reliability, Safety and Environment	in relation to expenditure, means the sum of quality of supply, legislative and regulatory, and other reliability, safety and environment.
Research and development	in relation to expenditure, means expenditure on assets or operational expenditure where the primary driver for the expenditure relates to increasing the efficient provision of gas pipeline services through- <ul style="list-style-type: none"> • implementing an original and planned investigation undertaken with the prospect of gaining new scientific or technical knowledge or understanding; or • applying research findings or other knowledge to a plan or design for the production of new or substantially improved materials, devices, products, processes, systems or services before the start of commercial production or use
Response time to emergencies (RTE)	means the time elapsed from when an emergency is reported to a GTB representative until the GTB's personnel arrives at the location of the emergency
Revaluation rate	has the meaning given in the IM determination
ROI	means return on investment
ROI – comparable to a post tax WACC	means the ROI comparable to the vanilla WACC less the product of the cost of debt assumption(%), the leverage and the corporate tax rate

<p>ROI – comparable to a vanilla WACC</p>	<p>means-</p> $q = XIRR(values, dates)$ <p>where: <i>XIRR(values, dates) is the excel function that returns an internal rate of return for a schedule of cash flows</i></p> <p>where the schedule of cash flows and timing are-</p> <table border="0"> <thead> <tr> <th style="text-align: left;"><u>Values</u></th> <th style="text-align: left;"><u>Date</u></th> </tr> </thead> <tbody> <tr> <td>- Opening RIV</td> <td>365 days before year-end</td> </tr> <tr> <td>- Mid-year net cash outflows</td> <td>182 days before year-end</td> </tr> <tr> <td>Line charge revenue</td> <td>148 days before year-end</td> </tr> <tr> <td>- Term credit spread differential allowance</td> <td>Year-end</td> </tr> <tr> <td>Closing RIV</td> <td>Year-end</td> </tr> </tbody> </table>	<u>Values</u>	<u>Date</u>	- Opening RIV	365 days before year-end	- Mid-year net cash outflows	182 days before year-end	Line charge revenue	148 days before year-end	- Term credit spread differential allowance	Year-end	Closing RIV	Year-end
<u>Values</u>	<u>Date</u>												
- Opening RIV	365 days before year-end												
- Mid-year net cash outflows	182 days before year-end												
Line charge revenue	148 days before year-end												
- Term credit spread differential allowance	Year-end												
Closing RIV	Year-end												
<p>ROI – comparable to a vanilla WACC (excluding financial incentives)</p>	<p>means:</p> $q = XIRR(values, dates)$ <p>where: <i>XIRR(values, dates) is the excel function that returns an internal rate of return for a schedule of cash flows</i></p> <p>where the schedule of cash flows and timing are-</p> <table border="0"> <thead> <tr> <th style="text-align: left;"><u>Values</u></th> <th style="text-align: left;"><u>Date</u></th> </tr> </thead> <tbody> <tr> <td>- Opening RIV</td> <td>365 days before year-end</td> </tr> <tr> <td>- Mid-year net cash outflows plus financial incentives multiplied by the corporate tax rate</td> <td>182 days before year-end</td> </tr> <tr> <td>Line Charge revenue less financial incentives</td> <td>148 days before year-end</td> </tr> <tr> <td>- Term credit spread differential allowance</td> <td>Year-end</td> </tr> <tr> <td>Closing RIV</td> <td>Year-end</td> </tr> </tbody> </table>	<u>Values</u>	<u>Date</u>	- Opening RIV	365 days before year-end	- Mid-year net cash outflows plus financial incentives multiplied by the corporate tax rate	182 days before year-end	Line Charge revenue less financial incentives	148 days before year-end	- Term credit spread differential allowance	Year-end	Closing RIV	Year-end
<u>Values</u>	<u>Date</u>												
- Opening RIV	365 days before year-end												
- Mid-year net cash outflows plus financial incentives multiplied by the corporate tax rate	182 days before year-end												
Line Charge revenue less financial incentives	148 days before year-end												
- Term credit spread differential allowance	Year-end												
Closing RIV	Year-end												
<p>SCADA and communications</p>	<p>means a Supervisory Control and Data Acquisition system and its associated communications system that is used to monitor and control the operation of a network</p>												
<p>Self-insurance allowance</p>	<p>means any self-insurance allowance allowed by the Commission through a CPP</p>												

Service interruptions, incidents and emergencies	<p>in relation to expenditure, means operational expenditure where the primary driver is an unplanned instantaneous event or incident that impairs the normal operation of network assets. This relates to reactive work (either temporary or permanent) undertaken in the immediate or short term in response to an unplanned event. This category also includes the direct cost of providing a service to respond to reported gas escapes, loss of supply and low pressure reports to make safe, including a repair allowance, the cost of rechecks, restoring supply, provision for 24/7 response and any waiting/non-productive time for response teams. Includes back-up assistance required to restore supply, repair leaks or make safe. It also includes operational support used during the outage or emergency response. It also includes any necessary response to events arising upstream. It does not include expenditure on activities performed proactively to mitigate the impact such an event would have should it occur.</p> <p>Planned follow-up activities resulting from an event which were unable to be permanently repaired in the short term are to be included under routine and corrective maintenance and inspection</p>
Shipper	means a person who is a party to a contract with a transmission system owner to have gas transported through all or part of the transmission system
Special crossings	means a section of pipe and associated assets (i.e., support structures, vents, casings etc), where the associated assets are installed for the purpose of crossing a road, railway or river etc.
System length (km) (at year end)	means the total length of pipeline (in kilometres) that form the transmission system as at the end of the current disclosure year
System operations	<p>in relation to expenditure, means operational expenditure relating to office based system operations, including</p> <ul style="list-style-type: none"> • control centre costs • for gas transmission, critical system operator activities (including OATIS) • outage planning and notification • planning and co-ordinating network switching including fault switching • production facility liaison
Tax depreciation	has the meaning given in clause 2.3.5(3) of the IM determination
Tax effect	has the meaning given in the IM determination
Tax effect of other temporary differences	means the tax effect of positive temporary differences less negative temporary differences. Positive temporary differences and negative temporary differences have the meanings set out in clause 2.3.5(4) and (5) of the IM determination
Term credit spread difference	has the meaning given in the IM determination
Term credit spread differential allowance	has the meaning given in the IM determination
Total attributable to regulated service	means the sum of directly attributable costs or assets and not directly attributable costs or assets that are attributable to gas transmission services

Total book value of interest bearing debt	means the sum of book value of qualifying debt and non-qualifying debt at the date of the latest general purpose financial statements
Total closing RAB value	means- (a) in relation to the unallocated RAB, the sum of unallocated closing RAB values as determined in accordance with the IM determination; (b) in relation to the RAB, the sum of closing RAB values as determined in accordance with the IM determination
Total depreciation	means- (a) in relation to the unallocated RAB, the sum of unallocated depreciation as determined in accordance with the IM determination; (b) in relation to the RAB or regulatory profit, the sum of depreciation as determined in accordance with the IM determination
Total gas conveyed (TJ)	means the sum of quantity of gas delivered (TJ), gas used in compressor stations (TJ) and gas used in heating systems (TJ). Expressed in TJ.
Total opening RAB value subject to revaluation	means- (a) in relation to the unallocated RAB, total opening RAB values - unallocated RAB less opening value of fully depreciated, disposed and lost assets - unallocated RAB; (b) in relation to the RAB, total opening RAB values - RAB less opening value of fully depreciated, disposed and lost assets – RAB
Total revaluations	means- (a) in relation to the unallocated RAB, the sum of unallocated revaluation as determined in accordance with the IM determination; (b) in relation to the RAB or regulatory profit, the sum of revaluations as determined in accordance with the IM determination
Unaccounted for gas (TJ)	means gas entering the network (TJ) less change in Line Pack (TJ) less total gas conveyed (TJ). Expressed in TJ.
Utilised tax losses	has the meaning given in paragraph (a) of the defined term in the IM determination
Value of transaction	means the value of the related party transaction as determined in accordance with clauses 2.3.7 and 2.3.8 of this determination
Weighted average expected total asset life	means the weighted average expected total asset life of assets calculated by using the opening RAB values as weights where opening RAB value has the meaning given in the IM determination
Weighted average pipe diameter (mm)	means the weighted average pipe diameter, expressed in millimetres, based on the length of pipeline that form the network
Weighted average remaining asset life	means the weighted average remaining asset life of assets calculated by using the opening RAB values as weights where remaining asset life and opening RAB value has the meaning given in the IM determination
Year-end ROI – comparable to a post tax WACC	means the year-end ROI – comparable to the vanilla WACC less the product of the cost of debt assumption(%), the leverage and the corporate tax rate

Year-end ROI – comparable to a vanilla WACC	<p>means:</p> $q = \frac{a}{b + (c \times .05)}$ <p>where:</p> <p>a = Regulatory profit / (loss) b = Opening RIV c = Assets commissioned</p>
---	---

Schedule 17 Certification for Year-beginning Disclosures

Clause 2.9.1

We, [insert full names], being directors of [name of GTB] certify that, having made all reasonable enquiry, to the best of our knowledge-

- a) the following attached information of [name of GTB] prepared for the purposes of clause 2.6.1, subclause 2.6.3(3), clauses 2.6.5 and 2.7.2 *[and subclause 2.13.1(1)(b)] of the Gas Transmission Information Disclosure Determination 2015 in all material respects complies with that determination;
- b) The prospective financial or non-financial information included in the attached information has been measured on a basis consistent with regulatory requirements or recognised industry standards; and
- c) The forecasts in Schedules 11a, 11b, 12a and 12b are based on objective and reasonable assumptions which both align with [name of GTB]'s corporate vision and strategy and are documented in retained records.

*Delete if inapplicable

[Signatures of 2 directors]

[Date]

Schedule 18 Certification for Disclosures at the Beginning of a Pricing Year

Clause 2.9.2

We, [insert full names], being directors of [name of GTB] certify that, having made all reasonable enquiry, to the best of our knowledge-

- a) the following attached information of [name of GTB] prepared for the purposes of clause 2.4.1 of the Gas Transmission Information Disclosure Determination 2015 in all material respects complies with that determination; and
- b) the prospective financial or non-financial information included in the attached information has been forecast on a basis consistent with regulatory requirements or recognised industry standards.

[Signatures of 2 directors]

[Date]

Schedule 19 Certification for Year-end Disclosures

Clause 2.9.3

We, [insert full names], being directors of [name of GTB] certify that, having made all reasonable enquiry, to the best of our knowledge-

- a) the information, prepared for the purposes of clauses 2.3.1, 2.3.2, 2.4.20, 2.5.1, 2.7.1 and 2.12.2 of the Gas Transmission Information Disclosure Determination 2015 in all material respects complies with that determination; and
- b) the historical information used in the preparation of Schedules 8, 9a, 9b, 9c, 9d, 10a, 10b and 14 has been properly extracted from the [name of GTB]'s accounting and other records sourced from its financial and non-financial systems, and that sufficient appropriate records have been retained [and if not, what records and systems were used].

*[In respect of related party costs and revenues recorded in accordance with subclauses 2.3.7(1) (when valued in accordance with clause 2.2.11(5)(h)(ii) of the Gas Transmission Services Input Methodologies Determination 2010), 2.3.7(2)(f) and 2.3.8(2)(b), we certify that, having made all reasonable enquiry, including enquiries of our related parties, we are satisfied that to the best of our knowledge and belief the costs and revenues recorded for related party transactions reasonably reflect the price or prices that would have been paid or received had these transactions been at arm's-length.]

* [in respect of the application of OVABAA in the allocation of costs or assets in accordance with clause 2.1.5 of the IM determination, we certify that, having made all reasonable enquiry, including enquiries of our related policies, we are satisfied that to the best of our knowledge and belief, the unregulated service would be unduly deterred if the OVABAA allocation was less than that disclosed.]

* Delete if inapplicable

[Signatures of 2 directors]

[Date]



[Draft] Gas Transmission Information Disclosure Determination 2015

Consolidating all amendments as of [XX XXXX] 2015

Gas Transmission Information Disclosure Determination under Part 4 of the Commerce Act 1986. The reasons supporting the determination are outlined in the Information Disclosure for Electricity Distribution Businesses and Gas Pipeline Businesses: Final Reasons Paper, 1 October 2012 and the [Information Disclosure Amendments for Electricity Distribution Businesses and Gas Pipelines Businesses: Final Reasons Paper], [XX XXXX] 2015.

The Commerce Commission:

- Dr M Berry**
- S Begg**
- P Duignan**
- S Gale**

|
[XX XXXX] 2015

Amendments identified

Proposed amendments to the determination are identified as track changes except for:

- changes to the Excel based schedules which are identified with an orange highlight; and
- changes to the first three pages which does not identify proposed changes.

Date of Original Determination, Decision No. NZCC 24: 1 October 2012

Consolidating all amendments as of [XX XXXX] 2015

Determination version history		
Determination date	Decision number	Determination name
1 October 2012	NZCC 24	Gas Transmission Information Disclosure Determination ('principal determination').
[XX XXXX] 2015	[XXXX]	Gas Transmission Information Disclosure Determination Amendments (No. 1) 2015

GAS TRANSMISSION INFORMATION DISCLOSURE DETERMINATION 2015

PART 1	GENERAL PROVISIONS	6
1.1	TITLE	6
1.2	COMMENCEMENT DATE	6
1.3	APPLICATION	6
1.4	INTERPRETATION	6
PART 2	DISCLOSURE REQUIREMENTS	31
2.1	INFORMATION DISCLOSURE	31
2.2	APPLICABLE INPUT METHODOLOGIES	31
2.3	FINANCIAL INFORMATION FOR THE DISCLOSURE YEAR	32
2.4	PRICING AND RELATED INFORMATION	38
2.5	NON-FINANCIAL INFORMATION RELATING TO NETWORK ASSETS	45
2.6	ASSET MANAGEMENT PLANS AND FORECAST INFORMATION	48
2.7	EXPLANATORY NOTES TO INFORMATION RELATING TO THE DISCLOSURE YEAR	51
2.8	ASSURANCE REPORTS	53
2.9	CERTIFICATES	54
2.10	RETENTION AND CONTINUING DISCLOSURES	56
2.11	EXEMPTIONS	56
2.12	DISCLOSURE OF ERRORS IN PREVIOUSLY DISCLOSED INFORMATION	56
2.13	TRANSITIONAL PROVISIONS	58
ATTACHMENT A	ASSET MANAGEMENT PLANS	65
SCHEDULE 1	ANALYTICAL RATIOS	79

SCHEDULE 2	REPORT ON RETURN ON INVESTMENT	80
SCHEDULE 3	REPORT ON REGULATORY PROFIT	82
SCHEDULE 4	REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)	84
SCHEDULE 5A	REPORT ON REGULATORY TAX ALLOWANCE	87
SCHEDULE 5B	REPORT ON RELATED PARTY TRANSACTIONS	88
SCHEDULE 5C	REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE	89
SCHEDULE 5D	REPORT ON COST ALLOCATIONS	90
SCHEDULE 5E	REPORT ON ASSET ALLOCATIONS	92
SCHEDULE 5F	REPORT SUPPORTING COST ALLOCATIONS	94
SCHEDULE 5G	REPORT SUPPORTING ASSET ALLOCATIONS	95
SCHEDULE 6A	REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR	99
SCHEDULE 6B	REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR	102
SCHEDULE 7	COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE	103
SCHEDULE 8	REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES	104
SCHEDULE 9A	ASSET REGISTER	105
SCHEDULE 9B	ASSET AGE PROFILE	106
SCHEDULE 9C	REPORT ON PIPELINE DATA	107
SCHEDULE 9D	REPORT ON DEMAND	108
SCHEDULE 10A	REPORT ON NETWORK RELIABILITY AND INTERRUPTIONS	109
SCHEDULE 10B	REPORT ON NETWORK INTEGRITY	110
SCHEDULE 11A	REPORT ON FORECAST CAPITAL EXPENDITURE	111
SCHEDULE 11B	REPORT ON FORECAST OPERATIONAL EXPENDITURE	114
SCHEDULE 12A	REPORT ON ASSET CONDITION	115
SCHEDULE 12B	REPORT ON FORECAST DEMAND	116

SCHEDULE 13	REPORT ON ASSET MANAGEMENT MATURITY	117
SCHEDULE 14	MANDATORY EXPLANATORY NOTES	136
SCHEDULE 14A	MANDATORY EXPLANATORY NOTES ON FORECAST INFORMATION	143
SCHEDULE 15	VOLUNTARY EXPLANATORY NOTES	146
SCHEDULE 16	DEFINITIONS OF TERMS USED IN SCHEDULES 1 TO 15	147
SCHEDULE 17	CERTIFICATION FOR YEAR-BEGINNING DISCLOSURES	172
SCHEDULE 18	CERTIFICATION FOR DISCLOSURES AT THE BEGINNING OF A PRICING YEAR	173
SCHEDULE 19	CERTIFICATION FOR YEAR-END DISCLOSURES	174

Pursuant to Part 4 of the Commerce Act 1986, the Commerce Commission makes the following determination:

PART 1 GENERAL PROVISIONS

1.1 TITLE

1.1.1 This ~~determination is the~~ Gas Transmission Information Disclosure Determination consolidates all amendments to [XX XXXX] 2012~~5~~.

1.2 COMMENCEMENT DATE

1.2.1 This determination comes into force on ~~1 October~~ [XX XXXX] 2012~~5~~.

1.3 APPLICATION

1.3.1 This determination applies to **gas transmission businesses** as suppliers of regulated goods and services under Part 4 of the **Act**.

1.4 INTERPRETATION

1.4.1 In this determination, unless the context otherwise requires-

- (1) Terms in bold type in the main body of this determination (~~this include~~ings the attachment) have the meaning given to those terms in this section 1.4. Terms used in the schedules are defined in Schedule 16;
- (2) Terms used in this determination that are defined in the **Act** but not in this determination, have the same meanings as in the **Act**;
- (3) Terms used in this determination that are defined in the **IM determination** but not in this determination have the same meanings as in the **IM determination**;
- (4) A word which denotes the singular also denotes the plural and vice versa;
- (5) An obligation to do something is deemed to include an obligation to cause that thing to be done;
- (6) Financial items must be measured and disclosed in accordance with **GAAP** or the IM determination unless otherwise required in this determination;
- (7) Non-financial items must be measured and disclosed in accordance with standard industry practice unless otherwise required in this determination.

- 1.4.2 If there is any inconsistency between the main body of this determination (including the attachments) and any schedule to this determination, the main body of this determination prevails.
- 1.4.3 In this determination, the words or phrases in bold type bear the following meanings:

A

Act	means the Commerce Act 1986
Allocated works under construction	means, for the components of the works under construction roll-forward, the works under construction values after the application of clause 2.1.1 of the IM determination
Allocation methodology type	has the meaning givenset-out in the IM determination
Allocator	means the measure used to allocate operating costs or regulated service asset values that are not directly attributable as givenset-out in clause 2.1.3 or clause 2.1.5 of the IM determination
AMP	means asset management plan
AMP planning period	has the meaning specified in subclause 3.4 of Attachment A to this determination
AMP update	has the meaning specified in clause 2.6.4 of section 2.6 of this determination
<u>Asset Disposals</u>	<u>means-</u> <u>(a) in relation to the unallocated RAB, the sum of unallocated opening RAB values less regulatory depreciation of disposed assets, as determined in accordance with input methodologies applicable to that asset in the IM determination;</u> <u>(b) in relation to the RAB, the value (as determined in accordance with paragraph (a)) which was allocated to gas transmission services in accordance with clause 2.1.1 of the IM determination</u>
<u>Asset disposals to a regulated</u>	<u>means asset disposals disposed of to a</u>

Formatted: Font: Not Bold

Formatted: Font: Not Bold

supplier

regulated supplier

Asset disposals to a related party

means asset disposals disposed of to a related party

Asset management plan

has the meaning specified in clause 2.6.1 of ~~section 2.6~~ of this determination

Asset relocations

in relation to expenditure, means **expenditure on assets** where the **primary driver** is the need to relocate assets due to third party requests, such as for the purpose of allowing road widening or similar needs. This expenditure category includes **expenditure on assets** relating to the undergrounding of previously aboveground assets at the request of a third party

Asset replacement and renewal

means-

(a) in relation to **capital expenditure, expenditure on assets**

Formatted: Font: Bold

(b) In relation to **operational expenditure, operational expenditure**

Formatted: Font: Bold

where the **primary driver** is the need to maintain **network** asset integrity so as to maintain current security and/or quality of supply standards and includes expenditure to replace or renew assets incurred as a result of-

Formatted: Font: Bold

- the progressive physical deterioration of the condition of **network** assets or their immediate surrounds;
- the obsolescence of **network** assets;
- preventative replacement programmes, consistent with asset life-cycle management policies; or
- the need to ensure the ongoing physical security of the **network** assets

Assets commissioned

means-

(a) in relation to the **unallocated RAB** or unallocated works under construction, the sum of value of **commissioned** assets as determined in accordance with clause

- 2.2.11 of the **IM determination**;
- (b) in relation to the **RAB or allocated works under construction**, the value of the assets (as determined in accordance with paragraph (a)) which is allocated to the **gas transmission services** in accordance with clause 2.1.1 of the **IM determination**;
- (c) in relation to forecast information, a forecast of the value of the assets (as determined in accordance with paragraph (b)) for a future **disclosure year**

Atypical

means 'one-off' or 'exceptional' costs

Audited disclosure information

means information disclosed under any of clauses 2.3.1, 2.3.2, ~~and 2.12.2 2.12.1 and 2.12.5~~ of this determination and the explanatory notes disclosed in boxes 1 to 12 ~~and 17~~ of Schedule 14 under clause 2.7

B

C

Capital contributions

has the meaning ~~set out given~~ in the **IM determination**

Capital expenditure

means-

- (a) in relation to the **unallocated works under construction**, costs-
 - (i) incurred in the acquisition or development of an asset during the **disclosure year** that is, or is intended to be, **commissioned**; and
 - (ii) that are included or are intended to be included in the value of **assets commissioned** relating to the **unallocated RAB**;
- (b) in relation to the ~~R~~Report on **related party transactions**, costs-
 - (i) incurred in the acquisition or

development of an asset during the **disclosure year** that is, or is intended to be, **commissioned**; and

(ii) that are included or are intended to be included in the value of **assets commissioned** relating to the **RAB**; and

(iii) that are as a result of **related party transactions**;

(c) in all other instances, costs-

(i) incurred or forecast to be incurred in the acquisition or development of an asset during the **disclosure year** that is, or is intended to be, **commissioned**; and

(ii) that are included or are intended to be included in the value of **assets commissioned** relating to the **RAB**

Formatted: Font: Bold

Commencement date	means the date specified in clause 1.2.1 of this determination
Commission	means the Commerce Commission
Commissioned	has the meaning given set out in the IM determination
Compressors	means includes the prime mover (engine or turbine), the compressor, the control system and the ancillaries
Connection point	means a welded connection
Constant prices	means, in relation to the prospective disclosures made under sub clauses 2.6.1, 2.6.3, and 2.6.5-2.6.5(1) , prices expressed in New Zealand dollars as at the mid-point of the current year . Constant price expenditure forecasts are forecasts based on constant price assumptions
Consumer	means a person that consumes or acquires gas

Formatted: Font: Bold

transmission services

Consumer connection

in relation to expenditure, means **expenditure on assets** where the **primary driver** is the establishment of a new customer **connection point** or alterations to an existing customer **connection point**. This expenditure category includes **expenditure on assets** relating to-

- connection assets and/or parts of the **network** for which the expenditure is recoverable in total, or in part, by a contribution from the customer requesting the new or altered **connection point**; and

(a)

- (b) both gas **intake points** and **offtake points** of connection

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Numbered + Level: 1 + Numbering Style: a, b, c, ... + Start at: 1 + Alignment: Left + Aligned at: 0 cm + Indent at: 0.63 cm

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Font: Bold

Constant prices

means, in relation to the prospective disclosures made under subclauses 2.6.1, 2.6.3, and 2.6.5(1), prices expressed in New Zealand dollars as at the mid-point of the **current year**. Constant price expenditure forecasts are forecasts based on constant price assumptions

Contract

means a contract for the supply of goods or services (or both) whether or not the contract, or any part of the contract, is in writing and, for the avoidance of doubt, includes-

- (a) a contract under which goods or services (or both) are being supplied, although some or all of the terms and conditions in relation to the supply of those goods or services have not been settled; and
- (b) any operating agreement, side letter, or documentation that influences, adjusts or amends the terms and conditions of the contract

Contracting services

means the following services, when provided under a **contract** between the **GTB** and a **related party**-

(a) construction and maintenance

(b) **network** management

Formatted: Font: Bold

connection and disconnection services

Cost of financing

means the cost of financing incurred by a **GTB** and accumulated during the construction phase of a project that creates a new **network** asset, determined in accordance with clause 2.2.11(2) of the **IM determination** and allocated to the **gas transmission services** in accordance with clause 2.1.1 of the **IM determination**

CPP

has the meaning givenset out in the **IM determination**

Current year or CY

means-

(a) in relation to the historic disclosures made under subclause 2.3.1, the **disclosure year** of the report

(b) in relation to the prospective disclosures made under subclauses 2.6.1, 2.6.3, and 2.6.52-6.5(4), the **disclosure year** in which the report is prepared

CY, CY-X or CY+X

means

(a) the **current year**_i or

(b) where a '-' precedes 'X', the Xth year preceding the **current year**_i or

(c) where a '+' precedes the 'X', the Xth year following the **current year**

D

Direct billing

~~in relation to expenditure, means **operational expenditure** associated with directly billing end consumers and recovering payments due. This includes billing services, credit and debtor management, associated customer call centres, and customer account management~~

Directly attributable

has the meaning givenset out in the **IM determination**

Director	has the meaning given set out in the IM determination
Directly attributable	has the meaning set out in the IM determination
Disclosure year	means (a) for Vector , the 12 month period ending on 30 June of the year the disclosure relates to, or if the term disclosure year is combined with a year, the 12 month period ended on 30 June of that year (<i>for Vector, disclosure year 2013 is the 12 months ended 30 June 2013</i>); <u>(a)</u> (b) for MDL , the 12 month period ending on 31 December of the year to the disclosure relates to (<i>for MDL, disclosure year 2013 is the 12 months ended 31 December 2012</i>)
DPP regulatory period	<u>means the regulatory period that generally applies to suppliers that are subject to DPP regulation</u> has the meaning set out in the IM Determination
EDB	<u>has the meaning given in the input methodology relating to electricity distribution services determined pursuant to Subpart 3 of Part 4 of the Act, as in effect at any given time</u>
Error	<u>means-</u> <u>(a) the base data was incorrect;</u> <u>(b) a factual statement was incorrect; or</u> <u>(c) the compilation of disclosed information was inconsistent with the information disclosure requirements in place at the time of disclosure; and</u> <u>is not where-</u>

Formatted: Font: Not Italic

Expenditure on assets

[\(d\) the correction is to the initial RAB;](#)
[\(e\) an estimate has changed due to new information becoming available;](#)
[\(f\) the change is a **lost and found assets adjustment**;](#)

[means](#) the expenditure relating to costs included or expected to be included in a closing **RAB** value and is equal to **capital expenditure** plus **value of capital contributions** less **value of vested assets** less **cost of financing**, where **capital expenditure** has meaning (b) or, in respect of **related party transactions**, meaning (c) as set out in this determination

Formatted: Font: Bold

Formatted: Font: Bold

Fault

[means a physical condition that causes a device, component or **network** element to fail to perform in the required manner](#)

G

GAAP

means generally accepted accounting practice in New Zealand, as defined in the **IM determination**

Gains / (losses) on asset disposals

means, in [relation to respect of](#)-

(a) **asset disposals to a related party**, nil;

(b) **asset disposals to a regulated supplier**, nil;

(c) asset disposals (other), the values determined in accordance with **GAAP** and clause 2.1.1 of the **IM determination**

Formatted: Font: Bold

Formatted: Font: Bold

Gas pipeline services

has the meaning [given set out](#) in s 55 of the **Act**

Gas transmission services

has the meaning [given set out](#) in the **IM determination**

GDB

has the meaning [given set out](#) in the [input methodology relating to Gas Distribution Services determined pursuant to Subpart 3 of Part 4 of the Act, as in effect at any given](#)

GPB

~~time~~Input Methodologies Determination 2010 (Commerce Commission Decision 712, 22 December 2010)

means gas pipeline business and includes **GDBs** and **GTBs**

Formatted: Font: 12 pt, Bold

Formatted: Font: 12 pt, Bold

Formatted: Font: Not Bold

GTB

has the meaning given set out in the **IM determination**

H

I

Initial RAB

has the meaning set out in the **IM determination**

Formatted: Font: Bold

IM determination

~~refers to~~means the input methodology relating to ~~G~~gas ~~T~~ransmission ~~S~~ervices ~~determined pursuant to Subpart 3 of Part 4 of the Act, as in effect at any given time~~Input Methodologies Determination 2010 (Commerce Commission Decision 712, 22 December 2010)

Independent auditor

means a **person** who-

Formatted: Font: Bold

- (a) is qualified for appointment as auditor of a company under the Companies Act 1993 or, where the **GPB** is a public entity (as defined in s 4 of the Public Audit Act 2001), is the Auditor-General;
- (b) has no relationship with, or interest in, the **GPB** that is likely to involve a conflict of interest;
- (c) has not assisted with the compilation of the information or provided advice or opinions (other than in relation to audit reports) on the methodologies or processes used in compiling the information; and
- (d) is not associated with nor directed by any **person** who has provided any such assistance, advice, or opinion

Formatted: Font: Bold

Initial RAB

has the meaning set out in the **IM determination**

Intake point

means a point where gas is intended to enter the **network**

Formatted: Font: Bold

Interruption

means the cessation of supply of gas for a period of 1 minute or longer, other than by reason of disconnection in accordance with the terms of the **contract** under which the gas is supplied

L

Legislative and regulatory

in relation to expenditure, means **expenditure on assets** where the **primary driver** is a new regulatory or legal requirement that results in the creation of, or modification to, **network assets**.

Line charge revenue

means revenue from **prices**

Lost and found assets adjustment

means-

- (a) in relation to the **unallocated RAB**, the value of found assets as determined in accordance with clause 2.2.12 of the **IM determination**, less the value of lost assets. The value of a lost asset is the unallocated opening **RAB** value of the asset less regulatory depreciation as determined in accordance with the **IM determination**;
- (b) in relation to the **RAB**, the value of the asset (as determined in accordance with paragraph (a)) which is allocated to **gas transmission services** in accordance with clause 2.1.1 of the **IM determination**
- (c) in relation to the regulatory tax asset base roll-forward, means the sum of regulatory tax asset values for found assets less the regulatory tax asset values of lost assets. The definition of ‘found assets’ and ‘lost assets’ are outlined in the **IM**

determination

M

Main-line valve

means any valves and ancillary devices in a dedicated **station**, installed for purpose of stopping the flow of gas in a pipeline or lateral. This does not include instrumentation valves or valves installed in any other **station** type

Formatted: Font: 12 pt, Bold

Formatted: Font: 12 pt, Bold

~~means any valves and ancillary devices in a dedicated station, installed for purpose of stopping the flow of gas in a pipeline or lateral. This does not include instrumentation valves or valves installed in any other station type~~

Mark-up

means the percentage margin charged on the directly attributable cost incurred by the **related party** in providing a good or service which is included in the price of the good or service

MDL

means Maui Development Limited

N

Net value of vested assets

means the fair value of assets whose ownership is vested in a **GTB** (whether or not for some consideration) less any consideration paid for those assets and allocated to the **gas transmission services** in accordance with clause 2.1.1 of the **IM determination**

Network

has the meaning given set out in the **IM determination**

Nominal New Zealand dollars

in relation to an expenditure or revenue forecast, means the New Zealand dollar prices expected to apply in the year at the time of the transaction

Non-network capex

in relation to expenditure, means **expenditure on assets** related to the provision of **gas pipeline services** but that is not directly related

~~to any **network** asset, and includes expenditure on or in relation to-~~

- ~~• information and technology systems;~~
- ~~• asset management systems;~~
- ~~• office buildings, depots and workshops;~~
- ~~• office furniture and equipment;~~
- ~~• motor vehicles;~~
- ~~• tools, plant and machinery; and~~
- ~~• any other items treated as non-system fixed assets under **GAAP**~~

Non-network assets

means assets related to the provision of **gas pipeline services** but that are not a **network** asset, and include-

- ~~(a)~~ information and technology systems;
(a)
- ~~(b)~~ asset management systems;
(b)
- ~~(c)~~ office buildings, depots and workshops;
(c)
- ~~(d)~~ office furniture and equipment;
(d)
- ~~(e)~~ motor vehicles; and
(e)
- ~~(f)~~ tools, plant and machinery; and
- ~~(g)(f)~~ any other items treated as non-system fixed assets under **GAAP**

Non-standard contract

means a **contract** for **gas transmission services** that is not a **standard contract**

Not directly attributable

means-

- (a) in relation to **operating costs, operating costs** that are not **directly attributable**;
- (b) in relation to **regulated service asset values, regulated service asset values** that are not **directly attributable**

Notional net cash flows

means ~~line charge revenue less monthly net cash outflows, in relation to the ROI, operating surplus / (deficit) less regulatory tax allowance less assets commissioned plus asset disposals~~
 alternative ROI, revenue less expenses less tax payments less assets commissioned plus asset disposals

O

Offtake peak

means, in relation to an **offtake point** on a **transmission system**, a period of specified duration during which the throughput of gas at the **offtake point** in the year ended 30 September is at its peak

Formatted: Font: Bold

Formatted: Font: Bold

Offtake point

means a point where gas is intended to exit the **network** owned by a **person** either; to enter a distribution network owned by the same **person**, or for use, conveyance, storage or any other purpose by any other **person**.

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Font: Bold

Operating cost

has the meaning ~~givenset-out~~ in the **IM determination**

Operational expenditure

means **operating costs** after applying clause 2.1.1 of the **IM determination**, except in relation to the ~~Report on related party transactions~~ where it means **operating costs from related party transactions as determined** after applying clause 2.1.1 of the **IM determination** and ~~clause 2.3.7 of this determination that are related party transactions~~

Formatted: Font: Bold

Formatted: Font: Bold

Other regulated income

has the meaning ~~givenset-out~~ in the **IM determination**

Other reliability, safety and environment

in relation to expenditure, means **expenditure on assets** where the **primary driver** is to improve **network** reliability or safety or to mitigate the environmental impacts of the **network**, but is not included in either of the

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Font: Bold

quality of supply or **legislative and regulatory** categories. For example, this category may include **expenditure on assets** where the **primary driver** is to ensure staff safety or meet the **GTB's** environmental policies

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Font: Bold

~~Other system fixed assets (or~~
~~Other network assets)~~

means **network** assets used by the **GTB** to provide **gas transmission services** that are not **pipes, stations, compressors, mainline valves,** or **special crossings**

P

Person

has the same meaning as defined in s 2 of the **Act**

Planned interruption

means any **interruption** in respect of which not less than 10 days notice was given, either to the public or to all **consumers** affected by the **interruption**

Formatted: Font: Bold

Formatted: Font: Bold

Prescribed contract

~~in relation to an **GTB**,~~ means -

- (a) a **contract** under which the **GTB** supplies **gas transmission services**; or
- (b) a **contract** for **related services**, if goods or services are to be supplied under the **contract** by—
 - (i) the **GTB**; or
 - (ii) a **person** that is a **related party** of the **GTB**; or
 - (iii) a **person** that supplies **gas pipeline services** by means of works owned by the **GTB**; or
 - (iv) a **person** that is a **related party** of a **person** of the kind referred to in subclause (iii)

Prescribed terms and conditions

means, in relation to a **contract** for the supply of **gas transmission services** or for **related services**, the terms and conditions of the

contract that—

- (a) describe the goods or services to be supplied under the **contract**;
- (b) determine, or provide **for** the determination of the quantity or amount of those goods or services;
- (c) specify, determine, or provide for the determination of the-
 - (i) **price** at which those goods or services are to be supplied;
 - (ii) timing of payment for those goods or services;
 - (iii) security for payment for those goods or services; **and**
 - (iv) **GTB's** obligations and responsibilities (if any) to **consumers** in the event that the supply of **gas transmission services to consumers** is interrupted.

Pressure regulating station

means a station that automatically regulates the pressure into a downstream piping system

Price component

means the various tariffs, fees and charges that constitute the components of the total **price** paid, or payable, by a **consumer**

Formatted: Font: Bold

Prices

has the meaning **given set out** in the **IM determination**

Pricing principles

means, in relation to the supply of **gas pipeline services**, the principles as defined in clause 2.5.2 of the **IM determination**

Pricing strategy

means a decision made by the **Directors** of the **GTB** on the **GTB's** plans or strategy to amend or develop **prices** in the future, and recorded in writing

Pricing year

means the 12-month period for which **prices** are set using the pricing methodology disclosed

Formatted: Font: Bold

Primary driver

under clause 2.4.1 [of this determination](#)

means the primary reason for a decision to incur a cost in the year the cost was incurred or forecast to be incurred.

For example, an asset may be relocated at the request of a third party and, at the same time, capacity on the asset increased to take account of expected future demand. If it is the third party request that required the asset to be relocated at that time, then the **expenditure on assets** would be allocated to **asset relocation**. If the deadline for relocating the asset was not imminent, but the project had to be completed to allow for the increase in capacity, then the **expenditure on assets** would be allocated to **system growth**.

Where there is more than one driver for a cost, and the cost is a significant proportion of **operational expenditure** or **expenditure on assets**, expenditure may be apportioned between expenditure categories according to the relative importance of each driver to the decision, or the project divided into cost categories

Publicly disclose

~~in relation to any information,~~ means to-

- (a) disclose the information to the public on the Internet at the **GTB's** usual publicly accessible website;
- (b) make copies of the information available for inspection by any **person** during ordinary office hours, at the principal office of the **GTB** making the public disclosure and
- (c) within 10 working days of being requested to do so by any **person**, provide that **person** with a copy of the information, either by post or for collection (during ordinary office hours) from that principal office, whichever the **person** prefers; and

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Font: Bold

- (d) within 5 working days after the information is disclosed to the public, provide a copy of the information to the **Commission** in the form that it is disclosed to the public and in an electronic format that is compatible with Microsoft Excel or Microsoft Word (as the case may be), and **public disclosure** and **publicly disclosing** have corresponding meanings

Quality of supply

Q

in relation to expenditure, means **expenditure on assets** where the **primary driver** is the need to meet improved security and/or quality of supply standards. This may include expenditure to-

- reduce the overall **interruption/fault** rate of the **network**;

(a)

- reduce the average time that **consumers** are affected by **planned interruptions** and/or **unplanned interruptions**; or

(b)

- (c) reduce the average number of **consumers** affected by **planned interruptions** and/or **unplanned interruptions**.

Formatted: Numbered + Level: 1 + Numbering Style: a, b, c, ... + Start at: 1 + Alignment: Left + Aligned at: 0 cm + Indent at: 0.63 cm

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Font: Bold

R

RAB

means regulatory asset base and for the components of the RAB roll-forward, the values after applying clause 2.1.1 of the **IM determination**

Record

has the meaning ~~givenset-out~~ in section 4 of the Public Records Act 2005

Regulated Service

has the meaning given in the **IM determination**

Regulated service asset values

has the meaning ~~givenset-out~~ in the **IM**

determination

Related party

has the meaning ~~given set out~~ in the **IM determination**

Related party transaction

means a transaction with a **related party**

Related services

means goods or services (other than the supply or conveyance of gas or gas appliances) supplied or to be supplied under a **contract** in any case where ~~any **contract** for the supply of goods or services (other than a **contract** for the supply or conveyance of gas or the supply of gas appliances) in any case where~~

- (a) there is a linkage between-
 - (i) that **contract**; and
 - (ii) a **contract** for the supply or conveyance of gas
by reason that the consideration for the supply of those goods or services is linked to, or combined with, payment for the supply or conveyance of that gas; and
- (b) the monetary value of the goods or services supplied, or to be supplied, under the **contract** referred to in (a)(i) ~~above~~, in respect of-
 - (i) the period of 12 months immediately before the information relating to the **contract** for the supply or conveyance of gas referred to in (a)(ii) that is **publicly disclosed** as required by clauses 2.4.9 or 2.4.12 of this determination; or
 - (ii) the period of 12 months immediately after that information is **publicly disclosed**-

amounts to or will amount to more than 1% of the monetary value or projected monetary value of the **contract** referred to in (a)(ii) for the supply or conveyance of gas

Formatted: Font: Not Bold

Revenue

means ~~total regulatory income~~ accrued in each of the months of the ~~disclosure year~~

Routine and corrective maintenance and inspection

in relation to expenditure, means **operational expenditure** where the **primary driver** is the activities specified in planned or programmed inspection, testing and maintenance work schedules and includes-

~~(a)~~ **fault** rectification work that is undertaken at a time or date subsequent to any initial **fault** response and restoration activities

Formatted: Font: Bold

Formatted: Font: Bold

~~(a)~~

~~(b)~~ routine inspection

~~(b)~~

~~(c)~~ functional and intrusive testing of assets, plant and equipment including critical spares and equipment

~~(c)~~

~~(d)~~ helicopter, vehicle and foot patrols, including negotiation of landowner access

~~(d)~~

~~(e)~~ asset surveys

~~(e)~~

~~(f)~~ environmental response

~~(f)~~

~~(g)~~ painting of **network** assets

Formatted: Font: Bold

~~(g)~~

~~(h)~~ outdoor and indoor maintenance of **stations**, including weed and vegetation clearance, lawn mowing and fencing

Formatted: Font: Bold

~~(h)~~

~~(i)~~ maintenance of access tracks, including associated security structures and weed and vegetation clearance

~~(i)~~

~~(j)~~ customer-driven maintenance

(i)

(k) notices issued

Routine transaction

means a **related party transaction** involving **MDL** and one of its shareholder businesses which is conducted in accordance with the Maui Pipeline Operating Code, does not contain any non-routine terms and conditions and relates to gas transmission shipments, balancing gas transactions, or transactions for the purchasing or selling of gas that was initiated on an exchange/trading platform for anonymous trading

S

Shared asset

means a **network** asset used by more than one **consumer** in order to receive **gas transmission services**

Formatted: Font: Bold

Sole use assets

means assets connected to the **network** for use by only 1 connecting **consumer** in order to receive **gas transmission services**

Special contract term

means -

- (a) a non-price term in a **contract** which materially differs from the terms which the parties in their respective positions would usually include in an arm's length **contract**; or
- (b) the omission of a material non-price term from a **contract**, when the parties in their respective positions would usually include that term in an arm's length **contract**; or a non-price term in a **contract** resulting from a tender process, which materially varies from, or was not included in, the contractual basis on which the tender proposals were requested or the terms proposed by the lowest qualifying tender from an unrelated party, which credibly could have performed the services

Special crossings

~~means a section of pipe and associated assets (i.e., support structures, vents, casings etc), where the associated assets are installed for the purpose of crossing a road, railway or river etc.~~

Standard contract

means any **contract** (being a **contract** for the provision of **gas transmission services**) between a **GTB** and any other **person**, where –

- (a) the **price** at which the **gas transmission services** are to be provided under the **contract** is determined solely by reference to a schedule of **prescribed terms and conditions**, being a schedule that is **publicly disclosed**; and
- (b) at least ~~4~~**four** other **persons** have such **contracts** with the **GTB**, and none of those other **persons** is a **related party** of the **GTB**, or is a **related party** ~~with~~ of those other **persons**

Stations

means a facility at which an operation on and/or measurement of the gas occurs by means of device(s) installed at the facility

System growth

in relation to expenditure, means **expenditure on assets** where the **primary driver** is a change in demand or injection on a part of the **network** which results in a requirement for either additional capacity to meet this demand or additional investment to maintain current security and/or quality of supply standards due to the increased demand. This expenditure category includes **expenditure on assets** associated with SCADA and telecommunications assets

System peak

means, in relation to a **transmission system**, a period of specified duration during which the aggregate throughput of gas at all **offtake points** on the **transmission system** in the year ended 30 September is at its peak. The duration of the peak flow measurement period

Formatted: Font: Bold

is specified to be that normally used by the business for its **transmission system** investment and capacity reservation evaluations

Formatted: Font: Bold

T

Target revenue

means the revenue that the **GTB** expects to obtain from **prices**

Total opening RAB values

means-

- (a) in relation to the **unallocated RAB**, the sum of unallocated opening **RAB** values as determined in accordance with the **IM determination**;
- (b) in relation to the **RAB**, the sum of opening **RAB** values as determined in accordance with the **IM determination**

Total regulatory income

means-

- (a) in relation to the Report on Regulatory Profit, the sum of **line charge revenue**, **gains / (losses) on asset disposals** and **other regulated income**
- (b) in relation to the Report on Related Party Transactions, the income from **related party transactions** as determined after applying clauses ~~2.3.6 and~~ 2.3.7 and 2.3.8 of this determination

Transitional AMP

has the meaning given specified in subclause 2.13.1(2)~~2.12.12(2)~~ of this determination

Transmission system

means-

- (a) in the case of **MDL**, the **network** or one of the component parts of the **network** owned by **MDL**;
- (b) in the case of **Vector**, one of the component parts of the **network** owned by **Vector**

U

Unallocated RAB

means for the components of the **RAB** roll-forward, the values before the application of clause 2.1.1 of the **IM determination**

Unallocated works under construction

means for the components of the works under construction roll-forward, the works under construction values before the application of clause 2.1.1 of the **IM determination**

Formatted: Font: Not Bold

Formatted: Font: Not Bold

~~**Unallocated 2009 modified asset values**~~

~~means the value of the **2009 modified asset values** before any allocation of asset value relevant to the regulatory disclosures been undertaken~~

Unplanned interruption

means any **interruption** ~~that is not a **planned interruption** in respect of which less than 10 days notice, or no notice, was given, either to the public or to all consumers affected by the interruption~~

Formatted: Font: Bold

V

Value of capital contributions

means the value of **capital contributions** received by a **GTB** and accumulated during the construction phase of a project that creates a new **network** asset, determined in accordance with clause 2.2.11(1)(h) of the **IM determination** and allocated to the **gas transmission services** in accordance with the allocation of the regulated service asset values set out in clause 2.1.1 of the **IM determination**

Value of vested assets

means the consideration incurred by a **GTB** and accumulated during the construction phase of a project that creates a new **network** asset, determined in accordance with clause 2.2.11(1)(i) of the **IM determination**

Vector

means Vector Limited

W

Works under construction

means-

- (a) in relation to **unallocated works under construction**, the value of q calculated using the following formula:

$$q = a + b - c + d$$

where-

a = **unallocated works under construction** - preceding **disclosure year**;

b = **unallocated RAB capital expenditure**;

c = **unallocated RAB assets commissioned**; and

d = adjustment resulting from **asset cost** allocation;

- (b) in relation to **allocated works under construction**, the value (as determined in accordance with paragraph (a)) which was allocated to **gas transmission services** in accordance with clause 2.1.1 of the **IM determination**;

~~(c) in relation to the establishment of the initial **RAB** value, the value of works under construction included in **unallocated 2009 modified asset values** as works under construction is defined in the **IM determination**~~

Formatted Table

Field Code Changed

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Font: Not Bold

PART 2 DISCLOSURE REQUIREMENTS

2.1 INFORMATION DISCLOSURE

2.1.1 Subject to sections 2.11 and [2.132-12](#), from the **commencement date** every **GTB** must comply with the information disclosure requirements set out in this determination and, in particular, must comply with-

- (1) The requirements to disclose financial ~~and other~~ information in section 2.3;
- (2) The requirement to disclose pricing and related information in section 2.4;
- (3) The requirement to disclose non-financial information relating to network assets in section 2.5;
- (4) The requirement to disclose asset management plans and forecast information in section 2.6;
- (5) The requirement to disclose explanatory notes in relation to disclosed information in section 2.7;
- (6) The audit, certification and verification requirements in sections 2.8 and 2.9;
- (7) The retention and continuous disclosure requirements in section 2.10;
- (8) The transitional provisions in section [2.132-12](#).

2.2 APPLICABLE INPUT METHODOLOGIES

2.2.1 Every **GTB** must apply the requirements set out in the following subparts of the **IM determination** as applicable, when complying with this determination-

- (1) Subpart 1 of part 2, cost allocation;
- (2) Subpart 2 of part 2, asset valuation;
- (3) Subpart 3 of part 2, treatment of taxation;
- (4) Subpart 5 of part 2, pricing methodologies.

2.3 FINANCIAL INFORMATION FOR THE DISCLOSURE YEAR

Annual disclosure relating to financial information for the disclosure year

2.3.1 ~~Subject to section 2.12, Ww~~ Within 6 months after the end of each **disclosure year**, every **GTB** must disclose information relating to its financial position by-

- (1) Completing each of the following reports by inserting all information relating to the **gas transmission services** supplied by the **GTB** for that **disclosure year**-
 - (a) the Analytical Ratios set out in Schedule 1;
 - (b) the Report on Return on Investment set out in Schedule 2;
 - (c) the Report on Regulatory Profit set out in Schedule 3;
 - (d) the Report on Value of the Regulatory Asset Base (Rolled Forward) set out in Schedule 4;
 - (e) the Report on Regulatory Tax Allowance set out in Schedule 5a;
 - (f) the Report on Related Party Transactions set out in Schedule 5b;
 - (g) the Report on Term Credit Spread Differential Allowance set out in Schedule 5c;
 - (h) the Report on Cost Allocations set out in Schedule 5d;
 - (i) the Report on Asset Allocations set out in Schedule 5e;
 - (j) the Report on Capital Expenditure for the Disclosure Year set out in Schedule 6a;
 - (k) the Report on Operational Expenditure for the Disclosure Year set out in Schedule 6b;
 - (l) the Comparison of Forecasts to Actual Expenditure set out in Schedule 7; and
- (2) **Publicly disclosing** each of those reports.

~~2.3.2~~ ~~Subject to section 2.132-12, W~~ within 6 months and 5 working days after the end of each **disclosure year**, every **GTB** must disclose to the **Commission** information supporting the information disclosed in accordance with clause 2.3.1 by ~~—~~

~~(1)~~ ~~2.3.2 c~~ Completing each of the following reports by inserting all information relating to the information supplied by the **GTB** in Schedules 5d and 5e for that **disclosure year**-

Formatted: Heading H4: Clause text

~~(a)~~ (1) the Report Supporting Cost Allocations set out in Schedule 5f;

~~(b)~~ (2) the Report Supporting Asset Allocations set out in Schedule 5g.

Alternative method for return on investment information

2.3.3 ~~Subject to section 2.12, i~~n completing the Report on Return on Investment in Schedule 2-

(1) Each **GTB** must disclose information in accordance with part 2(iii) of Schedule 2 if during the first three months or last three months of the **disclosure year**-

(a) the value of **assets commissioned** by the **GTB** exceeds 10% of the **total opening RAB values**; or

(b) the **notional net cash flows** exceed 40% of the annual **notional net cash flows**;

Formatted: Font: Bold

Formatted: Font: Bold

(2) Otherwise a **GTB** may elect to disclose information in accordance with part 2(iii) of Schedule 2.

Tax rate applicable to MDL

2.3.4 In completing Schedule 5a and Schedule 14, **MDL** must use the statutory tax rate as the value for the corporate tax rate, and is not required to disclose the effect of any tax permanent differences or temporary differences.

Term credit spread differential allowance

2.3.5 The Report on Term Credit Spread Differential Allowance in Schedule 5c is only required to be completed by qualifying suppliers as qualifying suppliers is defined in the **IM determination**.

Allocation of assets and operating costs

2.3.6 In completing the Report on Cost Allocations in Schedule 5d and the Report on Asset Allocations in Schedule 5e every **GTB** must **publicly disclose**, for each **operational expenditure** category in Schedule 5d and each asset category in Schedule 5e that has **not directly attributable** costs ~~or assets~~

- (1) A description of the **not directly attributable** costs or assets;
- (2) The **allocation methodology types** used to allocate the **not directly attributable** costs or assets;
- (3) Where more than one allocation method is used, the percentage of **not directly attributable** costs or assets allocated using each method;
- (4) Where ABAA or OVABAA methodologies are used, whether the **allocators** are proxy asset allocators, proxy cost allocators or causal allocators, as ABAA, OVABAA, proxy assets allocator, proxy cost allocator and causal are defined in the **IM determination**; and
- (5) The **allocators** used and the rationale for using each **allocator**.

Related party transactions

2.3.7 For the purpose of clause 2.3.1, the cost of any service, good, or asset acquired from a **related party** must be-

- (1) For the cost of an **commissioned** asset or a component of a **commissioned** asset acquired from a **related party**, as determined in accordance with clause 2.2.11(1)(e)-(g) of the **IM determination**;
- (2) For any service or good, which does not result from a routine transaction, one of the following-
 - (a) at the directly attributable cost incurred by the **related party** in accordance with the cost allocation process set out in clauses 2.1.1 of the **IM determination**, provided that the cost incurred by the **related party** in providing the service to the **GTB**-
 - (i) is fair and reasonable to the **GTB**; and
 - (ii) is substantially the same as the cost incurred by the **related party** in providing the same type of services to third parties;
or

- (b) for gas **contracting services** to maintain or develop the **network**, at the directly attributable cost incurred by the **related party**, determined in accordance with the cost allocation process set out in clause 2.1.1 of the **IM determination**, plus a **mark-up** which does not exceed 17.2%; or
- (c) the price paid by the **GTB**, where—
 - (i) at least 50% of the **related party's** sales of services and goods are to third parties, and third parties may purchase the same or similar services or goods from the **related party** on substantially the same terms and conditions, including price; or
 - (ii) that price is substantially the same as the price paid for the same or substantially similar services or goods (including any adjustments for inflation using CPI or an appropriate input price index) on substantially the same terms and conditions in the preceding 3 **disclosure years** from a party other than a **related party**; or
- (d) at the price paid by the **GTB**, where—
 - (i) the price paid for all services, goods, and assets acquired from that **related party** is less than 1% of the **GTB's** total revenue from the **regulated service** for that year; and
 - (ii) the total price paid for all **related party transactions** is less than 5% of the **GTB's** total revenue from the **regulated service**; or
- (e) at the price paid by the **GTB** to the **related party** following a competitive tender process, provided that—
 - (i) the price is no more than 5% higher than the price of the lowest conforming tender received;
 - (ii) all relevant information material to consideration of a proposal was provided to third parties, or made available upon request;
 - (iii) at least one other qualifying proposal was received;

- (iv) the final agreement for the provision of the services, goods, or assets by the **related party** does not include any **special contract terms**;
- (v) the **GTB** retains for a period of 7 years following the closing date of tender proposals a **record** of the tender and tender process, including request for information and/or proposal, the criteria used for the assessment of proposals, reasons for acceptance or rejection of proposals, and all proposals and requests for information on the tender for the purposes of making proposals; and
- (f) the price paid by the **GTB**, provided—
 - (i) the price cannot otherwise be determined under subclauses (a) to (e), and
 - (ii) no fewer than 2 **directors** of the **GTB** provide a written certification that they are satisfied that the price or prices paid for all services and, goods, determined in accordance with this paragraph reflect the price or prices that would be paid in an arm's-length transaction; or
- (g) nil.

Formatted: Font: Bold

2.3.8 For the purpose of clause 2.3.1^{above}, the price received for any sale or supply of services, goods, or assets to a **related party**, which does not result from a routine transaction, must be one of the following—

- (1) If the **related party** is another **GTB**, an **EDB**, or **GDB** required to **publicly disclose** the price paid or cost incurred in accordance with another **Commission** determination, then the price received must be that disclosed by the **related party**; or
- (2) If the price received cannot be determined under subclause (1), then—
 - (a) at the price received from the **related party**, where the **GTB** makes at least 50% of its revenue from the provision of similar services to unrelated parties, and the price charged by the **GTB** to the **related party** is substantially the same as the price charged to third parties for similar services, goods, or assets on substantially the same terms and conditions; or

- (b) at the price received from the **related party**, provided that no fewer than 2 directors of the **GTB**'s provide a written certification that they are satisfied that the prices received for all services, goods, or assets provided to **related parties** reflect the price or prices that would be received in an arm's length transaction; or
- (c) at the cost incurred by the **GTB** in providing the service, good, or asset.

Information on capital expenditure projects

2.3.9 [Subject to section 2.12](#), in completing the Report on Capital Expenditure for the Disclosure Year in Schedule 6a, [every GTB](#)s must disclose the following information in relation to [material projects and programmes](#)-

Formatted: Font: Not Bold

- (1) Separately disclose **consumer connection** expenditure for each [consumer](#) type defined by the **GTB** in 6a(iii) of Schedule 6a;
- (2) For each material **asset relocation** project in Schedule 6a-
 - (a) separately disclose a brief description of the project and its value in 6a(v) of Schedule 6a;
 - (b) provide any additional commentary, including the purpose of the project and a description of the assets relocated [for each project](#) in Schedule 14 (Mandatory Explanatory Notes);
- (3) For each material **quality of supply** project in Schedule 6a-
 - (a) separately disclose a brief description of the project and its value in 6a(vi) of Schedule 6a;
 - (b) provide any additional commentary, including the purpose of the project and a description of the assets affected for each project in Schedule 14 (Mandatory Explanatory Notes);
- (4) For each material **legislative and regulatory** project in Schedule 6a-
 - (a) separately disclose a brief description of the **legislative and regulatory** requirement and the value of the project in 6a(vii) of Schedule 6a;
 - (b) provide any additional commentary, including the purpose of the projects and a description of the assets affected for each project in Schedule 14 (Mandatory Explanatory Notes);

Formatted: Font: Not Bold

- (5) For each material **other reliability, safety and environment** project in Schedule 6a-
 - (a) separately disclose a brief description of the project and its value in 6a(viii) of Schedule 6a;
 - (b) provide any additional commentary, including the purpose of the project and a description of the assets affected for each project in Schedule 14 (Mandatory Explanatory Notes);
- (6) For each material **non-network ~~capex~~ assets** project in Schedule 6a-
 - (a) separately disclose a brief description of the project and its value in 6a(ix) of Schedule 6a;
 - (b) provide any additional commentary, including the purpose of the project and a description of the assets affected for each project in Schedule 14 (Mandatory Explanatory Notes).

Formatted: Font: Bold

Information on physical service life potential

- 2.3.10 For all assets or groups of assets where the **GTB** has changed the asset(s)' depreciation profile or the asset(s) was **commissioned** during the **disclosure year**, and the asset(s)' life service potential was determined by an engineer in accordance with clause 2.2.8 of the **IM Ddetermination**, within 6 months after the end of each **disclosure year**, the **GTB** must **publicly disclose** the report written by the engineer which was prepared in accordance with clause 2.2.8(3)(b) of the **IM Ddetermination**.

2.4 PRICING AND RELATED INFORMATION

Disclosure of pricing methodologies

- 2.4.1 Every **GTB** must **publicly disclose**, before the start of each **pricing year**, a pricing methodology which-
- (1) Describes the methodology, in accordance with clause 2.4.3, used to calculate the **prices** payable or to be payable;
 - (2) Describes any changes in **prices** and **target revenues**;
 - (3) Explains, in accordance with clause 2.4.5, the approach taken with respect to pricing in **non-standard contracts**; and

- (4) Explains whether, and if so how, the **GTB** has sought the views of **consumers**, including their expectations in terms of **price** and quality, and reflected those views in calculating the **prices** payable or to be payable. If the **GTB** has not sought the views of **consumers**, the reasons for not doing so must be disclosed.

2.4.2 Any change in the pricing methodology or adoption of a different pricing methodology, must be **publicly disclosed** at least 20 working days before the **prices** determined in accordance with the change or the different pricing methodology take effect.

2.4.3 Every disclosure under clause 2.4.1 ~~of this section~~ must-

- (1) Include sufficient information and commentary for interested **persons** to understand how **prices** were set for **consumers**, including the assumptions and statistics used to determine **prices** for **consumers**;
- (2) Demonstrate the extent to which the pricing methodology is consistent with the **pricing principles** and explain the reasons for any inconsistency between the pricing methodology and the **pricing principles**;
- (3) State the **target revenue** expected to be collected for the current **pricing year** to which the pricing methodology applies;
- (4) Where applicable, identify the **key components of target revenue** required to cover the costs and return on investment associated with the **GTB's** provision of **gas transmission services**. Disclosure must include the numerical value of each of the components;
- (5) If **prices** have changed from **prices** disclosed for the immediately preceding **pricing year**, explain the reasons for changes, and quantify the difference for each of those reasons;
- (6) Where applicable, describe the method used by the **GTB** to allocate the **target revenue** among **consumers**, including the numerical values of the **target revenue** allocated to **consumers**, and the rationale for allocating it in this way;
- (7) State the proportion of **target revenue** (if applicable) that is collected through each **price component** as **publicly disclosed** under clause 2.4.18.

Formatted: Font: Bold

Formatted: Font: Not Bold

Formatted: Font: Not Bold

Formatted: Font: Not Bold

2.4.4 Every disclosure under clause 2.4.1 ~~above~~ must, if the **GTB** has a **pricing strategy**-

- (1) Explain the **pricing strategy** for the next 5 **pricing years** (or as close to 5 years as the **pricing strategy** allows), including the current **pricing year** for which **prices** are set;
- (2) Explain how and why **prices for consumers** are expected to change as a result of the **pricing strategy**;
- (3) If the **pricing strategy** has changed from the preceding **pricing year**, identify the changes and explain the reasons for the changes.

2.4.5 Every disclosure under clause 2.4.1 ~~of this section~~ must-

- (1) Describe the approach to setting **prices for non-standard contracts**, including-
 - (a) the extent of **non-standard contract** use, including the value of **target revenue** expected to be collected from **consumers** subject to **non-standard contracts**;
 - (b) how the **GTB** determines whether to use a **non-standard contract**, including any criteria used;
 - (c) any specific criteria or methodology used for determining **prices for consumers** subject to **non-standard contracts**, and the extent to which these criteria or that methodology are consistent with the **pricing principles**;
- (2) Describe the **GTB's** obligations and responsibilities (if any) to **consumers** subject to **non-standard contracts** in the event that the supply of **gas transmission services** to the **consumer** is interrupted. This description must explain-
 - (a) the extent of the differences in the relevant terms between **standard contracts** and **non-standard contracts**;
 - (b) any implications of this approach for determining **prices for consumers** subject to **non-standard contracts**.

Disclosure of capital contributions

2.4.6 Every **GTB** must at all times **publicly disclose**-

- (1) A description of its current policy or methodology for determining **capital contributions**, including-
 - (a) the circumstances (or how to determine the circumstances) under which the **GTB** may require a **capital contribution**;
 - (b) how the amount payable of any **capital contribution** is determined. Disclosure must include a description of how the costs of any assets (if applicable), including any **shared assets** and any **sole use assets** that are included in the amount of the **capital contribution**, are calculated;
 - (c) the extent to which any policy or methodology applied is consistent with the relevant **pricing principles**;
- (2) A statement of whether a **consumer** or any other **person** can use an independent contractor to undertake some or all of the work covered by the **capital contribution** sought by the **GTB**;
- (3) If the **GTB** has a standard schedule of **capital contributions** charges, the current version of that standard schedule.

2.4.7 When a **consumer** or other **person** from whom a **GTB** seeks a **capital contribution** queries the **capital contribution** charge, (and when the charge is not covered in the schedule of standard **capital contribution** charges, or no such schedule exists) a **GTB** must, within 10 working days of receiving the request, provide reasonable explanation to any reasonable query from that **consumer** or other **person** of the components of that charge and how these were determined.

2.4.8 The requirements in clauses 2.4.6 and 2.4.7 apply if-

- (1) the **GTB** determines the amount of **capital contributions**; or
- (2) the **GTB** has or can obtain information about the policy or methodology used by another **person** to determine **capital contributions** where the **GTB** receives those **capital contributions**.

Disclosure of prescribed terms and conditions of contracts

2.4.9 Every **GTB** must, not later than 20 working days after entering into a **prescribed contract** that is a **standard contract**, **publicly disclose** the **prescribed terms and conditions** of the **prescribed contract**.

2.4.10 Subject to section 53C(4) of the **Act**, if any **prescribed terms and conditions** of a **prescribed contract** which is also a **standard contract** (including a **prescribed contract** that was entered into before 1 October 2012~~the date on which this determination comes into force~~) are modified, the **GTB** must, not later than 20 working days after those modifications take effect, **publicly disclose**-

- (1) The **prescribed contract** concerned;
- (2) The modifications made to the **prescribed terms and conditions**.

2.4.11 For the purposes of this section, **public disclosure** by a **GTB** of the **prescribed terms and conditions** of a **standard contract** is to be regarded as **public disclosure** by that **GTB** in relation to all of its **standard contracts** with the same **prescribed terms and conditions**.

Formatted: Font: Bold

Formatted: Font: Bold

2.4.12 Subject to section 53C(4) of the **Act** every **GTB** must, in respect of all **prescribed contracts** that are **non-standard contracts** entered into during the **disclosure year**, no earlier than 6 months after the end of that **disclosure year**, either **publicly disclose**-

- (1) A description of the goods or services to be supplied under the **contract** and the quantity or amount of those goods or services to be supplied under the **prescribed contract**; or
- (2) The **prescribed terms and conditions** of each **prescribed contract** with the exception of **prescribed terms and conditions** that specify, determine, or provide for the determination of the **price** at which goods or services are to be supplied.

2.4.13 For any **contract** for which information is **publicly disclosed** under clause 2.4.12, unless **prescribed terms and conditions** have been **publicly disclosed** under subclause 2.4.12(2), every **GTB** must, within 20 working days of a request by any **person**, provide to that **person** and **publicly disclose** the **prescribed terms and conditions** of the **prescribed contract**, with the exception of **prescribed terms and conditions** that specify, determine, or provide for the determination of the **price** at which goods or services are to be supplied.

2.4.14 Clauses 2.4.15 and 2.4.16 apply to **prescribed contracts**-

- (1) For which information was disclosed in any previous **disclosure year** under clause 2.4.12 or clause 2.4.13; or
- (2) Which were entered into before 1 October 2012~~the date on which this determination came into force.~~

2.4.15 Subject to section 53C(4) of the **Act**, if any **prescribed terms and conditions** of a **prescribed contract** described under clause 2.4.14 are modified, every **GTB** must **publicly disclose**, no earlier than 6 months after the end of the **disclosure year** in which the **prescribed contract** was ~~modified~~entered into-

- (1) The existence of the **prescribed contract** described in clause 2.4.14 ~~above~~ that has been modified; ~~or~~and
- (2) The fact of its modification.

2.4.16 Within 20 working days of a request by any **person**, the **GTB** must provide to the **person** and **publicly disclose** the **prescribed terms and conditions** of the **prescribed contract** described in clause 2.4.15 ~~above~~, with the exception of **prescribed terms and conditions** that specify, determine or provide for the determination of the **price** at which goods and services are to be supplied.

2.4.17 Every **GTB** must, when **publicly disclosing** or disclosing on request to any **person** (as the case may be) the **prescribed terms and conditions** of a **non-standard contract** under any of clauses 2.4.12, 2.4.13, or 2.4.16 ~~of this section~~, include the following information-

- (1) The maximum monthly amount of gas (in gigajoules) to be conveyed to the **consumer** under the **contract**, or (if the amount is not quantified in the **contract**) a reasonable estimate of that amount based on the duration of the **contract**;

- (2) The month in which the supply of the maximum monthly amount of gas referred to in subclause 2.4.17(1) of this section is to occur, or is most likely to occur;
- (3) The pressure or pressures at which the gas is to be supplied or conveyed under that **contract**, or (if the pressure is not specified in the **contract**) a reasonable estimate of that pressure.

Disclosure of prices

2.4.18 Every **GTB** must at all times **publicly disclose**-

- (1) Each current **price** expressed in a manner that enables individual **consumers** to determine the total **price for gas transmission services** which is applicable to them;
- (2) The number (or estimated number) of **consumers** which must pay each **price**;
- (3) The date at which each **price** was or will be first introduced;
- (4) The **prices** represented by each **price component** applicable to them; and
- (5) The **price** that was payable immediately before each current **price** (if any) expressed in the manner referred to in subclause (1) ~~above~~.

2.4.19 Every **GTB** must, at least 20 working days before changing or withdrawing a **price** or introducing a new **price**-

(1) **Publicly disclose**-

- (a) the information specified in clause 2.4.18 ~~of this section~~ in respect of that **price**;
- (b) an explanation of the reasons for the new **price** or the changed or withdrawn **price**; and

(2) In addition, either-

- (a) give written notice to each consumer by whom that price is, or in the case of a withdrawn price would have been, payable, including the information specified in clause 2.4.18 ~~above~~ in respect of that price; or
- (b) notify in the news section of either-
 - (i) 2 separate editions of each newspaper; or

- (ii) news media accessible using the internet that is widely read by **consumers** connected to the **GTB's** network, details of the **price**, including-
- (iii) the changed price alongside the immediately preceding price applicable; and
- (iv) contact details where further details of the new or changed price can be found including the URL of the **GTB's** publicly accessible website.

Annual disclosure of information on quantities and revenues billed

- 2.4.20 Within 6 months ~~after~~ of the end of each **disclosure year**, every **GTB** must **publicly disclose** the information specified in Schedule 8.

2.5 NON-FINANCIAL INFORMATION RELATING TO NETWORK ASSETS

Annual disclosure of information on network assets and reliability

- 2.5.1 Within 6 months after the end of each **disclosure year**, every **GTB** must—

- (1) Complete each of the following reports by inserting all information relating to the **gas transmission services** supplied by the **GTB** for the **disclosure years** provided for in the following reports-
 - (a) the Asset Register set out in Schedule 9a;
 - (b) the Asset Age Profile set out in Schedule 9b;
 - (c) the Report on Pipeline Data set out in Schedule 9c;
 - (d) the Report on Demand set out in Schedule 9d;
 - (e) the Report on Network Reliability and Interruptions set out in Schedule 10a
 - (f) the Report on Network Integrity in Schedule 10b; and

~~(g)~~(2) **publicly disclose** each of these reports.

Disclosure of information on peak flows, gas transmission capacity, and capacity reservations

Formatted: Heading H5: Clause subtext L1

2.5.2 Peak flow information-

(1) Subject to subclause 2.5.2(4) ~~below~~, by the end of November in each year, every **GTB** must **publicly disclose** in respect of the most recent 12 month period ended 30 September-

(a) for each **transmission system**, the information specified in subclause 2.5.2(2) ~~below~~;

Formatted: Font: Bold

(b) for each **offtake point** with a throughput of gas during the **system peak** flow period of 2,000 GJ or more, the information specified in subclause 2.5.2(3) ~~below~~;

Formatted: Font: Bold

Formatted: Font: Bold

(2) The information referred to in subclause ~~(1)(a)~~ 2.5.3(1)(a) ~~above~~ is-

(a) the end date and duration of the **system peak** flow period;

Formatted: Font: Bold

(b) the total throughput of gas (in GJ) at each **intake point** during the **system peak** flow period;

Formatted: Font: Bold

(3) The information referred to in subclause 2.5.2(1)(b) ~~above~~ is-

(a) the end date and duration of the **offtake peak** flow period;

Formatted: Font: Bold

(b) the throughput of gas (in GJ) at the **offtake point** in each hour of the **system peak** flow period;

Formatted: Font: Bold

Formatted: Font: Bold

(c) the total throughput of gas (in GJ) at the **offtake point** during the **system peak** flow period;

Formatted: Font: Bold

Formatted: Font: Bold

(d) the total throughput of gas (in GJ) at the **offtake point** during the **offtake peak** flow period;

Formatted: Font: Bold

Formatted: Font: Bold

(4) Notwithstanding subclause 2.5.2(1) ~~above~~, **public disclosure** is deemed to have occurred if the information specified in subclauses 2.5.2(2) and 2.5.2(3) is posted on a website normally used for the publication of the **GTB's** transmission data within one week after the end of the **disclosure year** and can be readily accessed at no charge by interested **persons**, with the information retained on such a website for a period of not less than five years.

Formatted: Font: Bold

Formatted: Font: Bold

2.5.3 Capacity allocation methodology-

(1) Within 6 months after the end of each **disclosure year**, every **GTB** must **publicly disclose** a description of the extent to which current capacity

allocation methodologies result in efficient outcomes. The disclosure must include a description of-

- (a) the methodology or methodologies used to determine how capacity is assigned;
 - (b) which, if any, requests for capacity was approved in full or in part during the **disclosure year**, including how, if at all, the quantity of uncommitted capacity in the pipeline was determined;
 - (c) the extent of unmet demand for capacity during the past **disclosure year**, including the information specified in [sub](#)clause 2.5.3(2) ~~below~~.
- (2) The information referred to in subclause 2.5.3(1)(c) ~~above~~ is as follows-
- (a) total number of requests for firm capacity that the **GTB** has not approved in full in the past **disclosure year**;
 - (b) maximum daily quantities associated with the requests referred to in subclause 2.5.3(2)(a) ~~above~~, aggregated by **offtake point**;
 - (c) in respect of each request for firm capacity not approved in full, the reasons for the request not being fulfilled.

Formatted: Font: Bold

2.5.4 Transmission System Capacity Reservations-

- (1) Within 6 months after the end of each **disclosure year**, in respect of the firm capacity held or reserved by-
 - (a) the **GTB**, including any **person** involved in the **GTB**; and
 - (b) all other **persons** collectively;
 - (c) every **GTB** must **publicly disclose** the information specified in [sub](#)clause 2.5.4(2) ~~below~~ concerning the capacity reservations that applied to the **offtake points** specified in [sub](#)clause 2.5.4(3) on the days specified in [sub](#)clause 2.5.4(4) ~~below~~;
- (2) The information referred to in subclause 2.5.4(1)(c) ~~above~~ is as follows-
 - (a) the effective maximum daily quantity (in GJ) applicable to the aggregate amount of firm capacity;
 - (b) the effective maximum hourly quantity (in GJ) applicable to the aggregate amount of firm capacity;

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Font: Bold

- (c) the nominal delivery pressure where such pressure is greater than 20 bar gauge;
- (3) The **offtake points** referred to in subclause 2.5.4(1) above are the **offtake points**-
 - (a) with a throughput of gas in the **system peak** flow period of 2,000 GJ or more; or
 - (b) a contractual firm maximum daily quantity in the **system peak** flow period of 10,000 GJ or more, irrespective of the throughput; or
 - (c) with a nominal delivery pressure greater than 20 bar gauge in the **system peak** flow period;
 - (d) with all other **offtake points** taken together as a group;
- (4) The days referred to in subclause 2.5.4(1) above are-
 - (a) the last day of the preceding **pricing disclosure year**;
 - (b) the first day of the new **pricing disclosure year**;
 - (c) the first day in the **system peak** flow period.

2.6 ASSET MANAGEMENT PLANS AND FORECAST INFORMATION

2.6.1 Subject to subclauses 2.6.3 of this section and 2.13.1, before the start of each **disclosure year** commencing with, for **Vector** the **disclosure year** 2014, and for **MDL** the **disclosure year** 2015, every **GTB** must

- 2.6.1(1) ~~C~~complete ~~and publicly disclose~~ an **AMP** that—
- ~~(1)~~(a) ~~r~~Relates to the **gas transmission services** supplied by the **GTB**;
 - ~~(a)~~(b) ~~m~~Meets the purposes of **AMP** disclosure set out in clause 2.6.2;
 - ~~(2)~~(c) ~~h~~Has been prepared in accordance with Attachment A to this determination;
 - ~~(3)~~(d) ~~c~~Contains the information set out in the schedules described~~completed tables required~~ in clause 2.6.52-6.5(2);
 - (e) ~~c~~Contains the Report on Asset Management Maturity as described in clause 3.5 of set out in Schedule 13;

(2) Completes the Report on Asset Management Maturity in accordance with the requirements specified in Schedule 13; and

~~(4)(3) Publicly disclose the AMP.-~~

2.6.2 The purposes of **AMP** disclosure referred to in subclause ~~2.6.1(1)(b)~~**2.6.1(2)** are that the **AMP**—

- (1) Must provide sufficient information for ~~an~~-interested **persons** to assess whether-
 - (a) assets are being managed for the long term;
 - (b) the required level of performance is being delivered; and
 - (c) costs are efficient and performance efficiencies are being achieved;
- (2) Must be capable of being understood by ~~an~~-interested **persons** with a reasonable understanding of the management of infrastructure assets;
- (3) Should provide a sound basis for the ongoing assessment of asset-related risks, particularly high impact asset-related risks.

Formatted: Font: Bold

Formatted: Font: Bold

2.6.3 Subject to clause 2.13.1, a GTB may elect to not comply with clause 2.6.1 in the current disclosure year if –

- (1) ~~The~~ start of the **disclosure year** described in clause 2.6.1 ~~above~~ is not-
 - (a) between 6 (inclusive) and 18 months after the start of the **DPP regulatory period**; or
 - (b) between 18 (inclusive) and 30 months before the start of the next **DPP regulatory period**, and
- (2) ~~The~~ **GTB** has **publicly disclosed** an **AMP** under clause 2.6.1 ~~above~~ in respect of ~~the~~ prior **disclosure year**; ~~and, then the GTB may –~~
- ~~(3) – Elect to not comply with clause 2.6.1 in the current disclosure year; and~~
- ~~(4)(3) the GTB~~ ~~completes~~ and **publicly discloses**, before the start of the **disclosure year**, an **AMP update** as described under clause 2.6.4 ~~below~~.

Formatted: Font: Not Bold

2.6.4 For the purpose of subclause ~~2.6.3(3)~~**2.6.3(4)**, the **AMP update** must—

- (1) Relate to the **gas transmission services** supplied by the **GTB**;

- (2) Identify any material changes to the **network** development plans disclosed in the last **AMP** under clause 14 of Attachment A or in the last **AMP update** disclosed under this section;
- (3) Identify any material changes to the lifecycle asset management (maintenance and renewal) plans disclosed in the last **AMP pursuant to** clause 15 of Attachment A or in the last **AMP update** disclosed under this section;
- (4) Provide the reasons for any material changes to the previous disclosures in the Report on Forecast Capital Expenditure set out in Schedule 11a and ~~R~~Report on Forecast Operational Expenditure set out in Schedule 11b ;
- (5) Provide an assessment of transmission capacity as set out in clause ~~8.10~~ of Attachment A;
- (6) Identify any material changes related to the legislative requirements as set out in subclause 3.6 of Attachment A; ~~and~~
- ~~(7)~~ Identify any changes to the asset management practices of the **GTB** that would affect a Schedule 13 Report on Asset Management Maturity disclosure; ~~and~~.

Formatted: Font: Bold

~~(7)~~(8) Contains the information set out in the schedules described in clause 2.6.5.

~~2.6.5~~ Every **GTB** must

~~(1)~~2.6.5 Before the start of each **disclosure year**, each **GTB** must complete and publicly disclose each of the following reports by inserting all information relating to the **gas transmission services** supplied by the **GTB** for the **disclosure years** provided for in the following reports—

Formatted: Heading H4: Clause text

- ~~(a)~~(1) the Report on Forecast Capital Expenditure in Schedule 11a;
- ~~(b)~~(2) the Report on Forecast Operational Expenditure in Schedule 11b;
- ~~(c)~~(3) the Report on Asset Condition in Schedule 12a;
- ~~(d)~~(4) the Report on Forecast Demand in Schedule 12b.;
- ~~(2)~~ Include, in the **AMP** or **AMP update** as applicable, the information contained in each of the reports described in subclause 2.6.5(1);

~~(3) Within 5 working days after publicly disclosing the AMP or AMP update as applicable, disclose these reports described in subclause 2.6.5(1) to the Commission;~~

~~(4) Within 6 months after the start of the disclosure year, publicly disclose these reports.~~

2.7 EXPLANATORY NOTES TO INFORMATION RELATING TO THE DISCLOSURE YEAR

2.7.1 Within 6 months ~~after~~ the end of each **disclosure year**, every **GTB** must complete and **publicly disclose** the Schedule of Mandatory Explanatory Notes (Schedule 14) by inserting all information relating to information disclosed in accordance with clauses 2.3.1, 2.4.20, ~~subclause 2.5.1(1)(e) 2.5.4~~ and ~~clause 2.12.2~~.

- (1) In relation to details of any insurance cover for the assets used to provide **gas transmission services**, the explanatory notes in Schedule 14 must include-
 - (a) the **GTB's** approaches and practices in regard to the insurance of assets, including the level of insurance;
 - (b) in respect of any self insurance, the level of reserves, details of how reserves are managed and invested, and details of any reinsurance.
- (2) Where an item disclosed in accordance with clause 2.3.1 is classified differently from the previous year, the explanatory notes in Schedule 14 must include the-
 - (a) nature of the item reclassified;
 - (b) value of the item in the current **disclosure year** and in the previous **disclosure year**;
 - (c) classification of the item in the previous **disclosure year**;
 - (d) classification of the item in the current **disclosure year**; and
 - (e) reason why the item has been reclassified.

- 2.7.2 ~~Before the start~~~~Within 6 months of the end~~ of each **disclosure year**, every **GTB** must complete and **publicly disclose** the Mandatory Explanatory Notes on Forecast Information in Schedule 14a by inserting all relevant information relating to information disclosed in accordance with clause 2.6.5.
- 2.7.3 Within 6 months ~~after~~~~of~~ the end of each **disclosure year**, every **GTB** may **publicly disclose** any further ~~explanatory~~ comment on the information disclosed in accordance with clauses 2.3.1, 2.4.20, 2.5.1 ~~and~~, 2.5.2 ~~and 2.6.5~~, in Schedule 15.

2.8 ASSURANCE REPORTS

2.8.1 Where a **GTB** is required to **publicly disclose** any **audited disclosure information**, the **GTB** must-

(1) Procure an assurance report by an **independent auditor** in respect of that **audited disclosure information**, that is prepared in accordance with Standard on Assurance Engagements 3100 – Compliance Engagements (SAE 3100) and International Standard on Assurance Engagements 3000 (ISAE (NZ) 3000) or their successor standards, signed by the **independent auditor** (either in his or her own name or that of his or her firm), that-

(a) is addressed to the **directors** of the **GTB** and to the **Commission** as the intended users of the assurance report;

Formatted: Font: Bold

(b) states-

(i) that it has been prepared in accordance with Standard on Assurance Engagements 3100 – Compliance Engagements (SAE 3100) and International Standard on Assurance Engagements 3000 (ISAE (NZ) 3000) or their successor standards; and

(ii) the work done by the **independent auditor**; and

(iii) the scope and limitations of the assurance engagement; and

(iv) the existence of any relationship (other than that of auditor) which the **independent auditor** has with, or any interests which the **independent auditor** has in, the **GTB** or any of its subsidiaries; and

(v) whether the **independent auditor** has obtained sufficient recorded evidence and explanations that he or she required and, if not, the information and explanations not obtained; and

(vi) whether, in the **independent auditor's** opinion, as far as appears from an examination, the information used in the preparation of the **audited disclosure information** has been properly extracted from the **GTB's** accounting and other

records, sourced from its financial and non-financial systems;
and

Formatted: Font: Bold

(vii) whether, in the **independent auditor's** opinion, as far as appears from an examination of them, proper **records** to enable the complete and accurate compilation of the **audited disclosure information** required by the Gas Transmission Information Disclosure Determination 2012⁵ have been kept by the **GTB** and, if not, the **records** not so kept; and

(c) states whether (and, if not, the respects in which it has not), in the **independent auditor's** opinion, the **GTB** has complied, in all material respects, with the Gas Transmission Information Disclosure Determination 2012⁵ in preparing the **audited disclosure information**; and

(2) **Publicly disclose** the **independent auditor's** assurance report prepared in accordance with subclause 2.8.1(1) ~~above~~ at the same time as the **GTB** **publicly discloses** the **audited disclosure information**.

2.9 CERTIFICATES

- 2.9.1 Where a **GTB** is required to **publicly disclose** any information under any of clause 2.6.1, subclauses ~~2.6.3(3)~~~~2.6.3(4)~~, clauses ~~and 2.6.5(2)~~~~2.6.5~~ and ~~2.7.2~~~~2.12.12(1)(b)~~, ~~and subclause 2.13.1(1)(b)~~, the **GTB** must at that time **publicly disclose** a certificate in the form set out in Schedule 17 in respect of that information, duly signed by 2 **directors** of the **GTB**.
- 2.9.2 Where a **GTB** is required to **publicly disclose** any information under clause 2.4.1, the **GTB** must at that time **publicly disclose** a certificate in the form set out in Schedule 18 in respect of that information, duly signed by 2 **directors** of the **GTB**.
- 2.9.3 Where a **GTB** is required to **publicly disclose**, or disclose to the **Commission**, any information under any of clauses 2.3.1, 2.3.2, 2.4.20, 2.5.1, ~~and 2.7.1~~, and ~~2.12.2~~~~2.7.2~~ the **GTB** must at that time **publicly disclose** a certificate in the form set out in Schedule 19 in respect of that information, duly signed by 2 **directors** of the **GTB**.
- ~~2.9.4~~ Where a ~~**GTB**~~ is required to ~~**publicly disclose**~~ any information under clause ~~2.12.1~~, ~~2.12.2~~, ~~2.12.5~~, ~~2.12.6~~, ~~2.12.8~~, and ~~2.12.10~~ the ~~**GTB**~~ must at that time ~~**publicly disclose**~~ a certificate in the form set out in Schedule 20 in respect of that information, duly signed by 2 ~~**directors**~~ of the ~~**GTB**~~.

2.10 RETENTION AND CONTINUING DISCLOSURES

2.10.1 A **GTB** that is required by this determination to **publicly disclose** any information must retain, and continuously **publicly disclose**, that information for at least seven years from the date that information is first required to be **publicly disclosed**.

2.11 EXEMPTIONS

2.11.1 The **Commission** may at any time, by written notice to a **GTB**-

(1) Exempt the **GTB** from any or all of the requirements of this determination, for a period and on such terms and conditions as the **Commission** specifies in the notice; and

(2) Amend or revoke any such exemption.

2.12 DISCLOSURE OF ERRORS IN PREVIOUSLY DISCLOSED INFORMATION

2.12.1 Subject to clause 2.13.1, where an **error** is identified in previous information disclosures under clauses 2.3.1, 2.3.2, 2.4.20, 2.5.1, 2.7.1, 2.7.2 and 2.7.3 a **GTB** must-

(1) within 1 month of identifying the **error**, provide the **Commission** with-

(a) a description of the **error**;

(b) the disclosure and data point the **error** has an effect on; and

(c) an explanation of the effect on each of the previous disclosures, including an indication of the materiality of that effect.

(2) after disclosing the **error** to the **Commission** in accordance with subclause (1), disclose alongside the original disclosure-

(a) a description of the **error**;

(b) the schedules and data points the **error** effects; and

(c) where a disclosure relating to the **error** -

(i) has been made in accordance with clause 2.12.2, reference to the disclosure made in accordance with 2.12.2; or

Formatted: Heading H3: Section Heading

(ii) in all other instances, an indication of the effect on each of the disclosures.

2.12.2 For each material **error** identified in clause 2.12.1, every **GTB** must -

(1) include in the next Schedule 14 disclosed in accordance with clause 2.7.1-

(a) a description of the **error**;

(b) the previous and revised disclosures for each affected data point;

(c) the reason for the **error**; and

(2) certify and audit the disclosure in accordance with the certification and audit requirement of the original disclosure.

2.12.3 Subject to clause 2.13.1, where a material **error** is identified in previous information disclosures under clause 2.4.1 and 2.6.1, subclauses 2.6.3(3) and clause 2.6.5, a **GTB** must-

(1) disclose a new version of the disclosure in accordance with the requirement;

(2) certify the revised disclosure in accordance with the requirement of the ~~original~~ original disclosure;

(3) disclose on the front page of the disclosure made in accordance with subclause (1);

(a) that the disclosure is a revised disclosure;

(b) the date of the original disclosure and date of the revised disclosure; and

(c) reference to the information required to be disclosed in accordance with subclause (4);

(4) include in the revised disclosure, near to where the effected information is disclosed, a description of the amendment that is sufficient for ~~an~~ interested **persons** to understand the effect of the amendment on the disclosure; and

(5) **publicly disclose** the revised disclosure.

2.12.4 Information, disclosed in accordance with any requirement of this determination, that refers to information previously disclosed must-

- (1) where a disclosure has been made in accordance with clauses 2.12.2 or 2.12.3, be consistent with the information disclosed under clauses 2.12.2 or 2.12.3 ; or
- (2) in all other instances, be consistent with the original disclosure.

2.12.13 **TRANSITIONAL PROVISIONS**

Disclosure of transitional information by MDL

2.12.1 Subject to clause 2.12.8 below, within 6 months after the end of the **disclosure year 2013**, **MDL** must-

- (1) Complete the Report on Transitional Financial Information set out in Schedule 5h;
- (2) Complete the Report on Asset Allocations set out in Schedule 5e for the **disclosure years** 2010, 2011, and 2012 by inserting all information relating to the asset allocation for the **total opening RAB values** disclosed in Schedule 5h for those **disclosure years**. In completing part 5e(i) of Schedule 5e for the **disclosure years** 2010, 2011, and 2012 all allocations may be disclosed under **non network assets**;
- (3) Provide explanatory comment in Schedule 14b in relation to transitional financial information disclosed under this clause; and
- (4) **Publicly disclose** those reports.

2.12.2 Within 2 months after the end of **disclosure year 2013**, **MDL** must prepare a pipeline capacity disclosure report for the year ending 31 December 2012 that includes the following-

- (1) Subject to clause 2.12.3, the peak flow information set out in clause 2.5.2;
- (2) Subject to clause 2.12.4, the transmission system capacity information set out in clause 8 of Attachment A.

~~2.12.3—Notwithstanding subclause 2.5.2(1), the information required under subclause 2.12.2(1) must be prepared in respect of the 12 months ended 31 December 2012.~~

~~2.12.4—Notwithstanding subclause 10.2.1 of Attachment A, the information required under subclause 2.12.2(1) must be prepared in respect of the same system peak flow period as 2.12.2(2).~~

Disclosure of transitional information by Vector

~~2.12.5—Within 6 months after the end of the **disclosure year** 2013, **Vector** must—~~

- ~~(1)—Complete the Report on Transitional Financial Information set out in Schedule 5h;~~
- ~~(2)—Complete the Report on Asset Allocations set out in Schedule 5e for the 2010, 2011 and 2012 **disclosure years** by inserting all information relating to the asset allocation for the **total opening RAB values** disclosed in Schedule 5h for those **disclosure years**. In completing part 5e(i) of Schedule 5(e) for the 2010, 2011 and 2012 disclosure years all allocations may be disclosed under **non-network assets**;~~
- ~~(3)—Complete the Report on Regulatory Profit in Schedule 3 for the **disclosure year** 2012. In complying with this subclause and clause 2.12.6 **Vector** must determine the cost of any service, good or asset acquired from, or price of any service, good or asset sold to a **related party as follows**—
 - ~~(a)—the cost of any asset acquired from a **related party** must be determined in accordance with clause 2.2.11(1)(c)–(g) of the **IM determination**;~~
 - ~~(b)—the cost of any services or goods other than assets, acquired from a **related party** must be determined in accordance with **GAAP**;~~
 - ~~(c)—the price received for any sale or supply of services, goods or assets to a **related party** must be determined in accordance with **GAAP**;~~~~
- ~~(4)—Complete the Report on Related Party Transactions set out in Schedule 5b with respect to assets acquired from a **related party**;~~
- ~~(5)—Provide explanatory comment in Schedule 14b in relation to transitional financial information disclosed under this clause; and~~
- ~~(6)—**Publicly disclose** those reports.~~

~~2.12.6—Within 6 months after the end of the **disclosure year 2013**, **Vector** must complete and **publicly disclose** Schedule 8 for the **disclosure year 2012**.~~

~~*Annual transmission pipeline capacity disclosure not required for 12 months to 30 September 2012*~~

~~2.12.7—Subject to 2.12.2, **GTBs** are not required to make a disclosure under clause 2.5.2 by the end of November 2012.~~

~~*Information on initial RAB value and asset adjustment process*~~

~~2.12.8—Subject to clause 2.12.9, where a **GTB** has previously elected to undertake an adjustment in accordance with clause 2.2.1 of the **IM Determination**, within 6 months after the end of the **disclosure year 2013** the **GTB** must **publicly disclose** the asset adjustment schedule and engineer's report that had previously been disclosed to the **Commission** under the relevant Notice to Supply Information to the Commission issued under section 53ZD of the Act.~~

~~2.12.9—Where a **GTB** has disclosed information to the **Commission** on the **initial RAB** and asset adjustment process as provided for under clauses 2.2.1 to 2.2.3 of the **IM Determination**, the information disclosed in accordance with clauses 2.12.1 and 2.12.5 must be consistent with that disclosure.~~

~~*Initial disclosures of historic information*~~

~~2.12.10—The following transitional provisions apply in respect of the **disclosure year 2013**.~~

~~(1)—In completing the Report on Return on Investment set out in Schedule 2—~~

~~(a)—**MDL** is not required to disclose information relating to CY 1 and CY 2;~~

~~(b)—subject to clause 2.12.5(3) **Vector** must disclose information in 2(i) of the Report on Return on Investment set out in Schedule 2 relating to CY 1, for the **disclosure year 2012**. **Vector** is not required to disclose information relating to CY 2;~~

~~(2)—In completing the Report on the Value of the Regulatory Asset Base (Rolled Forward) set out in Schedule 4—~~

~~(a)—**GTBs** are not required to provide information relating to CY 4, in part 4(i) of Schedule 4;~~

~~(b)—**GTBs** may disclose only 'Total closing RAB value' for each asset category;~~

- (3) — In completing the Report on Cost Allocations set out in Schedule 5d and the Report Supporting Cost Allocations set out in Schedule 5f, ~~GTBs~~ may disclose all allocations under ~~network support~~;
- (4) — In completing the Report on Asset Allocations set out in Schedule 5e and the Report Supporting Asset Allocations set out in Schedule 5g, ~~GTBs~~ may disclose all allocations under ~~non-network assets~~;
- (5) — In completing the Report on Capital Expenditure for the Disclosure Year set out in Schedule 6a, ~~GTBs~~ may choose to complete only part 6a(i);
- (6) — In completing the Comparison of Forecasts to Actual Expenditure set out in Schedule 7, ~~GTBs~~ may disclose aggregate forecast information for 'Capital expenditure' and 'Operational expenditure' only;
- (7) — The information in the Report on Capital Expenditure for the Disclosure Year set out in Schedule 6a, the Report on Operational Expenditure for the Disclosure Year set out in Schedule 6b, and the Comparison of Forecasts to Actual Expenditure set out in Schedule 7 will be excluded from the ~~audited disclosure information~~ for the ~~disclosure year~~ 2013;
- (8) — In disclosing the Asset Register set out in Schedule 9a, if information on opening values is not available, ~~GTBs~~ may provide only closing values for the disclosure year 2013;
- (9) — ~~MDL~~ is not required to disclose information after the end of the ~~disclosure year~~ 2013 that it would otherwise be required to disclose under clause 2.6.5(4) of this determination;
- (10) — In disclosure year 2014 ~~MDL~~ is not required to disclose information in 2(i) of the report on Return on Investment set out in Schedule 2 relating to CY 2.

Initial AMP disclosure for Vector

~~2.12.11~~ Notwithstanding any requirements set out in clauses 2.6.1, and 2.6.5, **Vector** is not required to complete and **publicly disclose** an **AMP** until 3 months after the commencement of **disclosure year 2014**.

Transitional AMP requirements for MDL

~~2.12.12~~2.13.1 Notwithstanding any requirements set out in clauses 2.6.1, 2.6.2, 2.6.3, and 2.6.4, the following transitional provision applies to **MDL** in respect of each **disclosure year** before and during the first **DPP regulatory period**-

- (1) If **MDL** has not **publicly disclosed** an **AMP** under clause 2.6.1 then **MDL** may elect to-
 - (a) not comply with clauses 2.6.1, and 2.6.2 in the current **disclosure year**; and
 - (b) complete and **publicly disclose** before the start of the **disclosure year** a **transitional AMP** that meets the requirements of subclause ~~(2)~~2.12.12(2) below;
- (2) The **transitional AMP** must-
 - (a) relate to the **gas transmission services** supplied by the **GTB**;
 - (b) be identifiable as a **transitional AMP** prepared pursuant to clause ~~2.13.12.12(2)~~ of this determination;
 - (c) include the minimum requirements set out in subclause ~~(3)~~2.12.12(3);
 - (d) include the forecast information set out in clause 2.6.5;
 - (e) provide an assessment of transmission capacity as set out in clause 8 of Attachment A;
 - (f) provide the information related to legislative requirements as set out in subclause 3.6 of Attachment A;
 - (g) include the Report on Asset Management Maturity set out in Schedule 13;
 - (h) identify where the **GTB** considers the **AMP** does not yet conform to the requirements in clause 2.6.1, and set out the actions the **GTB** is

Formatted: Font: Bold

taking to ensure the **AMP** will conform before the end of the first **DPP regulatory period**;

- (i) identify any actions the **GTB** has completed in order to conform to the requirements in clause 2.6.1;

(3) The **transitional AMP** must include the following-

- (a) a summary that provides a brief overview of the contents and highlights information that the **GTB** considers significant;
- (b) details of the background and objectives of the **GTB's** asset management and planning processes;
- (c) details of the **AMP planning period**, which must cover at least a projected period of 10 years commencing with the **disclosure year** following the date on which the **AMP** is required to be disclosed;
- (d) the date that it was approved by the **directors**;
- (e) a description of stakeholder interests, as set out in subclause 3.7 of Attachment A;
- (f) a description of the accountabilities and responsibilities for asset management, as set out in subclause 3.8 of Attachment A;
- (g) an overview of asset management strategy and delivery;
- (h) an overview of systems and information management data;
- (i) an overview of asset management documentation, controls and review processes;
- (j) details of the assets covered;
- (k) a clear identification or definition of a set of asset management performance indicators;
- (l) a description of **network** development plans and lifecycle management processes, covering material projects and programmes across the planning period;
- (m) details of risk policies, assessment and mitigation.

Formatted: Font: Bold

Formatted: Font: Bold

Transitional provisions for pricing information

~~2.12.13~~ The information required under—

- (1) — clauses 2.4.1 to 2.4.5;
- (2) — clause 2.4.6;
- (3) — clauses 2.4.9 to 2.4.11;
- (4) — clauses 2.4.18 and 2.4.19;

is not required to be ~~publicly disclosed~~ for the first time until 5 months after the ~~commencement date~~.

Sue Begg, *Deputy Chair*

Dated at Wellington this day of 2012~~5~~.

COMMERCE COMMISSION

Attachment A ASSET MANAGEMENT PLANS

*This attachment sets out the mandatory disclosure requirements with respect to **AMPs**. The text in italics provides a commentary on those requirements. The purpose of the commentary is to provide guidance on the expected content of disclosed **AMPs**. The commentary has been prepared on the basis that **GTBs** will implement best practice asset management processes.*

AMP design

1. The core elements of asset management-
 - 1.1 A focus on measuring **network** performance, and managing the assets to achieve service targets;
 - 1.2 Monitoring and continuously improving asset management practices;
 - 1.3 Close alignment with corporate vision and strategy;
 - 1.4 That asset management is driven by clearly defined strategies, business objectives and service level targets;
 - 1.5 That responsibilities and accountabilities for asset management are clearly assigned;
 - 1.6 An emphasis on knowledge of what assets are owned and why, the location of the assets and the condition of the assets;
 - 1.7 An emphasis on optimising asset utilisation and performance;
 - 1.8 That a total life cycle approach should be taken to asset management;
 - 1.9 That the use of 'non-network' solutions and demand management techniques as alternatives to asset acquisition is considered.
2. The disclosure requirements are designed to produce **AMPs** that—
 - 2.1 Are based on, but are not limited to, the core elements of asset management identified in clause 1-~~above~~;
 - 2.2 Are clearly documented and made available to all stakeholders;
 - 2.3 Contain sufficient information to allow interested **persons** to make an informed judgement about the extent to which the **GTB's** asset management processes meet best practice criteria and outcomes are consistent with outcomes produced in competitive markets;
 - 2.4 Specifically support the achievement of disclosed service level targets;
 - 2.5 Emphasise knowledge of the performance and risks of assets and identify opportunities to improve performance and provide a sound basis for ongoing risk assessment;

Formatted: Font: Bold

Formatted: Font: Bold

- 2.6 Consider the mechanics of delivery including resourcing;
- 2.7 Consider the organisational structure and capability necessary to deliver the **AMP**;
- 2.8 Consider the organisational and contractor competencies and any training requirements;
- 2.9 Consider the systems, integration and information management necessary to deliver the plans;
- 2.10 To the extent practical, use unambiguous and consistent definitions of asset management processes and terminology consistent with the terms used in this attachment to enhance comparability of asset management practices over time and between **GTBs**; [and](#)
- 2.11 Promote continual improvements to asset management practices.

*Disclosing an **AMP** does not constrain a **GTB** from managing its assets in a way that differs from the **AMP** if circumstances change after preparing the **AMP** or if the **GTB** adopts improved asset management practices.*

Contents of the AMP

3. The **AMP** must include the following-
 - 3.1 A summary that provides a brief overview of the contents and highlights information that the **GTB** considers significant;
 - 3.2 Details of the background and objectives of the **GTB's** asset management and planning processes; [and](#)
 - 3.3 A purpose statement which-
 - 3.3.1 makes clear the purpose and status of the **AMP** in the **GTB's** asset management practices. The purpose statement must also include a statement of the objectives of the asset management and planning processes;
 - 3.3.2 states the corporate mission or vision as it relates to asset management;
 - 3.3.3 identifies the documented plans produced as outputs of the annual business planning process adopted by the **GTB**;
 - 3.3.4 states how the different documented plans relate to one another, with particular reference to any plans specifically dealing with asset management; [and](#)

3.3.5 includes a description of the interaction between the objectives of the **AMP** and other corporate goals, business planning processes, and plans.

*The purpose statement should be consistent with the **GTB's** vision and mission statements and show a clear recognition of stakeholder interest.*

3.4 Details of the **AMP planning period**, which must cover at least a projected period of 10 years ~~asset management planning period~~ commencing with the **disclosure year** following the date on which the **AMP** is disclosed.

*Good asset management practice recognises the greater accuracy of short-to-medium term planning, and will allow for this in the **AMP**. The asset management planning information for the second 5 years of the **AMP planning period** need not be presented in the same detail as the first 5 years.*

3.5 The date that it was approved by the **directors**.

3.6 A description of each of the legislative requirements directly affecting management of the assets, and details of-

~~3.6.1~~—how the **GTB**

~~3.6.2~~ 3.6.1 meets the requirements; and

~~3.6.3~~ 3.6.2 the impact on asset management.

3.7 A description of stakeholder interests (owners, **consumers**, etc) which identifies important stakeholders and indicates-

3.7.1 how the interests of stakeholders are identified;

3.7.2 what these interests are;

3.7.3 how these interests are accommodated in asset management practices; and

3.7.4 how conflicting interests are managed.

3.8 A description of the accountabilities and responsibilities for asset management on at least 3 levels, including-

3.8.1 governance—a description of the extent of **director** approval required for key asset management decisions and the extent to which asset management outcomes are regularly reported to **directors**;

- 3.8.2 executive—an indication of how the in-house asset management and planning organisation is structured; [and](#)
- 3.8.3 field operations—an overview of how field operations are managed, including a description of the extent to which field work is undertaken in-house and the areas where outsourced contractors are used.
- 3.9 All significant assumptions-
 - 3.9.1 quantified where possible;
 - 3.9.2 clearly identified in a manner that makes their significance understandable to interested **persons**, and including;
 - 3.9.3 a description of changes proposed where the information is not based on the **GTB's** existing business;
 - 3.9.4 the sources of uncertainty and the potential effect of the uncertainty on the prospective information; [and](#)
 - 3.9.5 the price inflator assumptions used to prepare the financial information disclosed in **nominal New Zealand dollars** in the Report on Forecast Capital Expenditure set out in Schedule 11a and the Forecast on Forecast Operational Expenditure set out in Schedule 11b.
- 3.10 A description of the factors that may lead to a material difference between the prospective information disclosed and the corresponding actual information recorded in future disclosures.
- 3.11 An overview of asset management strategy and delivery.

*To support the [Report on Asset Management Maturity](#) disclosure and assist interested **persons** to assess the maturity of asset management strategy and delivery, the **AMP** should identify-*

 - 1. *how the asset management strategy is consistent with the **GTB's** other strategy and policies;*
 - 2. *how the asset strategy takes into account the life cycle of the assets;*
 - 3. *the link between the asset management strategy and the **AMP**;*
 - 4. *processes that ensure costs, risks and system performance will be effectively controlled when the **AMP** is implemented.*
- 3.12 An overview of systems and information management data.

Formatted: Font: Bold

Formatted: Font: Bold

To support the [Report on Asset Management Maturity](#)^{AMMAT} disclosure and assist interested **persons** to assess the maturity of systems and information management, the **AMP** should describe-

Formatted: Font: Bold

1. the processes used to identify asset management data requirements that cover the whole of life cycle of the assets;
2. the systems used to manage asset data and where the data is used, including an overview of the systems to record asset conditions and operation capacity and to monitor the performance of assets;
3. the systems and controls to ensure the quality and accuracy of asset management information; and
4. the extent to which these systems, processes and controls are integrated.

- 3.13 A statement covering any limitations in the availability or completeness of asset management data and disclose any initiatives intended to improve the quality of this data.

*Discussion of the limitations of asset management data is intended to enhance the transparency of the **AMP** and identify gaps in the asset management system.*

- 3.14 A description of the processes used within the **GTB** for-

- 3.14.1 managing routine asset inspections and **network** maintenance;
- 3.14.2 planning and implementing **network** development projects;
[and](#)
- 3.14.3 measuring **network** performance.

- 3.15 An overview of asset management documentation, controls and review processes.

To support the [Report on Asset Management Maturity](#)^{AMMAT} disclosure and assist interested **persons** to assess the maturity of asset management documentation, controls and review processes, the **AMP** should-

Formatted: Font: Bold

1. identify the documentation that describes the key components of the asset management system and the links between the key components;
2. describe the processes developed around documentation, control and review of key components of the asset management system;

3. *where the **GTB** outsources components of the asset management system, the processes and controls that the **GTB** uses to ensure efficient and cost effective delivery of its asset management strategy;*
4. *where the **GTB** outsources components of the asset management system, the systems it uses to retain core asset knowledge in-house; and*
5. *audit or review procedures undertaken in respect of the asset management system.*

3.16 An overview of communication and participation processes.

To support the [Report on Asset Management Maturity](#) disclosure and assist interested persons to assess the maturity of asset management documentation, controls and review processes, the AMP should-

Formatted: Font: Bold

1. *communicate asset management strategies, objectives, policies and plans to stakeholders involved in the delivery of the asset management requirements, including contractors and consultants; and*
2. *demonstrate staff engagement in the efficient and cost effective delivery of the asset management requirements.*

4. The AMP must present all financial values in **constant price** New Zealand dollars except where specified otherwise.

Formatted: Font: Not Bold

5. The AMP must be structured and presented in a way that the GTB considers will support the purposes of AMP disclosure set out in clause 2.6.22 of the determination.

Assets covered

6. The AMP must provide details of the assets covered, including—

- 6.1 A high level map indicating the geographic location of the **network**; and
- 6.2 A diagram, with any cross-referenced information contained in an accompanying schedule, of each **transmission system** of the pipeline owner showing the following details-
 - 6.2.1 all assets in the system with notations showing-
 - (a) internal, external, or nominal pipe diameters used (identifying whether internal, external, or nominal pipe diameters are used); and
 - (b) pipe design pressure ratings; and

Formatted: Font: Bold

- (c) all **stations, main-line valves, intake points** and **offtake points**, including a unique identifier for each item; and
- (d) the distance between the items referred to in subclause 6.2.1(c) of this attachment; and

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Font: Bold

Formatted: Font: Bold

6.2.2 if applicable, the points where a significant change has occurred since the previous disclosure of the information referred to in subclause 6.2.1 of this attachment, including-

- (a) a clear description of every point on the **network** that is affected by the change; and
- (b) a statement as to whether the capacity of the **network**, at the points where the change has occurred, or other points (as the case may be) has increased or decreased or is not affected; and
- (c) a description of the change.

Formatted: Font: Bold

Formatted: Font: Bold

6.3 The **AMP** must describe the **network** assets by providing the following information for each asset category-

6.4 Description and quantity of assets;

6.5 Age profiles; and

6.6 A discussion of the condition of the assets, further broken down into more detailed categories as appropriate. Systemic issues leading to the premature replacement of assets or parts of assets should be discussed.

7. The asset categories discussed in subclause 6.3 of this attachment should include at least the following-

7.1 the categories listed in the Report on Forecast Capital Expenditure in Schedule 11a; and

7.2 assets owned by the **GTB** but installed at facilities owned by others.

Transmission system capacity

8. The **AMP** must include an assessment of the extent to which physical pipeline capacity is adequate to address the current and anticipated future needs of **consumers**, taking into account expected demands on the **transmission system** and the **GTB's** investment plans.

Formatted: Font: Bold

8.1 The assessment must include the following-

8.1.1 Subject to subclauses 8.2, 8.3 and 8.4 below, for each **offtake point** with a throughput of gas during the **system peak** flow period of 2,000 GJ or more, an analysis of available capacity,

Formatted: Font: Bold

Formatted: Font: Bold

- including a description of any potential **transmission system** constraints;
- 8.1.2 a description of the extent to which the **GTB's** planned investments will affect the constraints identified in subclause 8.1.1 of this attachment; and
- 8.1.3 a description of the extent to which constraints identified in subclause 8.1.1 of this attachment are impacting upon the quality of service provided to existing **consumers**.
- 8.2 The analysis of available capacity disclosed pursuant to subclause 8.1.1 of this attachment for each **offtake point** must separately assume that the throughput of gas or the gas pressure requirements at the other **offtake points** on the **transmission system**-
- 8.2.1 occurred during a recent **system peak** flow period; and
- 8.2.2 maintain observed trends, eg, growth trends, peak demand factors and trendline adjustments, or other modelled behaviours.
- 8.3 For the purposes of subclause 8.1.1 of this attachment, the **AMP**-
- 8.3.1 may treat **offtake points** that are supplied from a common physical connection to a pipeline as a single **offtake point**, provided that this is noted in the **AMP**;
- 8.3.2 must describe the modelling methodology and include all material assumptions, including peak flow period throughputs not contributing to capacity constraints (e.g., interruptible flows); physical boundaries of the **transmission system**; sources of data used; modelled representation of the **transmission systems** and its operational constraints;
- 8.3.3 must identify the recent **system peak** flow periods used in the subclause 8.2.1 analysis, and must either set out the peak flow information specified in subclauses 2.5.2(1)(a) and 2.5.2(1)(b) of this determination, or provide reference to a website at which interested **persons** can readily access the same information at no charge as specified in subclause 2.5.2(4) of this determination; and
- 8.3.4 must include the name, version and source of any commercial computer software used to simulate the **transmission system**.
- 8.4 If the analysis specified in subclause 8.1.1 of this attachment is posted on a website normally used by the **GTB** for the publication of information and can be readily accessed at no charge by interested **persons**, the analysis may be incorporated in the **AMP** by reference

Formatted: Font: Bold

subject to the information being retained on such a website for a period of not less than five years.

Service Levels

9. The **AMP** must clearly identify or define a set of performance indicators for which annual performance targets have been defined. The annual performance targets must be consistent with business strategies and asset management objectives and be provided for each year of the **AMP planning period**. The targets should reflect what is practically achievable given the current **network** configuration, condition and planned expenditure levels. The targets should be disclosed for each year of the **AMP planning period**.
10. Performance indicators for which targets have been defined in clause 9 [above](#) must include the DPP requirements required under the price quality path determination applying to the regulatory assessment period in which the next **disclosure year** falls.

Performance indicators for which targets have been defined in clause 9 [above](#) should also include-
 1. **consumer** oriented indicators that preferably differentiate between different **consumer** groups; [and](#)
 2. indicators of asset performance, asset efficiency and effectiveness, and service efficiency, such as technical and financial performance indicators related to the efficiency of asset utilisation and operation.
11. The **AMP** must describe the basis on which the target level for each performance indicator was determined. Justification for target levels of service includes **consumer** expectations or demands, legislative, regulatory, and other stakeholders' requirements or considerations. The **AMP** should demonstrate how stakeholder needs were ascertained and translated into service level targets.
12. Targets should be compared to historic values where available to provide context and scale to the reader.
13. Where forecast expenditure is expected to materially affect performance against a target defined in clause 9 [above](#), the target should be consistent with the expected change in the level of performance.

*Performance against target must be monitored for disclosure in the Evaluation of Performance section of each subsequent **AMP**.*
14. **AMPs** must provide a detailed description of **network** development plans, including—
 - 14.1 A description of the planning criteria and assumptions for **network** development.

Formatted: Font: Bold

*Planning criteria for **network** developments should be described logically and succinctly. Where probabilistic or scenario-based planning techniques are used, this should be indicated and the methodology briefly described.*

- 14.2 A description of strategies or processes (if any) used by the **GTB** that promote cost efficiency including through the use of standardised assets and designs;

The use of standardised designs may lead to improved cost efficiencies. This section should discuss-

1. *the categories of assets and designs that are standardised; and*
2. *the approach used to identify standard designs.*

- 14.3 A description of the criteria used to determine the capacity of new equipment for different types of assets or different parts of the **network**;

*The criteria described should relate to the **GTB's** philosophy in managing planning risks.*

- 14.4 A description of the process and criteria used to prioritise **network** development projects and how these processes and criteria align with the overall corporate goals and vision;

14.4.1 Details of demand forecasts, the basis on which they are derived, and the specific **network** locations where constraints are expected due to forecast increases in demand;

14.4.2 Explain the load forecasting methodology and indicate all the factors used in preparing the load estimates;

14.4.3 Provide separate forecasts to at least off-take points covering at least a minimum 5 year forecast period. Discuss how uncertain but substantial individual projects/developments that affect load are taken into account in the forecasts, making clear the extent to which these uncertain increases in demand are reflected in the forecasts; and

14.4.4 Identify any **network** or equipment constraints that may arise due to the anticipated growth in demand during the **AMP planning period**;

Formatted: Font: Bold

- 14.5 Analysis of the significant **network** level development options identified and details of the decisions made to satisfy and meet target levels of service, including-

14.5.1 the reasons for choosing a selected option for projects where decisions have been made;

- 14.5.2 the alternative options considered for projects that are planned to start in the next 5 years; [and](#)
 - 14.5.3 consideration of planned innovations that improve efficiencies within the **network**, such as improved utilisation, extended asset lives, and deferred investment.
- 14.6 A description and identification of the **network** development programme and actions to be taken, including associated expenditure projections. The **network** development plan must include-
- 14.6.1 a detailed description of the material projects and a summary description of the non-material projects currently underway or planned to start within the next 12 months;
 - 14.6.2 a summary description of the programmes and projects planned for the following 4 years (where known); and
 - 14.6.3 an overview of the material projects being considered for the remainder of the **AMP planning period**.
- For projects included in the **AMP** where decisions have been made, the reasons for choosing the selected option should be stated which should include how target levels of service will be impacted. For other projects planned to start in the next 5 years, alternative options should be discussed.*
- 14.7 A description of the extent to which the disclosed **network** development plans meet the loads anticipated in current gas demand forecasts prepared by the Gas Industry Company or any Government department or agency.

Lifecycle Asset Management Planning (Maintenance and Renewal)

15. The **AMP** must provide a detailed description of the lifecycle asset management processes, including—
- 15.1 The key drivers for maintenance planning and assumptions;
 - 15.2 Identification of **routine and corrective maintenance and inspection** policies and programmes and actions to be taken for each asset category, including associated expenditure projections. This must include-
 - 15.2.1 the approach to inspecting and maintaining each category of assets, including a description of the types of inspections, tests and condition monitoring carried out and the intervals at which this is done;

15.2.2 any systemic problems identified with any particular asset types and the proposed actions to address these problems; and

15.2.3 budgets for maintenance activities broken down by asset category for the **AMP planning period**.

15.3 Identification of **asset replacement and renewal** policies and programmes and actions to be taken for each asset category, including associated expenditure projections. This must include-

Formatted: Font: Not Bold

15.3.1 the processes used to decide when and whether an asset is replaced or refurbished, including a description of the factors on which decisions are based;

15.3.2 a description of the projects currently underway or planned for the next 12 months;

15.3.3 a summary of the projects planned for the following 4 years (where known); and

15.3.4 an overview of other work being considered for the remainder of the **AMP planning period**.

15.4 The asset categories discussed in subclauses 15.2 and 15.3 [above](#) should include at least the categories in [sub](#)clause 7.

Non-Network Development, Maintenance and Renewal

16. **AMPs** must provide a summary description of material non-network development, maintenance and renewal plans, including—

16.1 a description of **non-network assets**;

Formatted: Font: Bold

16.2 development, maintenance and renewal policies that cover them;

16.3 a description of material **capital expenditure** projects (where known) planned for the next 5 years; [and](#)

Formatted: Font: Bold

16.4 a description of material maintenance and renewal projects (where known) planned for the next 5 years.

Risk Management

17. **AMPs** must provide details of risk policies, assessment, and mitigation, including—

17.1 methods, details and conclusions of risk analysis;

17.2 strategies used to identify areas of the **network** that are vulnerable to high impact low probability events and a description of the resilience of the **network** and asset management systems to such events; [and](#)

- 17.3 a description of the policies to mitigate or manage the risks of events identified in subclause [17.247.4](#) of this attachment;
18. Details of emergency response and contingency plans.

*Asset risk management forms a component of a **GTB's** overall risk management plan or policy, focusing on the risks to assets and maintaining service levels. **AMPs** should demonstrate how the **GTB** identifies and assesses asset related risks and describe the main risks within the **network**. The focus should be on credible low-probability, high-impact risks. Risk evaluation may highlight the need for specific development projects or maintenance programmes. Where this is the case, the resulting projects or actions should be discussed, linking back to the development plan or maintenance programme.*

Evaluation of performance

19. **AMPs** must provide details of performance measurement, evaluation, and improvement, including—
- 19.1 A review of progress against plan, both physical and financial;
1. *Referring to the most recent disclosures made under section 2.6 of this determination, discussing any significant differences and highlighting reasons for substantial variances;*
 2. *Commenting on the progress of development projects against that planned in the previous **AMP** and provide reasons for substantial variances along with any significant construction or other problems experienced; [and](#)*
 3. *Commenting on progress against maintenance initiatives and programmes and discuss the effectiveness of these programmes noted;*
- 19.2 An evaluation and comparison of actual service level performance against targeted performance.
- In particular, comparing the actual and target service level performance for all the targets discussed under the 'service levels' section of the **AMP** over the previous 5 years and explain any significant variances;*
- 19.3 An evaluation and comparison of the results of the asset management maturity assessment disclosed in the Report on Asset Management Maturity set out in Schedule 13 against relevant objectives of the **GTB's** asset management and planning processes; [and](#)
- 19.4 An analysis of gaps identified in subclauses 19.2 and 19.3 ~~above~~. Where significant gaps exist (not caused by one-off factors), the **AMP** must describe any planned initiatives to address the situation.

Capability to deliver

| 20. **AMPs** must describe the processes used by the **GTB** to ensure that-

| 20.1 The **AMP** is realistic and the objectives set out in the plan can be achieved; and

| 20.2 The organisation structure and the processes for authorisation and business capabilities will support the implementation of the **AMP** plans.

Schedule 1 Analytical Ratios

<p>Company Name</p> <p>For Year Ended</p>	
<p>SCHEDULE 1: ANALYTICAL RATIOS</p> <p>This schedule calculates expenditure, revenue and service ratios from the information disclosed. The disclosed ratios may vary for reasons that are company specific and, as a result, must be interpreted with care. The Commerce Commission will publish a summary and analysis of information disclosed in accordance with the ID determination. This will include information disclosed in accordance with this and other schedules, and information disclosed under the other requirements of the determination.</p> <p>This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.</p>	
7	<p>1 (i): Expenditure Metrics</p>
8	<p>Quantity of gas delivered (\$ per D)</p>
9	<p>System length (\$ per km)</p>
10	<p>Operational expenditure</p>
11	<p>Network</p>
12	<p>Non-network</p>
13	<p>Expenditure on assets</p>
14	<p>Network</p>
15	<p>Non-network</p>
16	<p>1 (ii): Service Intensity Measures</p>
17	<p>Volume density</p>
18	<p>Quantity of gas delivered per km of system length (T/km)</p>
19	<p>1 (iii): Composition of Revenue Requirement</p>
20	<p>Operational expenditure</p>
21	<p>Pass through and recoverable costs recognised in information disclosure</p>
22	<p>Total depreciation</p>
23	<p>Total I revaluations</p>
24	<p>Regulatory tax allowance</p>
25	<p>Regulatory profit/loss</p>
26	<p>Total regulatory income</p>
27	<p>% of revenue</p>
28	<p>Quantity of gas delivered per km of system length (T/km)</p>
29	<p>1 (iv): Reliability</p>
30	<p>Interruption rate</p>
31	<p>Interruptions per 100km of system length</p>
32	<p></p>
33	<p></p>

Schedule 2 Report on Return on Investment

		Company Name <input type="text"/>			
		For Year Ended <input type="text"/>			
SCHEDULE 2: REPORT ON RETURN ON INVESTMENT					
<p>This schedule requires information on the Return on Investment (ROI) for the GTB relative to the Commerce Commission's estimates of post tax WACC and vanilla WACC. GTBs must calculate their ROI based on a monthly basis if required by clause 2.3.3 of the ID determination or if they elect to. If a GTB makes this election, information supporting this calculation must be provided in 2(iii). GTBs must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.</p>					
<i>sch ref</i>					
7	2(i): Return on Investment		CY-2	CY-1	Current Year CY
8					
9	Post tax WACC		%	%	%
10	ROI – comparable to a post tax WACC	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
11					
12	Mid-point estimate of post tax WACC	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
13	25th percentile estimate	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
14	75th percentile estimate	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
15					
16	Vanilla WACC				
17					
18	ROI – comparable to a vanilla WACC	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
19					
20	Mid-point estimate of vanilla WACC	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
21	25th percentile estimate	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
22	75th percentile estimate	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
23					
24					
25	2(ii): Information Supporting the ROI				
26	Total opening RAB value	<input type="text"/>			
27	Opening RIV	<input type="text"/>		<input type="text"/>	
28					
29	Line charge revenue			<input type="text"/>	
30					
31	Expenses cash outflow	<input type="text"/>		<input type="text"/>	
32	less Assets commissioned	<input type="text"/>		<input type="text"/>	
33	plus Asset disposals	<input type="text"/>		<input type="text"/>	
34	less Regulatory tax allowance	<input type="text"/>		<input type="text"/>	
35	less Other regulated income	<input type="text"/>		<input type="text"/>	
36	Mid-year net cash outflows	<input type="text"/>		<input type="text"/>	
37					
38	Term credit spread differential allowance			<input type="text"/>	
39					
40	Total closing RAB value	<input type="text"/>			
41	less Adjustment resulting from asset allocation	<input type="text"/>		<input type="text"/>	
42	less Lost and found assets adjustment	<input type="text"/>		<input type="text"/>	
43	Closing RIV	<input type="text"/>		<input type="text"/>	
44					
45	ROI – comparable to a vanilla WACC	<input type="text"/>			<input type="text"/>
46					
47	Leverage (%)				44%
48	Cost of debt assumption (%)				<input type="text"/>
49	Corporate tax rate (%)				<input type="text"/>
50					
51	ROI – comparable to a post tax WACC	<input type="text"/>			<input type="text"/>
52					

Company Name
 For Year Ended

SCHEDULE 2: REPORT ON RETURN ON INVESTMENT (cont)

sch ref

2(iii): Information Supporting the Monthly ROI

54	Opening RIV				
55					
56					
57		(\$000)			
		Line charge revenue	Expenses cash outflow	Assets commissioned	Asset disposals
			Other regulated income		Monthly net cash outflows
58					
59	Month 1				
60	Month 2				
61	Month 3				
62	Month 4				
63	Month 5				
64	Month 6				
65	Month 7				
66	Month 8				
67	Month 9				
68	Month 10				
69	Month 11				
70	Month 12				
71	Total				
72					
73	Regulatory tax allowance				
74					
75	Term credit spread differential allowance				
76					
77	Closing RIV				
78					
79					
80	Monthly ROI – comparable to a vanilla WACC				N/A
81					
82	Monthly ROI – comparable to a post tax WACC				N/A
83					
84	2(iv): Year-end ROI rates for comparison purposes				
85					
86	Year-end ROI – comparable to a vanilla WACC				
87					
88	Year-end ROI – comparable to a post tax WACC				
89					
90					
91	2(v): Estimated Impact of Financial Incentives on ROI				
92					
93	Net recoverable costs allowed under incremental rolling incentive scheme				
94	Financial incentives				
95					
96	ROI – comparable to a vanilla WACC (excluding financial incentives)				
97					
98	Estimated impact of financial incentives on ROI				

* The year-end ROI values are comparable to the ROI reported in pre 2012 disclosures by GTBs and do not represent the Commission's current view on ROI.

Schedule 3 Report on Regulatory Profit

		Company Name <input type="text"/>
		For Year Ended <input type="text"/>
SCHEDULE 3: REPORT ON REGULATORY PROFIT		
<p>This schedule requires information on the calculation of regulatory profit for the GTB for the disclosure year. GTBs must complete all sections and must provide explanatory comment on their regulatory profit in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.</p>		
sch ref		
7	3(i): Regulatory Profit	(\$000)
8	Income	
9	Line charge revenue	<input type="text"/>
10	plus Gains / (losses) on asset disposals	<input type="text"/>
11	plus Other regulated income (other than gains / (losses) on asset disposals)	<input type="text"/>
12		
13	Total regulatory income	<input type="text"/>
14	Expenses	
15	less Operational expenditure	<input type="text"/>
16		
17	less Pass through and recoverable costs recognised in information disclosure	<input type="text"/>
18		
19	Operating surplus / (deficit)	<input type="text"/>
20		
21	less Total depreciation	<input type="text"/>
22		
23	plus Total revaluations	<input type="text"/>
24		
25	Regulatory profit / (loss) before tax	<input type="text"/>
26		
27	less Term credit spread differential allowance	<input type="text"/>
28		
29	less Regulatory tax allowance	<input type="text"/>
30		
31	Regulatory profit / (loss)	<input type="text"/>
32		

Note: sub-total regulatory profit / (loss) before tax removed

		Company Name <input type="text"/>	
		For Year Ended <input type="text"/>	
SCHEDULE 3: REPORT ON REGULATORY PROFIT (cont)			
sch ref			
33	3(ii): Pass through and Recoverable Costs recognised in Information Disclosure		(5000)
34	Pass through costs		
35	Rates		
36	Commerce Act Levies		
37	Industry Levies		
38	CPP specified pass through costs		
39	Recoverable costs recognised in information disclosure		
40	Balancing gas costs		
41	Pass through and recoverable costs recognised in information disclosure		
42			
43	3(iii): Incremental Rolling Incentive Scheme		(5000)
44			
45			
46	Allowed controllable opex		
47	Actual controllable opex		
48			
49	Incremental change in year		
50			
51			
52	CY-5	[year]	Previous years' incremental change adjusted for inflation
53	CY-4	[year]	
54	CY-3	[year]	
55	CY-2	[year]	
56	CY-1	[year]	
57	Net incremental rolling incentive scheme		
58			
59	Net recoverable costs allowed under incremental rolling incentive scheme		
60	3(iv): Merger and Acquisition Costs		
61	Merger and acquisition expenditure		
62	Provide commentary on the benefits of merger and acquisition expenditure to the gas transmission business, including required disclosures in accordance with section 2.7, in Schedule 14 (Mandatory Explanatory Notes)		
63	3(v): Other Disclosures		
64	Self-insurance allowance		

Schedule 4 Report on Value of the Regulatory Asset Base (Rolled Forward)

		Company Name		For Year Ended	
7					
8	4(i): Regulatory Asset Base Roll Forward				
9	Total opening RAB value	RAB	RAB	RAB	RAB
10	less: Total depreciation	(\$000)	(\$000)	(\$000)	(\$000)
11	plus: Total revaluations				
12	plus: Asset commissioned				
13	less: Asset disposal				
14	plus: Lost and found assets adjustment				
15	plus: Adjustment resulting from asset allocation				
16	Total closing RAB value				
17					
18					
19					
20					
21					
22					
23					
24					
25	4(ii): Unallocated Regulatory Asset Base				
26	Total opening RAB value	Unallocated RAB*	Unallocated RAB*	Unallocated RAB*	Unallocated RAB*
27	less: Total depreciation	(\$000)	(\$000)	(\$000)	(\$000)
28	plus: Total revaluations				
29	Assets commissioned (other than below)				
30	Assets acquired from a regulated supplier				
31	Assets acquired from a related party				
32	Assets commissioned				
33	less: Asset disposal (other than below)				
34	Assets disposed to a regulated supplier				
35	Assets disposed to a related party				
36	Assets disposed				
37	plus: Lost and found assets adjustment				
38	plus: Adjustment resulting from asset allocation				
39	Total closing RAB value				
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					

* The unallocated RAB is the total value of those assets used wholly or partially to provide gas transmission services without any allowance being made for the allocation of costs to services provided by the supplier that are not gas transmission services. The RAB value represents the value of these assets after applying this allocation. Neither value includes work under construction.

SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD) (cont)		Company Name For Year Ended	
88	4(v): Regulatory Depreciation	Unallocated RAB * (\$000)	RAB (\$000)
89	Depreciation - standard		
90	Depreciation - non-standard like assets		
91	Depreciation - modified like assets		
92	Depreciation - non-modified like assets		
93	Depreciation - alternative depreciation in accordance with CPP		
94	Total depreciation		
95			
96			
97	4(vi): Disclosure of Changes to Depreciation Profiles	(\$000 unless otherwise specified)	
98	Asset categories with changes to depreciation	Reason for non-standard depreciation (text entry)	Closing RAB value under 'non-standard' depreciation
99			
100			
101			
102			
103			
104			
105			
106			
107			
108	4(vii): Disclosure by Asset Category	(\$000 unless otherwise specified)	
109	Total opening RAB value	Pipes	Stations
110	Less: Total depreciation	Compressors	Other network assets
111	plus: Total revaluations	Main-line valves	Special crossings
112	plus: Assets decommissioned		
113	plus: Loss and found assets adjustment		
114	plus: Adjustment resulting from asset allocation		
115	plus: Asset category transfers		
116	Total closing RAB value		
117	Assets life		
118	Weighted average remaining asset life		
119	Weighted average expected total asset life		
120			
121			
122			

Schedule 5a Report on Regulatory Tax Allowance

Company Name
 For Year Ended

SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit).
 GTBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes).
 This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

7	5a(i): Regulatory Tax Allowance				(5000)
8	Regulatory profit / (loss) before tax				
9					
10	plus Total depreciation				
11	less Tax depreciation				
12	Permanent differences:				
13	plus Income not included in regulatory profit / (loss) before tax but taxable			*	
14	Expenditure or loss in regulatory profit / (loss) before tax but not deductible			*	
15	less Income included in regulatory profit / (loss) before tax but not taxable			*	
16	Expenditure or loss deductible but not in regulatory profit / (loss) before tax			*	
17					
18					
19	Temporary differences:				
20	plus Total Revaluations			*	
21	Other income not included in regulatory profit / (loss) before tax but taxable			*	
22	Expenditure or loss in regulatory profit / (loss) before tax but not deductible			*	
23					
24	less Income included in regulatory profit / (loss) before tax but not taxable			*	
25	Expenditure or loss deductible but not in regulatory profit / (loss) before tax			*	
26					
27	less Notional deductible interest				
28					
29	Regulatory taxable income				
30	less Utilised tax losses				
31	Regulatory net taxable income				
32					
33	Corporate tax rate (%)				
34	Regulatory tax allowance				
35					
36	* Workings to be provided in Schedule 14				
37					
38					
39	5a(ii): Disclosure of Permanent and Temporary Differences				
40	In Schedule 14, Box 5 and Box 6, provide descriptions and workings of items recorded in the asterisked categories in Schedule 5a(i).				
41					
42	5a(iii): Reconciliation of Tax Losses				(5000)
43					
44	Opening tax losses				
45	plus Current period tax losses				
46	less Utilised tax losses				
47	Closing tax losses				
48	5a(iv): Regulatory Tax Asset Base Roll-Forward				(5000)
49					
50	Opening sum of regulatory tax asset values				
51	less Tax depreciation				
52	plus Regulatory tax asset value of assets commissioned				
53	less Regulatory tax asset value of asset disposals				
54	plus Lost and found assets adjustment				
55	plus Adjustment resulting from asset allocation				
56	plus Other adjustments to the RAB tax value				
57	Closing sum of regulatory tax asset values				

Schedule 5b Report on Related Party Transactions

| Company Name <input style="width: 150px;" type="text"/>
For Year Ended <input style="width: 150px;" type="text"/> |

 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
--
--
--
---|--|---|--|---|---------------------|---|---------------------------------|---|----------------------------------|---|-----------------------|----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------------------|--------------------------------|----------------------------|------------------------------|-----------------------------|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------
--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------
--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|--|--------------|--|---|--|
| SCHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS
This schedule provides information on the valuation of related party transactions, in accordance with section 2.3.7 and 2.3.8 of the ID determination.
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. |

 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| sch ref | <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>5b(i): Summary—Related Party Transactions</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Total regulatory income</td> <td style="width: 20%; text-align: center;">(\$000)</td> </tr> <tr> <td>Operational expenditure</td> <td><input style="width: 50px;" type="text"/></td> </tr> <tr> <td>Capital expenditure</td> <td><input style="width: 50px;" type="text"/></td> </tr> <tr> <td>Market value of asset disposals</td> <td><input style="width: 50px;" type="text"/></td> </tr> <tr> <td>Other related party transactions</td> <td><input style="width: 50px;" type="text"/></td> </tr> </table> </div> <div style="width: 35%;"></div> </div> <p>5b(ii): Entities Involved in Related Party Transactions</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%; text-align: center;">Name of related party</th> <th style="width: 40%; text-align: center;">Related party relationship</th> </tr> </thead> <tbody> <tr><td><input style="width: 95%;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> </tbody> </table> <p style="font-size: 8px; color: red;">* include additional rows if needed</p> <p>5b(iii): Related Party Transactions</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Name of related party</th> <th style="width: 10%;">Related party transaction Type</th> <th style="width: 30%;">Description of transaction</th> <th style="width: 10%;">Value of transaction (\$000)</th> <th style="width: 25%;">Basis for determining value</th> </tr> </thead> <tbody> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input
style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width:
95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;"
type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td><input style="width: 95%;" type="text"/></td></tr> <tr><td><input style="width: 95%;" type="text"/></td><td style="text-align: center;">(Select one)</td><td><input style="width: 95%;" type="text"/></td><td><input style="width: 50px;" type="text"/></td><td></td></tr></tbody></table> | Total regulatory income | (\$000) | Operational expenditure | <input style="width: 50px;" type="text"/> | Capital expenditure | <input style="width: 50px;" type="text"/> | Market value of asset disposals | <input style="width: 50px;" type="text"/> | Other related party transactions | <input style="width: 50px;" type="text"/> | Name of related party | Related party relationship | <input style="width: 95%;" type="text"/> | Name of related party | Related party transaction Type | Description of transaction | Value of transaction (\$000) | Basis for determining value | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input
style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/>
 <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/> | (Select one) | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | |
| Total regulatory income | (\$000)

 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| Operational expenditure | <input style="width: 50px;" type="text"/>

 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| Capital expenditure | <input style="width: 50px;" type="text"/>

 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| Market value of asset disposals | <input style="width: 50px;" type="text"/>

 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| Other related party transactions | <input style="width: 50px;" type="text"/>

 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| Name of related party | Related party relationship

 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/>

 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/>

 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/>

 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/>

 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/>

 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/>

 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/>

 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | <input style="width: 95%;" type="text"/>

 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| Name of related party | Related party transaction Type

 | Description of transaction | Value of transaction (\$000) | Basis for determining value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | <input style="width: 95%;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |
| <input style="width: 95%;" type="text"/> | (Select one)

 | <input style="width: 95%;" type="text"/> | <input style="width: 50px;" type="text"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | |

Schedule 5c Report on Term Credit Spread Differential Allowance

Company Name
 For Year Ended

SCHEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE

This schedule is only to be completed if, as at the date of the most recently published financial statements, the weighted average original tenor of the debt portfolio (both qualifying debt and non-qualifying debt) is greater than five years.
 This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

7

8 **5c(i): Qualifying Debt (may be Commission only)**

9

	Issuing party	Issue date	Pricing date	Original tenor (in years)	Coupon rate (%)	Book value at issue date (NZD)	Book value at date of financial statements (NZD)	Term Credit Spread Difference	Cost of executing an interest rate swap	Debt issue cost readjustment
10										
11										
12										
13										
14										
15										
16	* include additional rows if needed						-	-	-	-

17

18 **5c(ii): Attribution of Term Credit Spread Differential**

19

Gross term credit spread differential									
Total book value of interest bearing debt									
Leverage					44%				
Average opening and closing RAB values									
Attribution Rate (%)									
Term credit spread differential allowance									

20

21

22

23

24

25

26

Schedule 5d Report on Cost Allocations

Company Name For Year Ended					
		Value allocated (\$000s)			
		Arm's length deduction	Gas transmission services	Non-gas transmission services	OVABAA allocation increase (\$000s)
		Total			
SCHEDULE 5d: REPORT ON COST ALLOCATIONS					
This schedule provides information on the allocation of operational costs. GTS must provide explanatory comment on their cost allocation in Schedule 4.4 (Mandatory Explanatory Notes), including on the impact of any re-classifications.					
This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.					
7	8				
5d(i): Operating Cost Allocations					
Service interruptions, incidents and emergencies					
Directly attributable					
Not directly attributable					
Total attributable to regulated service					
Routine and corrective maintenance and inspection					
Directly attributable					
Not directly attributable					
Total attributable to regulated service					
Asset replacement and renewal					
Directly attributable					
Not directly attributable					
Total attributable to regulated service					
Compressor fuel					
Directly attributable					
Not directly attributable					
Total attributable to regulated service					
Land management and associated activity					
Directly attributable					
Not directly attributable					
Total attributable to regulated service					
System operations					
Directly attributable					
Not directly attributable					
Total attributable to regulated service					
Network support					
Directly attributable					
Not directly attributable					
Total attributable to regulated service					
Business support					
Directly attributable					
Not directly attributable					
Total attributable to regulated service					
Operating costs directly attributable					
Operating costs not directly attributable					
Operational expenditure					
9	10	11	12	13	14
15	16	17	18	19	20
21	22	23	24	25	26
27	28	29	30	31	32
33	34	35	36	37	38
39	40	41	42	43	44
45					

SCHEDULE 5d: REPORT ON COST ALLOCATIONS (cont)		Company Name For Year Ended
53	5d(i): Other Cost Allocations	
54	Pass through and recoverable costs	
55	Pass through costs	
56	Directly attributable	
57	Not directly attributable	
58	Total attributable to regulated service	
59	Recoverable costs	
60	Directly attributable	
61	Not directly attributable	
62	Total attributable to regulated service	
63		
64	NOTES TO THE REPORT	
65	5d(ii): Changes in Cost Allocations* †	
66		
67	Change in cost allocation 1	
68	Cost category	
69	Original allocator or line items	
70	New allocator or line items	
71		
72	Rationale for change	
73		
74		
75		
76		
77	Change in cost allocation 2	
78	Cost category	
79	Original allocator or line items	
80	New allocator or line items	
81		
82	Rationale for change	
83		
84	Change in cost allocation 3	
85	Cost category	
86	Original allocator or line items	
87	New allocator or line items	
88		
89	Rationale for change	
90		
91		

* a change in cost allocation must be completed for each allocator or component change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or component.

† include additional rows if needed

Schedule 5e Report on Asset Allocations

Company Name For Year Ended	
SCHEDULE 5e: REPORT ON ASSET ALLOCATIONS	
This schedule requires information on the allocation of asset values. This information supports the calculation of the RAB value in Schedule 4. GTS must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any changes in asset allocations. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.6.	
467/467	
7	5e(i): Regulated Service Asset Values
8	Value allocated (\$'000)
9	Gas transmission services
10	
11	Pipes
12	Directly attributable
13	Not directly attributable
14	Total attributable to regulated service
15	Stations
16	Directly attributable
17	Not directly attributable
18	Total attributable to regulated service
19	Compressors
20	Directly attributable
21	Not directly attributable
22	Total attributable to regulated service
23	Main-line valves
24	Directly attributable
25	Not directly attributable
26	Total attributable to regulated service
27	Special crossings
28	Directly attributable
29	Not directly attributable
30	Total attributable to regulated service
31	Other network assets
32	Directly attributable
33	Not directly attributable
34	Total attributable to regulated service
35	Non-network assets
36	Directly attributable
37	Not directly attributable
38	Total attributable to regulated service
39	Regulated service asset value directly attributable
40	Regulated service asset value not directly attributable
41	Total closing RAB value

SCHEDULE 5e: REPORT ON ASSET ALLOCATIONS (cont)		Company Name For Year Ended	
49	5e (i): Changes in Asset Allocations* †		
50	Change in asset value allocation 1	(5000)	Current Year (CY)
51	Asset category		
52	Original allocator or line items		
53	New allocator or line items		
54	Rationale for change		
55			
56			
57			
58			
59	Change in asset value allocation 2		Current Year (CY)
60	Asset category		
61	Original allocator or line items		
62	New allocator or line items		
63	Rationale for change		
64			
65			
66			
67			
68	Change in asset value allocation 3		Current Year (CY)
69	Asset category		
70	Original allocator or line items		
71	New allocator or line items		
72	Rationale for change		
73			
74			
75	* or change in asset allocation must be completed for each allocator or component change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or component. † include additional rows if needed		

Schedule 5f Report Supporting Cost Allocations

Company Name
 For Year Ended

SCHEDULE 5f: REPORT SUPPORTING COST ALLOCATIONS

This schedule requires additional detail on the cost allocation methodology applied in allocating asset values that are not directly attributable, to support the information provided in Schedule 5d (Cost allocations). This schedule is not required to be publicly disclosed, but must be disclosed to the Commission.
 This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref 7

8 Have costs been allocated in aggregate using ACAM in accordance with clause 2.1.1(3) of the IM Determination?

Line Item*	Allocation methodology type	Allocator	Allocator type	Allocator Metric (%)		Value allocated (\$000)			OVABAA allocation increase (\$000)
				Gas transmission services	Non-gas transmission services	Arm's length deduction	Gas transmission services	Non-gas transmission services	
Service interruptions, incidents and emergencies									
<input type="text" value="Insert cost description"/>	e.g. ABAA	Allocator 1	<input type="text" value="[Select one]"/>						-
<input type="text" value="Insert cost description"/>	e.g. ABAA	Allocator 2	<input type="text" value="[Select one]"/>						-
<input type="text" value="Insert cost description"/>	e.g. ABAA	Allocator 3	<input type="text" value="[Select one]"/>						-
<input type="text" value="Insert cost description"/>	e.g. ABAA	Allocator 4	<input type="text" value="[Select one]"/>						-
Not directly attributable									
Routine and corrective maintenance and inspection									
<input type="text" value="Insert cost description"/>	e.g. ABAA	Allocator 1	<input type="text" value="[Select one]"/>						-
<input type="text" value="Insert cost description"/>	e.g. ABAA	Allocator 2	<input type="text" value="[Select one]"/>						-
<input type="text" value="Insert cost description"/>	e.g. ABAA	Allocator 3	<input type="text" value="[Select one]"/>						-
<input type="text" value="Insert cost description"/>	e.g. ABAA	Allocator 4	<input type="text" value="[Select one]"/>						-
Not directly attributable									
Asset replacement and renewal									
<input type="text" value="Insert cost description"/>	e.g. ABAA	Allocator 1	<input type="text" value="[Select one]"/>						-
<input type="text" value="Insert cost description"/>	e.g. ABAA	Allocator 2	<input type="text" value="[Select one]"/>						-
<input type="text" value="Insert cost description"/>	e.g. ABAA	Allocator 3	<input type="text" value="[Select one]"/>						-
<input type="text" value="Insert cost description"/>	e.g. ABAA	Allocator 4	<input type="text" value="[Select one]"/>						-
Not directly attributable									
Compressor fuel									
<input type="text" value="Insert cost description"/>	e.g. ABAA	Allocator 1	<input type="text" value="[Select one]"/>						-
<input type="text" value="Insert cost description"/>	e.g. ABAA	Allocator 2	<input type="text" value="[Select one]"/>						-
<input type="text" value="Insert cost description"/>	e.g. ABAA	Allocator 3	<input type="text" value="[Select one]"/>						-
<input type="text" value="Insert cost description"/>	e.g. ABAA	Allocator 4	<input type="text" value="[Select one]"/>						-
Not directly attributable									
Land management and associated activity									
<input type="text" value="Insert cost description"/>	e.g. ABAA	Allocator 1	<input type="text" value="[Select one]"/>						-
<input type="text" value="Insert cost description"/>	e.g. ABAA	Allocator 2	<input type="text" value="[Select one]"/>						-
<input type="text" value="Insert cost description"/>	e.g. ABAA	Allocator 3	<input type="text" value="[Select one]"/>						-
<input type="text" value="Insert cost description"/>	e.g. ABAA	Allocator 4	<input type="text" value="[Select one]"/>						-
Not directly attributable									

SCHEDULE 5f: REPORT SUPPORTING COST ALLOCATIONS (cont)										Company Name <input type="text"/>		
										For Year Ended <input type="text"/>		
49	System operations											
50	Insert cost description	e.g. ABAA	Allocator 1	[Select one]							-	
51	Insert cost description	e.g. ABAA	Allocator 2	[Select one]							-	
52	Insert cost description	e.g. ABAA	Allocator 3	[Select one]							-	
53	Insert cost description	e.g. ABAA	Allocator 4	[Select one]							-	
54	Not directly attributable										-	-
55	Network support											
56	Insert cost description	e.g. ABAA	Allocator 1	[Select one]							-	
57	Insert cost description	e.g. ABAA	Allocator 2	[Select one]							-	
58	Insert cost description	e.g. ABAA	Allocator 3	[Select one]							-	
59	Insert cost description	e.g. ABAA	Allocator 4	[Select one]							-	
60	Not directly attributable										-	-
61	Business support											
62	Insert cost description	e.g. ABAA	Allocator 1	[Select one]							-	
63	Insert cost description	e.g. ABAA	Allocator 2	[Select one]							-	
64	Insert cost description	e.g. ABAA	Allocator 3	[Select one]							-	
65	Insert cost description	e.g. ABAA	Allocator 4	[Select one]							-	
66	Not directly attributable										-	-
67	Operating costs not directly attributable										-	-
68												
69	Pass through and recoverable costs											
70	Pass through costs											
71	Insert cost description	e.g. ABAA	Allocator 1	[Select one]							-	
72	Insert cost description	e.g. ABAA	Allocator 2	[Select one]							-	
73	Insert cost description	e.g. ABAA	Allocator 3	[Select one]							-	
74	Insert cost description	e.g. ABAA	Allocator 4	[Select one]							-	
75	Not directly attributable										-	-
76	Recoverable costs											
77	Insert cost description	e.g. ABAA	Allocator 1	[Select one]							-	
78	Insert cost description	e.g. ABAA	Allocator 2	[Select one]							-	
79	Insert cost description	e.g. ABAA	Allocator 3	[Select one]							-	
80	Insert cost description	e.g. ABAA	Allocator 4	[Select one]							-	
81	Not directly attributable										-	-
* include additional rows if needed												

Schedule 5g Report Supporting Asset Allocations

Company Name
 For Year Ended

SCHEDULE 5g: REPORT SUPPORTING ASSET ALLOCATIONS

This schedule requires additional detail on the asset allocation methodology applied in allocating asset values that are not directly attributable, to support the information provided in Schedule 5e (Report on Asset Allocations). This schedule is not required to be publicly disclosed, but must be disclosed to the Commission. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

6 Have assets been allocated in aggregate using ACAM in accordance with clause 2.1.1(3) of the IM Determination?

Line Item*	Allocation methodology type	Allocator	Allocator type	Allocator Metric (%)		Value allocated (\$000)			OVABAA allocation increase (\$000)
				Gas transmission services	Non-gas transmission services	Arm's length deduction	Gas transmission services	Non-gas transmission services	
Pipes									
Insert asset description	e.g. ABAA	Allocator 1	[Select one]						-
Insert asset description	e.g. ABAA	Allocator 2	[Select one]						-
Insert asset description	e.g. ABAA	Allocator 3	[Select one]						-
Insert asset description	e.g. ABAA	Allocator 4	[Select one]						-
Not directly attributable						-	-	-	-
Stations									
Insert asset description	e.g. ABAA	Allocator 1	[Select one]						-
Insert asset description	e.g. ABAA	Allocator 2	[Select one]						-
Insert asset description	e.g. ABAA	Allocator 3	[Select one]						-
Insert asset description	e.g. ABAA	Allocator 4	[Select one]						-
Not directly attributable						-	-	-	-
Compressors									
Insert asset description	e.g. ABAA	Allocator 1	[Select one]						-
Insert asset description	e.g. ABAA	Allocator 2	[Select one]						-
Insert asset description	e.g. ABAA	Allocator 3	[Select one]						-
Insert asset description	e.g. ABAA	Allocator 4	[Select one]						-
Not directly attributable						-	-	-	-

SCHEDULE 5g: REPORT SUPPORTING ASSET ALLOCATIONS (cont)										
Company Name <input type="text"/>										
For Year Ended <input type="text"/>										
sch ref										
35	Main-line valves									
36	Insert asset description	e.g. ABAA	Allocator 1	[Select one]					-	
37	Insert asset description	e.g. ABAA	Allocator 2	[Select one]					-	
38	Insert asset description	e.g. ABAA	Allocator 3	[Select one]					-	
39	Insert asset description	e.g. ABAA	Allocator 4	[Select one]					-	
40	Not directly attributable								-	-
41	Special crossings									
42	Insert asset description	e.g. ABAA	Allocator 1	[Select one]					-	
43	Insert asset description	e.g. ABAA	Allocator 2	[Select one]					-	
44	Insert asset description	e.g. ABAA	Allocator 3	[Select one]					-	
45	Insert asset description	e.g. ABAA	Allocator 4	[Select one]					-	
46	Not directly attributable								-	-
47	Other network assets									
48	Insert asset description	e.g. ABAA	Allocator 1	[Select one]					-	
49	Insert asset description	e.g. ABAA	Allocator 2	[Select one]					-	
50	Insert asset description	e.g. ABAA	Allocator 3	[Select one]					-	
51	Insert asset description	e.g. ABAA	Allocator 4	[Select one]					-	
52	Not directly attributable								-	-
53	Non-network assets									
54	Insert asset description	e.g. ABAA	Allocator 1	[Select one]					-	
55	Insert asset description	e.g. ABAA	Allocator 2	[Select one]					-	
56	Insert asset description	e.g. ABAA	Allocator 3	[Select one]					-	
57	Insert asset description	e.g. ABAA	Allocator 4	[Select one]					-	
58	Not directly attributable								-	-
59	Regulated service asset value not directly attributable								-	-
60	* include additional rows if needed									

Schedule 5h—Report on Transitional Financial Information

Schedule 6a Report on Capital Expenditure for the Disclosure Year

Company Name

For Year Ended

SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs. GTBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory notes to templates). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref		(\$000)	(\$000)
7	6a(i): Expenditure on Assets		
8	Consumer connection		-
9	System growth		-
10	Asset replacement and renewal		-
11	Asset relocations		-
12	Reliability, safety and environment:		
13	Quality of supply	-	-
14	Legislative and regulatory	-	-
15	Other reliability, safety and environment	-	-
16	Total reliability, safety and environment		-
17	Expenditure on network assets		-
18	Expenditure on non-network assets		-
19			
20	Expenditure on assets		-
21	<i>plus</i> Cost of financing		-
22	<i>less</i> Value of capital contributions		-
23	<i>plus</i> Value of vested assets		-
24			
25	Capital expenditure		-
26	6a(ii): Subcomponents of Expenditure on Assets(where known)		
27	Research and development		-
28	6a(iii): Consumer Connection		
29	<i>Consumer types defined by GTB*</i>	(\$000)	(\$000)
30	<input type="text" value="[GTB consumer type]"/>	-	-
31	<input type="text" value="[GTB consumer type]"/>	-	-
32	<input type="text" value="[GTB consumer type]"/>	-	-
33	<input type="text" value="[GTB consumer type]"/>	-	-
34	<input type="text" value="[GTB consumer type]"/>	-	-
35	<i>* include additional rows if needed</i>		
36	Consumer connection expenditure		-
37			
38	<i>less</i> Capital contributions funding consumer connection expenditure	-	-
39	Consumer connection less capital contributions		-

		Company Name <input type="text"/>	
		For Year Ended <input type="text"/>	
SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR (cont)			
sch ref			
40	6a(iv): System Growth and Asset Replacement and Renewal		
41		System Growth	Asset Replacement
42		(\$000)	and Renewal
43	Pipes	<input type="text"/>	<input type="text"/>
44	Compressor stations	<input type="text"/>	<input type="text"/>
45	Other stations	<input type="text"/>	<input type="text"/>
46	SCADA and communications	<input type="text"/>	<input type="text"/>
47	Special crossings	<input type="text"/>	<input type="text"/>
48	<i>Components of stations (where known)</i>		
49	Main-line valves	<input type="text"/>	<input type="text"/>
50	Heating system	<input type="text"/>	<input type="text"/>
51	Odourisation plants	<input type="text"/>	<input type="text"/>
52	Coalescers	<input type="text"/>	<input type="text"/>
53	Metering system	<input type="text"/>	<input type="text"/>
54	Cathodic protection	<input type="text"/>	<input type="text"/>
55	Chromatographs	<input type="text"/>	<input type="text"/>
56	System growth and asset replacement and renewal expenditure	-	-
57	<i>less</i> Capital contributions funding system growth and asset replacement and renewal	<input type="text"/>	<input type="text"/>
58	System growth and asset replacement and renewal less capital contributions	-	-
59			
67	6a(v): Asset Relocations		
68	<i>Project or programme*</i>	(\$000)	(\$000)
69	<input type="text"/>	<input type="text"/>	<input type="text"/>
70	<input type="text"/>	<input type="text"/>	<input type="text"/>
71	<input type="text"/>	<input type="text"/>	<input type="text"/>
72	<input type="text"/>	<input type="text"/>	<input type="text"/>
73	<input type="text"/>	<input type="text"/>	<input type="text"/>
74	<i>* include additional rows if needed</i>		
75	All other projects or programmes - asset relocations	<input type="text"/>	<input type="text"/>
76	Asset relocations expenditure	-	-
77	<i>less</i> Capital contributions funding asset relocations	<input type="text"/>	<input type="text"/>
78	Asset relocations less capital contributions	-	-
79	6a(vi): Quality of Supply	(\$000)	(\$000)
80	<i>Project or programme*</i>		
81	<input type="text"/>	<input type="text"/>	<input type="text"/>
82	<input type="text"/>	<input type="text"/>	<input type="text"/>
83	<input type="text"/>	<input type="text"/>	<input type="text"/>
84	<input type="text"/>	<input type="text"/>	<input type="text"/>
85	<input type="text"/>	<input type="text"/>	<input type="text"/>
86	<i>* include additional rows if needed</i>		
87	All other projects or programmes - quality of supply	<input type="text"/>	<input type="text"/>
88	Quality of supply expenditure	-	-
89	<i>less</i> Capital contributions funding quality of supply	<input type="text"/>	<input type="text"/>
90	Quality of supply less capital contributions	-	-

Company Name
 For Year Ended

SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR (cont)

sch.ref

91	6a(vii): Legislative and Regulatory		
92	<i>Project or programme*</i>	(\$000)	(\$000)
93	(Description of material project or programme)		
94	(Description of material project or programme)		
95	(Description of material project or programme)		
96	(Description of material project or programme)		
97	(Description of material project or programme)		
98	<i>* include additional rows if needed</i>		
99	All other projects or programmes - legislative and regulatory		
100	Legislative and regulatory expenditure		
101	less Capital contributions funding legislative and regulatory		
102	Legislative and regulatory less capital contributions		
110	6a(viii): Other Reliability, Safety and Environment		
111	<i>Project or programme*</i>	(\$000)	(\$000)
112	(Description of material project or programme)		
113	(Description of material project or programme)		
114	(Description of material project or programme)		
115	(Description of material project or programme)		
116	(Description of material project or programme)		
117	<i>* include additional rows if needed</i>		
118	All other projects or programmes - other reliability, safety and environment		
119	Other reliability, safety and environment expenditure		
120	less Capital contributions funding other reliability, safety and environment		
121	Other reliability, safety and environment less capital contributions		
122			
123	6a(ix): Non-Network Assets		
124	Routine expenditure		
125	<i>Project or programme*</i>	(\$000)	(\$000)
126	(Description of material project or programme)		
127	(Description of material project or programme)		
128	(Description of material project or programme)		
129	(Description of material project or programme)		
130	(Description of material project or programme)		
131	<i>* include additional rows if needed</i>		
132	All other projects or programmes - routine expenditure		
133	Routine expenditure		
134	Atypical expenditure		
135	<i>Project or programme*</i>	(\$000)	(\$000)
136	(Description of material project or programme)		
137	(Description of material project or programme)		
138	(Description of material project or programme)		
139	(Description of material project or programme)		
140	(Description of material project or programme)		
141	<i>* include additional rows if needed</i>		
142	All other projects or programmes - atypical expenditure		
143	Atypical expenditure		
144			
145	Expenditure on non-network assets		

Schedule 6b Report on Operational Expenditure for the Disclosure Year

Company Name
 For Year Ended

SCHEDULE 6b: REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of operational expenditure incurred in the disclosure year. GTBs must provide explanatory comment on their operational expenditure in Schedule 14 (Explanatory notes to templates). This includes explanatory comment on any atypical operational expenditure and assets replaced or renewed as part of asset replacement and renewal operational expenditure, and additional information on insurance.

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

		(\$000)	(\$000)
7	6b(i): Operational Expenditure		
8	Service interruptions, incidents and emergencies	<input type="text"/>	
9	Routine and corrective maintenance and inspection	<input type="text"/>	
10	Asset replacement and renewal	<input type="text"/>	
11	Compressor fuel	<input type="text"/>	
12	Land management and associated activity	<input type="text"/>	
13	Network opex		-
14	System operations	<input type="text"/>	
15	Network support	<input type="text"/>	
16	Business support	<input type="text"/>	
17	Non-network opex		-
18			
19	Operational expenditure		-
20	6b(ii): Subcomponents of Operational Expenditure (where known)		
21	Research and development		<input type="text"/>
22	Insurance		<input type="text"/>

Schedule 7 Comparison of Forecasts to Actual Expenditure

		Company Name <input type="text"/>		
		For Year Ended <input type="text"/>		
SCHEDULE 7: COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE				
This schedule compares actual revenue and expenditure to the previous forecasts that were made for the disclosure year. Accordingly, this schedule requires the forecast revenue and expenditure information from previous disclosures to be inserted.				
GTBs must provide explanatory comment on the variance between actual and target revenue and forecast expenditure in Schedule 14 (Mandatory Explanatory Notes). This information is part of the audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. For the purpose of this audit, target revenue and forecast expenditures only need to be verified back to previous disclosures.				
<i>sch ref</i>				
8	7(i): Revenue	Target (\$000) ¹	Actual (\$000)	% variance
9	Line charge revenue	<input type="text"/>	<input type="text"/>	<input type="text"/>
10	7(ii): Expenditure on Assets	Forecast (\$000) ²	Actual (\$000)	% variance
11	Consumer connection	<input type="text"/>	<input type="text"/>	<input type="text"/>
12	System growth	<input type="text"/>	<input type="text"/>	<input type="text"/>
13	Asset replacement and renewal	<input type="text"/>	<input type="text"/>	<input type="text"/>
14	Asset relocations	<input type="text"/>	<input type="text"/>	<input type="text"/>
15	Reliability, safety and environment:			
16	Quality of supply	<input type="text"/>	<input type="text"/>	<input type="text"/>
17	Legislative and regulatory	<input type="text"/>	<input type="text"/>	<input type="text"/>
18	Other reliability, safety and environment	<input type="text"/>	<input type="text"/>	<input type="text"/>
19	Total reliability, safety and environment	<input type="text"/>	<input type="text"/>	<input type="text"/>
20	Expenditure on network assets	<input type="text"/>	<input type="text"/>	<input type="text"/>
21	Expenditure on non-network assets	<input type="text"/>	<input type="text"/>	<input type="text"/>
22	Expenditure on assets	<input type="text"/>	<input type="text"/>	<input type="text"/>
23	7(iii): Operational Expenditure			
24	Service interruptions, incidents and emergencies	<input type="text"/>	<input type="text"/>	<input type="text"/>
25	Routine and corrective maintenance and inspection	<input type="text"/>	<input type="text"/>	<input type="text"/>
26	Asset replacement and renewal	<input type="text"/>	<input type="text"/>	<input type="text"/>
27	Compressor fuel	<input type="text"/>	<input type="text"/>	<input type="text"/>
28	Land management and associated activity	<input type="text"/>	<input type="text"/>	<input type="text"/>
29	Network opex	<input type="text"/>	<input type="text"/>	<input type="text"/>
30	System operations	<input type="text"/>	<input type="text"/>	<input type="text"/>
31	Network support	<input type="text"/>	<input type="text"/>	<input type="text"/>
32	Business support	<input type="text"/>	<input type="text"/>	<input type="text"/>
33	Non-network opex	<input type="text"/>	<input type="text"/>	<input type="text"/>
34	Operational expenditure	<input type="text"/>	<input type="text"/>	<input type="text"/>
35				
36	7(iv): Subcomponents of Expenditure on Assets (where known)			
37	Research and development	<input type="text"/>	<input type="text"/>	<input type="text"/>
38				
39	7(v): Subcomponents of Operational Expenditure (where known)			
40	Research and development	<input type="text"/>	<input type="text"/>	<input type="text"/>
41	Insurance	<input type="text"/>	<input type="text"/>	<input type="text"/>
42				
43	¹ From the nominal dollar target revenue for the pricing year disclosed under clause 2.4.3(3) of this determination			
44	² From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2.6.5 for the forecast period starting at the beginning of the disclosure year (the second to last disclosure of Schedules 11a and 11b)			

Schedule 9a Asset Register

				Company Name <input type="text"/>			
				For Year Ended <input type="text"/>			
SCHEDULE 9a: ASSET REGISTER							
This schedule requires a summary of the quantity of assets that make up the network, by asset category and asset							
<i>ref</i>							
	Asset category	Asset class	Units	Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1-4)
7	Pipes	Protected steel pipes	km			-	[Select one]
8	Pipes	Special crossings	km			-	[Select one]
9	Stations	Compressor stations	No.			-	[Select one]
10	Stations	Offtake point	No.			-	[Select one]
11	Stations	Scraper stations	No.			-	[Select one]
12	Stations	Intake points	No.			-	[Select one]
13	Stations	Metering stations	No.			-	[Select one]
14	Compressors	Compressors—turbine driven	No.			-	[Select one]
15	Compressors	Compressors—electric motor driven	No.			-	[Select one]
16	Compressors	Compressors—reciprocating engine drive	No.			-	[Select one]
17	Main-line valves	Main line valves manually operated	No.			-	[Select one]
18	Main-line valves	Main line valves remotely operated	No.			-	[Select one]
19	Heating systems	Gas-fired heaters	No.			-	[Select one]
20	Heating systems	Electric heaters	No.			-	[Select one]
21	Odourisation plants	Odourisation plants	No.			-	[Select one]
22	Coalescers	Coalescers	No.			-	[Select one]
23	Metering systems	Meters—ultrasonic	No.			-	[Select one]
24	Metering systems	Meters—rotary	No.			-	[Select one]
25	Metering systems	Meters turbine	No.			-	[Select one]
26	Metering systems	Meters—mass flow	No.			-	[Select one]
27	SCADA and communications	Remote terminal units (RTU)	No.			-	[Select one]
28	SCADA and communications	Communications terminals	No.			-	[Select one]
29	Cathodic protection	Rectifier units	No.			-	[Select one]
30	Chromatographs	Chromatographs	No.			-	[Select one]
31							

Schedule 9c Report on Pipeline Data

Company Name For Year Ended									
SCHEDULE 9c: REPORT ON PIPELINE DATA This schedule requires a summary of the key characteristics of the pipeline network.									
7	8	9	10	11	12	13	14	15	16
Transmission system per pipeline segment	System length (km) (at year end)	Weighted average pipe diameter (mm)	ADAP	Max monthly quantity entering the system (T per month)	Max weekly quantity entering the system (T per week)	Total gas conveyed (T per year)	Gas conveyed for persons not involved in the GTP (T per year)	Number of offsite points	
The transmission system 1									
The transmission system 2									
The transmission system 3									
The transmission system 4									
The transmission system 5									
Total									
Length by assigned location class (km)									
Secondary location class									
Common Infrastructure Corridor (CIC)									
Heavy Industrial (HI)									
Industrial (I)									
Sensitive Use (S)									
Total (km) (at year end)									
Percentage of total									
Primary location class Rural (R1) land									
Primary location class Rural Residential (R2) land									
Primary location class Urban (U) land									
Primary location class High Density (T2) land									
* The total km is not the same as the sum of the secondary location classes as a pipeline section may only have a primary location class.									

Schedule 9d Report on Demand

Company Name For Year Ended	
SCHEDULE 9d- REPORT ON DEMAND <small>This schedule requires a summary of this key measures of network demand for the disclosure year (number of new connections including maximum monthly loads and total gas conveyed)</small>	
7	9d(i): New Connections
8	Connection types defined by GTR
9	GTR connection type 1 GTR connection type 2 GTR connection type 3 GTR connection type 4 GTR connection type 5 GTR connection type 6 * include additional rows if needed
10	Number of new connections
11	Connections total
12	* include additional rows if needed
13	Connections total
14	* include additional rows if needed
15	Connections total
16	* include additional rows if needed
17	9d(ii): Gas Volumes and Connections
18	Connection types defined by GTR
19	GTR connection type 1 GTR connection type 2 GTR connection type 3 GTR connection type 4 GTR connection type 5 GTR connection type 6 * include additional rows if needed
20	Quantity of gas delivered (T)
21	Gas entering the network (T)
22	Number of connection points
23	* include additional rows if needed
24	Total
25	* include additional rows if needed
26	9d(iii): Gas conveyed
27	Gas entering the network (T)
28	Quantity of gas delivered (T)
29	Gas used in compressor stations (T)
30	Gas used in heating systems (T)
31	Change in Line Pack (T)
32	Unaccounted for gas (T)
33	Total gas conveyed (T)
34	* include additional rows if needed
35	9d(iv): Unaccounted for Gas
36	Gas entering the system (T)
37	Unaccounted for gas (T)
38	Gas entering the system from other system owned by GTR (T)
39	Gas entering the system from other system received from GTR (T)
40	* include additional rows if needed
41	Total
42	* include additional rows if needed

Schedule 10a Report on Network Reliability and Interruptions

Company Name <input style="width: 150px;" type="text"/>																																																																									
For Year Ended <input style="width: 150px;" type="text"/>																																																																									
SCHEDULE 10a: REPORT ON NETWORK RELIABILITY AND INTERRUPTIONS																																																																									
This schedule requires a summary of the key measures of network reliability (interruptions, compressor availability) for the disclosure year. GTBs must provide explanatory comment on their network reliability for the disclosure year in Schedule 14 (Explanatory Notes to Templates).																																																																									
sch ref																																																																									
7	10a(i): Interruptions and Reliability																																																																								
8																																																																									
9	Total number of planned interruptions <input style="width: 100px;" type="text"/>																																																																								
10	Service incidents and emergencies																																																																								
11	Number of incidents <input style="width: 100px;" type="text"/>																																																																								
12																																																																									
13	Unplanned interruptions in transmission systems																																																																								
14																																																																									
15	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Description and cause of Interruption</th> <th style="width: 20%;">Transmission systems affected</th> <th style="width: 10%;">Date</th> <th style="width: 20%;">Duration (hrs)</th> </tr> </thead> <tbody> <tr><td>[Description of interruption]</td><td></td><td></td><td></td></tr> </tbody> </table>	Description and cause of Interruption	Transmission systems affected	Date	Duration (hrs)	[Description of interruption]				[Description of interruption]				[Description of interruption]				[Description of interruption]				[Description of interruption]				[Description of interruption]				[Description of interruption]				[Description of interruption]																																							
Description and cause of Interruption	Transmission systems affected	Date	Duration (hrs)																																																																						
[Description of interruption]																																																																									
[Description of interruption]																																																																									
[Description of interruption]																																																																									
[Description of interruption]																																																																									
[Description of interruption]																																																																									
[Description of interruption]																																																																									
[Description of interruption]																																																																									
[Description of interruption]																																																																									
16																																																																									
17																																																																									
18																																																																									
19																																																																									
20																																																																									
21																																																																									
22																																																																									
23	<i>*Add rows as necessary</i>																																																																								
24	Number of interruption or curtailment events:																																																																								
25	due to insufficient capacity <input style="width: 50px;" type="text"/>																																																																								
26	due to consumer flows exceeding approved quantities <input style="width: 50px;" type="text"/>																																																																								
27	caused by equipment failure <input style="width: 50px;" type="text"/>																																																																								
28	caused by third parties <input style="width: 50px;" type="text"/>																																																																								
29	Total <input style="width: 50px;" type="text"/>																																																																								
30	10a(ii): Compressor Availability																																																																								
31																																																																									
32	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Compressor station code/name</th> <th style="width: 10%;">Compressor unit ID</th> <th style="width: 15%;">Number of hours the compressor ran</th> <th style="width: 15%;">Number of hours compressor was available for service</th> <th style="width: 15%;">Number of instances where the compressor failed to start</th> <th style="width: 15%;">Number of instances where a compressor was required but unavailable for service</th> </tr> </thead> <tbody> <tr><td>[Compressor station name]</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Compressor station code/name	Compressor unit ID	Number of hours the compressor ran	Number of hours compressor was available for service	Number of instances where the compressor failed to start	Number of instances where a compressor was required but unavailable for service	[Compressor station name]						[Compressor station name]						[Compressor station name]						[Compressor station name]						[Compressor station name]						[Compressor station name]						[Compressor station name]						[Compressor station name]						[Compressor station name]						[Compressor station name]						[Compressor station name]					
Compressor station code/name	Compressor unit ID	Number of hours the compressor ran	Number of hours compressor was available for service	Number of instances where the compressor failed to start	Number of instances where a compressor was required but unavailable for service																																																																				
[Compressor station name]																																																																									
[Compressor station name]																																																																									
[Compressor station name]																																																																									
[Compressor station name]																																																																									
[Compressor station name]																																																																									
[Compressor station name]																																																																									
[Compressor station name]																																																																									
[Compressor station name]																																																																									
[Compressor station name]																																																																									
[Compressor station name]																																																																									
[Compressor station name]																																																																									
33																																																																									
34																																																																									
35																																																																									
36																																																																									
37																																																																									
38																																																																									
39																																																																									
40																																																																									
41																																																																									
42																																																																									
43																																																																									
44	<i>*Add rows as necessary</i>																																																																								

Schedule 10b Report on Network Integrity

Company Name For Year Ended	
SCHEDULE 10b: REPORT ON NETWORK INTEGRITY This schedule requires a summary of the key measures of network integrity (product control, gas escapes, RTEs) for the disclosure year.	
7	Product control
8	Number of incidents relating to pressure
9	Number of incidents relating to gas specification
10	Number of incidents relating to odourisation
11	
12	Response time to emergencies (RTE)
13	Proportion of emergencies responded to within 3 hours (%)
14	Average call response time (hours)
15	Number of emergencies
16	
17	Gas leaks
18	Number of confirmed public reported gas escapes per system length (escapes/1,000 km)
19	Number of confirmed gas leaks caused by a third party per system length (escapes/2000 km)
20	Number of gas leaks detected by the GTR
21	Number of gas leaks that did not result in disruption to supply

Schedule 11a Report on Forecast Capital Expenditure

		Company Name AMP Planning Period										
		Current Year	CV+1	CV+2	CV+3	CV+4	CV+5	CV+6	CV+7	CV+8	CV+9	CV+10
7	11a(i): REPORT ON FORECAST CAPITAL EXPENDITURE											
8	This schedule requires a breakdown of forecast expenditure on assets for the current disclosure year and a 10 year planning period. The forecasts should be consistent with the supporting information set out in the AMP. The forecast is to be expressed in both constant price and nominal dollar terms. Also required is a forecast of the value of commissioned assets (i.e. the value of new additions) in constant price and nominal dollar forecasts of expenditure on assets in Schedule 1a. (Mandatory Explanatory Notes)											
9	This information is not part of a filed disclosure information.											
10	\$100 (nominal dollar)											
11	11a(i): Expenditure on Assets Forecast											
12	Consumer connection											
13	System growth											
14	Asset replacement and renewal											
15	Asset relocations											
16	Reliability, safety and environment:											
17	Quality of supply											
18	Legislative and regulatory											
19	Other Reliability, Safety and Environment											
20	Total reliability, safety and environment											
21	Expenditure on network assets											
22	Expenditure on non-network assets											
23	plus:											
24	Costs of financing											
25	less: Value of capital contributions											
26	plus: Value of vested assets											
27	Capital expenditure forecast											
28	Assets commissioned											
29												
30												
31												
32												
33												
34	Consumer connection											
35	System growth											
36	Asset replacement and renewal											
37	Asset relocations											
38	Reliability, safety and environment:											
39	Quality of supply											
40	Legislative and regulatory											
41	Other Reliability, Safety and Environment											
42	Total reliability, safety and environment											
43	Expenditure on network assets											
44	Expenditure on non-network assets											
45	Expenditure on assets											
46	Research and development											
47												
48												
49												
50												
51												
52												
53												
54												
55												
56												
57												
58												
59												
60												
61												
62												
63												
64												
65												
66												
67												
68												

		Company Name					AMP Planning Period						
		Current Year	CV1	CV2	CV3	CV4	CV5	Current Year	CV1	CV2	CV3	CV4	CV5
		5000 (in constant prices)											
74	11a(ii): Consumer Connection												
75	Consumer types defined by IIR*												
76	Low consumer type												
77	Mid consumer type												
78	High consumer type												
79	Very high consumer type												
80	Other consumer type												
81	Private additional rows if needed												
82	Capital contributions funding consumer connection												
83	Consumer connection less capital contributions												
84													
85	11a(iii): System Growth												
86	Zone substations												
87	Distribution and LV lines												
88	Distribution and LV cables												
89	Distribution substations and transformers												
90	Other network assets												
91	Other network assets												
92	System growth expenditure												
93	Capital contributions funding system growth												
94	System growth less capital contributions												
95													
103													
104													
105	11a(iv): Asset Replacement and Renewal												
106	Substations												
107	Zone substations												
108	Distribution and LV lines												
109	Other network assets												
110	Distribution substations and transformers												
111	Distribution switchgear												
112	Other network assets												
113	Asset replacement and renewal expenditure												
114	Capital contributions funding asset replacement and renewal												
115	Asset replacement and renewal less capital contributions												
116													
117	11a(v): Asset Relocations												
118	Description of material project or programme												
119	Description of material project or programme												
120	Description of material project or programme												
121	Description of material project or programme												
122	Description of material project or programme												
123	Private additional rows if needed												
124	Asset relocation expenditure												
125	Capital contributions funding asset relocations												
126	Asset relocations less capital contributions												
127													
128													
129	11a(vi): Quality of Supply												
130	Description of material project or programme												
131	Description of material project or programme												
132	Description of material project or programme												
133	Description of material project or programme												
134	Description of material project or programme												
135	Description of material project or programme												
136	Private additional rows if needed												
137	Quality of supply expenditure												
138	Capital contributions funding quality of supply												
139	Quality of supply less capital contributions												
140													

		Company Name AMP Planning Period					
		Current Year	CH1	CH2	CH3	CH4	CH5
SCHEDULE 11a: REPORT ON FORECAST CAPITAL EXPENDITURE (cont)							
141	11a(vii): Legislative and Regulatory						
142	Project/programme*						
143	Description of material project or programme						
144	Description of material project or programme						
145	Description of material project or programme						
146	Description of material project or programme						
147	Description of material project or programme						
148	Description of material project or programme						
149	"Is/are additional new / needed"						
150	At/In the project/s or programme - legislative and regulatory						
151	Legislative and regulatory expenditure						
152	Capital contributions funding legislative and regulatory						
153	Legislative and regulatory as capital contributions						
161							
162							
163	11a(viii): Other Reliability, Safety and Environment						
164	Project/programme*						
165	Description of material project or programme						
166	Description of material project or programme						
167	Description of material project or programme						
168	Description of material project or programme						
169	Description of material project or programme						
170	"Is/are additional new / needed"						
171	At/In the project/s or programme - other reliability, safety and environment						
172	Other reliability, safety and environment expenditure						
173	Capital contributions funding other reliability, safety and environment						
174	Other reliability, safety and environment less capital contributions						
175							
176							
177							
178	11a(ix): Non-Network Assets						
179	Route expenditure						
180	Project/programme*						
181	Description of material project or programme						
182	Description of material project or programme						
183	Description of material project or programme						
184	Description of material project or programme						
185	Description of material project or programme						
186	"Is/are additional new / needed"						
187	At/In the project/s or programme - route expenditure						
188	Route expenditure						
189	Atypical expenditure						
190	Project/programme*						
191	Description of material project or programme						
192	Description of material project or programme						
193	Description of material project or programme						
194	Description of material project or programme						
195	Description of material project or programme						
196	"Is/are additional new / needed"						
197	At/In the project/s or programme - atypical expenditure						
198	Atypical expenditure						
199	Expenditure on non-network assets						
200							

Schedule 12b Report on Forecast Demand

		Company Name		AMP Planning Period			
SCHEDULE 12b: REPORT ON FORECAST DEMAND							
This Schedule requires a forecast of new connections (by consumer type) and gas delivered for the current disclosure year, and a 5 year planning period. The forecasts should be consistent with the supporting information set out in the AMP and the assumptions used in developing the capital expenditure forecast in Schedule 51.1a (and 11b)							
sch. ref		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
7	12b(i): Connections						
8							
9							
10	Connection types defined by GTB						
11	GTB connection type						
12	GTB connection type						
13	GTB connection type						
14	GTB connection type						
15	GTB connection type						
16	* include additional rows if needed						
17	Connections total						
18							
19							
20							
21							
22							
23	12b(ii): Gas conveyed						
24	Gas entering the network (T)						
25	Quantity of gas delivered (T)						
26	Gas used in compressor stations (T)						
27	Gas used in heating systems (T)						
28	Change in Line Pack (T)						
29	Unaccounted for gas (T)						
30	Total gas conveyed (T)						

Schedule 13 Report on Asset Management Maturity

1. When required to complete the Report on Asset Management Maturity under clause 2.6.1, eEach GTB must-

Formatted: Font: Not Bold

1.1.1 ~~complete the AMMAT Report. The GTB must~~ ensure that the person responsible for managing network assets (or a similar level individual) in the organisation takes responsibility for completing and maintaining this report ~~AMMAT~~, including-

Formatted: Font: Not Bold

Formatted

1.1.1.1 Organising people within the organisation to answer the questions;

Formatted

1.21.1.2 Arranging for all information to be captured in the Report on Asset Management Maturity within the AMMAT;

1.31.1.3 Reporting to the organisation on the results of the assessment;

1.41.1.4 Planning the assessment process, including-

1.4.1(a) Determining the form the assessment process is to take. In this context, the principal formats are generally taken to be interviews, facilitated groups/panels or a combination of the two;

Formatted

1.4.2(b) Arranging for appropriate outsourced service providers and stakeholders to act as respondents during the assessment exercise;

1.4.3(c) Providing appropriate pre-assessment communication (and training where appropriate) to ensure that, as a minimum, the proposed respondents are aware of the AMMAT process and the part within it that they are being asked to play;

1.4.4(d) Identifying which questions are to be asked of which respondents.

2.1.2 ~~Each GTB must~~ specify in the ~~AMMAT~~ Report on Asset Management Maturity the standard of asset management practice that the GTB has used as the reference standard.

Formatted

Formatted: Font: Not Bold

Formatted: Font: Not Bold

3.1.3 ~~fill out the~~Cells in the following columns in the AMMAT Report on Asset Management Maturity set out below ~~must be filled out~~

3.1.3.1 'User guidance': guidance (if required) on completing each question of the report~~AMMAT~~.

Formatted

This column can be used by the person responsible for completing and maintaining the reportAMMAT to provide guidance to the persons coordinating responses to each question.

Formatted: Indent: Left: 3.75 cm

3.31.3.2 'Evidence—Summary': the information/evidence used to support the assessed rating.

Formatted

The cells in this column should be completed by persons coordinating responses to each question.

Formatted: Indent: Left: 3.75 cm

3.31.3.3 'Score': the appropriate maturity rating (this must be a whole number between 0 and 4).

Formatted

To meet Report on Asset Management MaturityAMMAT level 4 maturity, the GTB's processes must surpass the standards that must be complied with in an internationally accepted asset management specification. The Report on Asset Management MaturityAMMAT questionnaire has been prepared to conform to the PAS 55 specification. However, a similar specification, if available, may be used for the purpose of disclosure.

Formatted: Indent: Left: 3.75 cm

Formatted: Font: Not Bold

2. When disclosing the Report on Asset Management Maturity in the AMP, a GTB must include at least the following columns-

2.1 'Question No';

2.2 'Function';

2.3 'Question';

2.4 'Score';

2.5 'Evidence—Summary';

2.6 'Why';

2.7 'Who';

2.8 'Record/documented Information'; and

2.9 a maturity level column which includes, for each row, the corresponding definition of the maturity level 'score' selected for each 'question'.

—Guidance notes on completing the Report on Asset Management Maturity

3.

3.4

3.5 — Part of the value of a formal asset management system is the definition and standardisation of terms. A common understanding of terms helps interested persons to understand the asset management concepts and processes that apply to the GTB. In particular, it helps the GTB's employees and suppliers to understand and improve asset management concepts and processes.

Formatted: Font: Italic

Formatted: Font: Not Bold, Italic

Formatted: Font: Italic

Formatted: Font: Not Bold, Italic

Formatted: Font: Italic

3.1

3.6 — The report AMMAT will not provide an effective assessment of the maturity of the GTB supplier's asset management capability and processes unless the preparation of the report AMMAT is supported by senior management of the GTB.

Formatted: Font: Italic

Formatted: Font: Italic

Formatted: Font: Italic

Formatted: Font: Not Bold, Italic

Formatted: Font: Italic

3.2

3.7 — The level of effort required to complete the report AMMAT should be consistent with a gap analysis exercise rather than the level typically involved with an audit for certification.

Formatted: Font: Italic

3.3

3.8 — An audit involves a systematic, independent process for the collection and analysis of evidence to support a rating whereas the report AMMAT is intended to be used by providing a reference to supporting evidence or an explanation of the self-assessment.

Formatted: Font: Italic

3.4

3.9 — The level of documentation within an asset management system is expected to be consistent with factors such as the size of the company, complexity of processes and competence of personnel.

3.5

3.103.6 — The definitions provided in the report AMMAT for each maturity rating should provide sufficient information for a GTB to objectively identify the level currently being achieved by the organisation.

Formatted: Font: Italic

Formatted: Font: Italic

Formatted: Font: Not Bold, Italic

Formatted: Font: Italic

<div style="text-align: right;"> Company Name <input type="text"/> AMP Planning Period <input type="text"/> Asset Management Standard Applied <input type="text"/> </div> SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY This schedule requires information on the GTB'S self-assessment of the maturity of its asset management practices .								
Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/document Information
3	Asset management policy	To what extent has an asset management policy been documented, authorised and communicated?				Widely used AM practice standards require an organisation to document, authorise and communicate its asset management policy (eg, as required in PAS 55 para 4.2 i). A key pre-requisite of any robust policy is that the organisation's top management must be seen to endorse and fully support it. Also vital to the effective implementation of the policy, is to tell the appropriate people of its content and their obligations under it. Where an organisation outsources some of its asset-related activities, then these people and their organisations must equally be made aware of the policy's content. Also, there may be other stakeholders, such as regulatory authorities and shareholders who should be made aware of it.	Top management. The management team that has overall responsibility for asset management.	The organisation's asset management policy, its organisational strategic plan, documents indicating how the asset management policy was based upon the needs of the organisation and evidence of communication.
10	Asset management strategy	What has the organisation done to ensure that its asset management strategy is consistent with other appropriate organisational policies and strategies, and the needs of stakeholders?				In setting an organisation's asset management strategy, it is important that it is consistent with any other policies and strategies that the organisation has and has taken into account the requirements of relevant stakeholders. This question examines to what extent the asset management strategy is consistent with other organisational policies and strategies (eg, as required by PAS 55 para 4.3.1 b) and has taken account of stakeholder requirements as required by PAS 55 para 4.3.1 c). Generally, this will take into account the same policies, strategies and stakeholder requirements as covered in drafting the asset management policy but at a greater level of detail.	Top management. The organisation's strategic planning team. The management team that has overall responsibility for asset management.	The organisation's asset management strategy document and other related organisational policies and strategies. Other than the organisation's strategic plan, these could include those relating to health and safety, environmental, etc. Results of stakeholder consultation.
11	Asset management strategy	In what way does the organisation's asset management strategy take account of the lifecycle of the assets, asset types and asset systems over which the organisation has stewardship?				Good asset stewardship is the hallmark of an organisation compliant with widely used AM standards. A key component of this is the need to take account of the lifecycle of the assets, asset types and asset systems. (For example, this requirement is recognised in 4.3.1 d) of PAS 55). This question explores what an organisation has done to take lifecycle into account in its asset management strategy.	Top management. People in the organisation with expert knowledge of the assets, asset types, asset systems and their associated life-cycles. The management team that has overall responsibility for asset management. Those responsible for developing and adopting methods and processes used in asset management	The organisation's documented asset management strategy and supporting working documents.
26	Asset management plan(s)	How does the organisation establish and document its asset management plan(s) across the life cycle activities of its assets and asset systems?				The asset management strategy need to be translated into practical plan(s) so that all parties know how the objectives will be achieved. The development of plan(s) will need to identify the specific tasks and activities required to optimize costs, risks and performance of the assets and/or asset system(s), when they are to be carried out and the resources required.	The management team with overall responsibility for the asset management system. Operations, maintenance and engineering managers.	The organisation's asset management plan(s).

Company Name <input type="text"/> AMP Planning Period <input type="text"/> Asset Management Standard Applied <input type="text"/>							
SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)							
Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
3	Asset management policy	To what extent has an asset management policy been documented, authorised and communicated?	The organisation does not have a documented asset management policy.	The organisation has an asset management policy, but it has not been authorised by top management, or it is not influencing the management of the assets.	The organisation has an asset management policy, which has been authorised by top management, but it has had limited circulation. It may be in use to influence development of strategy and planning but its effect is limited.	The asset management policy is authorised by top management, is widely and effectively communicated to all relevant employees and stakeholders, and used to make these persons aware of their asset related obligations.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
10	Asset management strategy	What has the organisation done to ensure that its asset management strategy is consistent with other appropriate organisational policies and strategies, and the needs of stakeholders?	The organisation has not considered the need to ensure that its asset management strategy is appropriately aligned with the organisation's other organisational policies and strategies or with stakeholder requirements. OR The organisation does not have an asset management strategy.	The need to align the asset management strategy with other organisational policies and strategies as well as stakeholder requirements is understood and work has started to identify the linkages or to incorporate them in the drafting of asset management strategy.	Some of the linkages between the long-term asset management strategy and other organisational policies, strategies and stakeholder requirements are defined but the work is fairly well advanced but still incomplete.	All linkages are in place and evidence is available to demonstrate that, where appropriate, the organisation's asset management strategy is consistent with its other organisational policies and strategies. The organisation has also identified and considered the requirements of relevant stakeholders.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
11	Asset management strategy	In what way does the organisation's asset management strategy take account of the lifecycle of the assets, asset types and asset systems over which the organisation has stewardship?	The organisation has not considered the need to ensure that its asset management strategy is produced with due regard to the lifecycle of the assets, asset types or asset systems that it manages. OR The organisation does not have an asset management strategy.	The need is understood, and the organisation is drafting its asset management strategy to address the lifecycle of its assets, asset types and asset systems.	The long-term asset management strategy takes account of the lifecycle of some, but not all, of its assets, asset types and asset systems.	The asset management strategy takes account of the lifecycle of all of its assets, asset types and asset systems.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
26	Asset management plan(s)	How does the organisation establish and document its asset management plan(s) across the life cycle activities of its assets and asset systems?	The organisation does not have an identifiable asset management plan(s) covering asset systems and critical assets.	The organisation has asset management plan(s) but they are not aligned with the asset management strategy and objectives and do not take into consideration the full asset life cycle (including asset creation, acquisition, enhancement, utilisation, maintenance decommissioning and disposal).	The organisation is in the process of putting in place comprehensive, documented asset management plan(s) that cover all life cycle activities, clearly aligned to asset management objectives and the asset management strategy.	Asset management plan(s) are established, documented, implemented and maintained for asset systems and critical assets to achieve the asset management strategy and asset management objectives across all life cycle phases.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

<div style="text-align: right;"> Company Name _____ AMP Planning Period _____ Asset Management Standard Applied _____ </div> SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)								
Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/document Information
27	Asset management plan(s)	How has the organisation communicated its plan(s) to all relevant parties to a level of detail appropriate to the receiver's role in their delivery?				Plans will be ineffective unless they are communicated to all those, including contracted suppliers and those who undertake enabling function(s). The plan(s) need to be communicated in a way that is relevant to those who need to use them.	The management team with overall responsibility for the asset management system. Delivery functions and suppliers.	Distribution lists for plan(s). Documents derived from plan(s) which detail the receivers role in plan delivery. Evidence of communication.
29	Asset management plan(s)	How are designated responsibilities for delivery of asset plan actions documented?				The implementation of asset management plan(s) relies on (1) actions being clearly identified, (2) an owner allocated and (3) that owner having sufficient delegated responsibility and authority to carry out the work required. It also requires alignment of actions across the organisation. This question explores how well the plan(s) set out responsibility for delivery of asset plan actions.	The management team with overall responsibility for the asset management system. Operations, maintenance and engineering managers. If appropriate, the performance management team.	The organisation's asset management plan(s). Documentation defining roles and responsibilities of individuals and organisational departments.
31	Asset management plan(s)	What has the organisation done to ensure that appropriate arrangements are made available for the efficient and cost effective implementation of the plan(s)? (Note this is about resources and enabling support)				It is essential that the plan(s) are realistic and can be implemented, which requires appropriate resources to be available and enabling mechanisms in place. This question explores how well this is achieved. The plan(s) not only need to consider the resources directly required and timescales, but also the enabling activities, including for example, training requirements, supply chain capability and procurement timescales.	The management team with overall responsibility for the asset management system. Operations, maintenance and engineering managers. If appropriate, the performance management team. Where appropriate the procurement team and service providers working on the organisation's asset-related activities.	The organisation's asset management plan(s). Documented processes and procedures for the delivery of the asset management plan.
33	Contingency planning	What plan(s) and procedure(s) does the organisation have for identifying and responding to incidents and emergency situations and ensuring continuity of critical asset management activities?				Widely used AM practice standards require that an organisation has plan(s) to identify and respond to emergency situations. Emergency plan(s) should outline the actions to be taken to respond to specified emergency situations and ensure continuity of critical asset management activities including the communication to, and involvement of, external agencies. This question assesses if, and how well, these plan(s) triggered, implemented and resolved in the event of an incident. The plan(s) should be appropriate to the level of risk as determined by the organisation's risk assessment methodology. It is also a requirement that relevant personnel are competent and trained.	The manager with responsibility for developing emergency plan(s). The organisation's risk assessment team. People with designated duties within the plan(s) and procedure(s) for dealing with incidents and emergency situations.	The organisation's plan(s) and procedure(s) for dealing with emergencies. The organisation's risk assessments and risk registers.

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)							
							Company Name
							AMP Planning Period
							Asset Management Standard Applied
Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
27	Asset management plan(s)	How has the organisation communicated its plan(s) to all relevant parties to a level of detail appropriate to the receiver's role in their delivery?	The organisation does not have plan(s) or their distribution is limited to the authors.	The plan(s) are communicated to some of those responsible for delivery of the plan(s). OR Communicated to those responsible for delivery is either irregular or ad-hoc.	The plan(s) are communicated to most of those responsible for delivery but there are weaknesses in identifying relevant parties resulting in incomplete or inappropriate communication. The organisation recognises improvement is needed as is working towards resolution.	The plan(s) are communicated to all relevant employees, stakeholders and contracted service providers to a level of detail appropriate to their participation or business interests in the delivery of the plan(s) and there is confirmation that they are being used effectively.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
29	Asset management plan(s)	How are designated responsibilities for delivery of asset plan actions documented?	The organisation has not documented responsibilities for delivery of asset plan actions.	Asset management plan(s) inconsistently document responsibilities for delivery of plan actions and activities and/or responsibilities and authorities for implementation inadequate and/or delegation level inadequate to ensure effective delivery and/or contain misalignments with organisational accountability.	Asset management plan(s) consistently document responsibilities for the delivery of actions but responsibility/authority levels are inappropriate/ inadequate, and/or there are misalignments within the organisation.	Asset management plan(s) consistently document responsibilities for the delivery actions and there is adequate detail to enable delivery of actions. Designated responsibility and authority for achievement of asset plan actions is appropriate.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
31	Asset management plan(s)	What has the organisation done to ensure that appropriate arrangements are made available for the efficient and cost effective implementation of the plan(s)? (Note this is about resources and enabling support)	The organisation has not considered the arrangements needed for the effective implementation of plan(s).	The organisation recognises the need to ensure appropriate arrangements are in place for implementation of asset management plan(s) and is in the process of determining an appropriate approach for achieving this.	The organisation has arrangements in place for the implementation of asset management plan(s) but the arrangements are not yet adequately efficient and/or effective. The organisation is working to resolve existing weaknesses.	The organisation's arrangements fully cover all the requirements for the efficient and cost effective implementation of asset management plan(s) and realistically address the resources and timescales required, and any changes needed to functional policies, standards, processes and the asset management information system.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
33	Contingency planning	What plan(s) and procedure(s) does the organisation have for identifying and responding to incidents and emergency situations and ensuring continuity of critical asset management activities?	The organisation has not considered the need to establish plan(s) and procedure(s) to identify and respond to incidents and emergency situations.	The organisation has some ad-hoc arrangements to deal with incidents and emergency situations, but these have been developed on a reactive basis in response to specific events that have occurred in the past.	Most credible incidents and emergency situations are identified. Either appropriate plan(s) and procedure(s) are incomplete for critical activities or they are inadequate. Training/ external alignment may be incomplete.	Appropriate emergency plan(s) and procedure(s) are in place to respond to credible incidents and manage continuity of critical asset management activities consistent with policies and asset management objectives. Training and external agency alignment is in place.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="flex: 1;"> <p>SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)</p> </div> <div style="flex: 2;"> <p>Company Name _____</p> <p>AMP Planning Period _____</p> <p>Asset Management Standard Applied _____</p> </div> </div>								
Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/document Information
37	Structure, authority and responsibilities	What has the organisation done to appoint member(s) of its management team to be responsible for ensuring that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s)?				In order to ensure that the organisation's assets and asset systems deliver the requirements of the asset management policy, strategy and objectives responsibilities need to be allocated to appropriate people who have the necessary authority to fulfil their responsibilities. (This question, relates to the organisation's assets eg, para b), s 4.4.1 of PAS 55, making it therefore distinct from the requirement contained in para a), s 4.4.1 of PAS 55).	Top management. People with management responsibility for the delivery of asset management policy, strategy, objectives and plan(s). People working on asset-related activities.	Evidence that managers with responsibility for the delivery of asset management policy, strategy, objectives and plan(s) have been appointed and have assumed their responsibilities. Evidence may include the organisation's documents relating to its asset management system, organisational charts, job descriptions of post-holders, annual targets/objectives and personal development plan(s) of post-holders as appropriate.
40	Structure, authority and responsibilities	What evidence can the organisation's top management provide to demonstrate that sufficient resources are available for asset management?				Optimal asset management requires top management to ensure sufficient resources are available. In this context the term 'resources' includes manpower, materials, funding and service provider support.	Top management. The management team that has overall responsibility for asset management. Risk management team. The organisation's managers involved in day-to-day supervision of asset-related activities, such as frontline managers, engineers, foremen and chargehands as appropriate.	Evidence demonstrating that asset management plan(s) and/or the process(es) for asset management plan implementation consider the provision of adequate resources in both the short and long term. Resources include funding, materials, equipment, services provided by third parties and personnel (internal and service providers) with appropriate skills competencies and knowledge.
42	Structure, authority and responsibilities	To what degree does the organisation's top management communicate the importance of meeting its asset management requirements?				Widely used AM practice standards require an organisation to communicate the importance of meeting its asset management requirements such that personnel fully understand, take ownership of, and are fully engaged in the delivery of the asset management requirements (eg, PAS 55 s 4.4.1 g).	Top management. The management team that has overall responsibility for asset management. People involved in the delivery of the asset management requirements.	Evidence of such activities as road shows, written bulletins, workshops, team talks and management walkabouts would assist an organisation to demonstrate it is meeting this requirement of PAS 55.
45	Outsourcing of asset management activities	Where the organisation has outsourced some of its asset management activities, how has it ensured that appropriate controls are in place to ensure the compliant delivery of its organisational strategic plan, and its asset management policy and strategy?				Where an organisation chooses to outsource some of its asset management activities, the organisation must ensure that these outsourced process(es) are under appropriate control to ensure that all the requirements of widely used AM standards (eg, PAS 55) are in place, and the asset management policy, strategy objectives and plan(s) are delivered. This includes ensuring capabilities and resources across a time span aligned to life cycle management. The organisation must put arrangements in place to control the outsourced activities, whether it be to external providers or to other in-house departments. This question explores what the organisation does in this regard.	Top management. The management team that has overall responsibility for asset management. The manager(s) responsible for the monitoring and management of the outsourced activities. People involved with the procurement of outsourced activities. The people within the organisations that are performing the outsourced activities. The people impacted by the outsourced activity.	The organisation's arrangements that detail the compliance required of the outsourced activities. For example, this this could form part of a contract or service level agreement between the organisation and the suppliers of its outsourced activities. Evidence that the organisation has demonstrated to itself that it has assurance of compliance of outsourced activities.

Company Name AMP Planning Period Asset Management Standard Applied							
SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)							
Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
37	Structure, authority and responsibilities	What has the organisation done to appoint member(s) of its management team to be responsible for ensuring that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s)?	Top management has not considered the need to appoint a person or persons to ensure that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s).	Top management understands the need to appoint a person or persons to ensure that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s).	Top management has appointed an appropriate people to ensure the assets deliver the requirements of the asset management strategy, objectives and plan(s) but their areas of responsibility are not fully defined and/or they have insufficient delegated authority to fully execute their responsibilities.	The appointed person or persons have full responsibility for ensuring that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s). They have been given the necessary authority to achieve this.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
40	Structure, authority and responsibilities	What evidence can the organisation's top management provide to demonstrate that sufficient resources are available for asset management?	The organisation's top management has not considered the resources required to deliver asset management.	The organisations top management understands the need for sufficient resources but there are no effective mechanisms in place to ensure this is the case.	A process exists for determining what resources are required for its asset management activities and in most cases these are available but in some instances resources remain insufficient.	An effective process exists for determining the resources needed for asset management and sufficient resources are available. It can be demonstrated that resources are matched to asset management requirements.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
42	Structure, authority and responsibilities	To what degree does the organisation's top management communicate the importance of meeting its asset management requirements?	The organisation's top management has not considered the need to communicate the importance of meeting asset management requirements.	The organisations top management understands the need to communicate the importance of meeting its asset management requirements but does not do so.	Top management communicates the importance of meeting its asset management requirements but only to parts of the organisation.	Top management communicates the importance of meeting its asset management requirements to all relevant parts of the organisation.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
45	Outsourcing of asset management activities	Where the organisation has outsourced some of its asset management activities, how has it ensured that appropriate controls are in place to ensure the compliant delivery of its organisational strategic plan, and its asset management policy and strategy?	The organisation has not considered the need to put controls in place.	The organisation controls its outsourced activities on an ad-hoc basis, with little regard for ensuring for the compliant delivery of the organisational strategic plan and/or its asset management policy and strategy.	Controls systematically considered but currently only provide for the compliant delivery of some, but not all, aspects of the organisational strategic plan and/or its asset management policy and strategy. Gaps exist.	Evidence exists to demonstrate that outsourced activities are appropriately controlled to provide for the compliant delivery of the organisational strategic plan, asset management policy and strategy, and that these controls are integrated into the asset management system	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

<div style="display: flex; justify-content: space-between;"> SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont) <div style="border: 1px solid black; padding: 2px;"> Company Name AMP Planning Period Asset Management Standard Applied </div> </div>								
Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/document Information
48	Training, awareness and competence	How does the organisation develop plan(s) for the human resources required to undertake asset management activities - including the development and delivery of asset management strategy, process(es), objectives and plan(s)?				There is a need for an organisation to demonstrate that it has considered what resources are required to develop and implement its asset management system. There is also a need for the organisation to demonstrate that it has assessed what development plan(s) are required to provide its human resources with the skills and competencies to develop and implement its asset management systems. The timescales over which the plan(s) are relevant should be commensurate with the planning horizons within the asset management strategy considers e.g. if the asset management strategy considers 5, 10 and 15 year time scales then the human resources development plan(s) should align with these. Resources include both 'in house' and external resources who undertake asset management activities.	Senior management responsible for agreement of plan(s). Managers responsible for developing asset management strategy and plan(s). Managers with responsibility for development and recruitment of staff (including HR functions). Staff responsible for training. Procurement officers. Contracted service providers.	Evidence of analysis of future work load plan(s) in terms of human resources. Document(s) containing analysis of the organisation's own direct resources and contractors resource capability over suitable timescales. Evidence, such as minutes of meetings, that suitable management forums are monitoring human resource development plan(s). Training plan(s), personal development plan(s), contract and service level agreements.
49	Training, awareness and competence	How does the organisation identify competency requirements and then plan, provide and record the training necessary to achieve the competencies?				Widely used AM standards require that organisations to undertake a systematic identification of the asset management awareness and competencies required at each level and function within the organisation. Once identified the training required to provide the necessary competencies should be planned for delivery in a timely and systematic way. Any training provided must be recorded and maintained in a suitable format. Where an organisation has contracted service providers in place then it should have a means to demonstrate that this requirement is being met for their employees. (eg, PAS 55 refers to frameworks suitable for identifying competency requirements).	Senior management responsible for agreement of plan(s). Managers responsible for developing asset management strategy and plan(s). Managers with responsibility for development and recruitment of staff (including HR functions). Staff responsible for training. Procurement officers. Contracted service providers.	Evidence of an established and applied competency requirements assessment process and plan(s) in place to deliver the required training. Evidence that the training programme is part of a wider, co-ordinated asset management activities training and competency programme. Evidence that training activities are recorded and that records are readily available (for both direct and contracted service provider staff) e.g. via organisation wide information system or local records database.
50	Training, awareness and competence	How does the organization ensure that persons under its direct control undertaking asset management related activities have an appropriate level of competence in terms of education, training or experience?				A critical success factor for the effective development and implementation of an asset management system is the competence of persons undertaking these activities. organisations should have effective means in place for ensuring the competence of employees to carry out their designated asset management function(s). Where an organisation has contracted service providers undertaking elements of its asset management system then the organisation shall assure itself that the outsourced service provider also has suitable arrangements in place to manage the competencies of its employees. The organisation should ensure that the individual and corporate competencies it requires are in place and actively monitor, develop and maintain an appropriate balance of these competencies.	Managers, supervisors, persons responsible for developing training programmes. Staff responsible for procurement and service agreements. HR staff and those responsible for recruitment.	Evidence of a competency assessment framework that aligns with established frameworks such as the asset management Competencies Requirements Framework (Version 2.0); National Occupational Standards for Management and Leadership; UK Standard for Professional Engineering Competence, Engineering Council, 2005.

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)							
						Company Name	
						AMP Planning Period	
						Asset Management Standard Applied	
Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
48	Training, awareness and competence	How does the organisation develop plan(s) for the human resources required to undertake asset management activities - including the development and delivery of asset management strategy, process(es), objectives and plan(s)?	The organisation has not recognised the need for assessing human resources requirements to develop and implement its asset management system.	The organisation has recognised the need to assess its human resources requirements and to develop a plan(s). There is limited recognition of the need to align these with the development and implementation of its asset management system.	The organisation has developed a strategic approach to aligning competencies and human resources to the asset management system including the asset management plan but the work is incomplete or has not been consistently implemented.	The organisation can demonstrate that plan(s) are in place and effective in matching competencies and capabilities to the asset management system including the plan for both internal and contracted activities. Plans are reviewed integral to asset management system process(es).	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
49	Training, awareness and competence	How does the organisation identify competency requirements and then plan, provide and record the training necessary to achieve the competencies?	The organisation does not have any means in place to identify competency requirements.	The organisation has recognised the need to identify competency requirements and then plan, provide and record the training necessary to achieve the competencies.	The organisation is the process of identifying competency requirements aligned to the asset management plan(s) and then plan, provide and record appropriate training. It is incomplete or inconsistently applied.	Competency requirements are in place and aligned with asset management plan(s). Plans are in place and effective in providing the training necessary to achieve the competencies. A structured means of recording the competencies achieved is in place.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
50	Training, awareness and competence	How does the organization ensure that persons under its direct control undertaking asset management related activities have an appropriate level of competence in terms of education, training or experience?	The organization has not recognised the need to assess the competence of person(s) undertaking asset management related activities.	Competency of staff undertaking asset management related activities is not managed or assessed in a structured way, other than formal requirements for legal compliance and safety management.	The organization is in the process of putting in place a means for assessing the competence of person(s) involved in asset management activities including contractors. There are gaps and inconsistencies.	Competency requirements are identified and assessed for all persons carrying out asset management related activities - internal and contracted. Requirements are reviewed and staff reassessed at appropriate intervals aligned to asset management requirements.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

<div style="text-align: right;"> Company Name _____ AMP Planning Period _____ Asset Management Standard Applied _____ </div> SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)								
Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/document Information
53	Communication, participation and consultation	How does the organisation ensure that pertinent asset management information is effectively communicated to and from employees and other stakeholders, including contracted service providers?				Widely used AM practice standards require that pertinent asset management information is effectively communicated to and from employees and other stakeholders including contracted service providers. Pertinent information refers to information required in order to effectively and efficiently comply with and deliver asset management strategy, plan(s) and objectives. This will include for example the communication of the asset management policy, asset performance information, and planning information as appropriate to contractors.	Top management and senior management representative(s), employee's representative(s), employee's trade union representative(s); contracted service provider management and employee representative(s); representative(s) from the organisation's Health, Safety and Environmental team. Key stakeholder representative(s).	Asset management policy statement prominently displayed on notice boards, intranet and internet; use of organisation's website for displaying asset performance data; evidence of formal briefings to employees, stakeholders and contracted service providers; evidence of inclusion of asset management issues in team meetings and contracted service provider contract meetings; newsletters, etc.
59	Asset Management System documentation	What documentation has the organisation established to describe the main elements of its asset management system and interactions between them?				Widely used AM practice standards require an organisation maintain up to date documentation that ensures that its asset management systems (ie, the systems the organisation has in place to meet the standards) can be understood, communicated and operated. (eg, s 4.5 of PAS 55 requires the maintenance of up to date documentation of the asset management system requirements specified throughout s 4 of PAS 55).	The management team that has overall responsibility for asset management. Managers engaged in asset management activities.	The documented information describing the main elements of the asset management system (process(es)) and their interaction.
62	Information management	What has the organisation done to determine what its asset management information system(s) should contain in order to support its asset management system?				Effective asset management requires appropriate information to be available. Widely used AM standards therefore require the organisation to identify the asset management information it requires in order to support its asset management system. Some of the information required may be held by suppliers. The maintenance and development of asset management information systems is a poorly understood specialist activity that is akin to IT management but different from IT management. This group of questions provides some indications as to whether the capability is available and applied. Note: To be effective, an asset information management system requires the mobilisation of technology, people and process(es) that create, secure, make available and destroy the information required to support the asset management system.	The organisation's strategic planning team. The management team that has overall responsibility for asset management. Information management team. Operations, maintenance and engineering managers	Details of the process the organisation has employed to determine what its asset information system should contain in order to support its asset management system. Evidence that this has been effectively implemented.
63	Information management	How does the organisation maintain its asset management information system(s) and ensure that the data held within it (them) is of the requisite quality and accuracy and is consistent?				The response to the questions is progressive. A higher scale cannot be awarded without achieving the requirements of the lower scale. This question explores how the organisation ensures that information management meets widely used AM practice requirements (eg, s 4.4.6 (a), (c) and (d) of PAS 55).	The management team that has overall responsibility for asset management. Users of the organisational information systems.	The asset management information system, together with the policies, procedure(s), improvement initiatives and audits regarding information controls.

Company Name _____ AMP Planning Period _____ Asset Management Standard Applied _____							
SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)							
Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
53	Communication, participation and consultation	How does the organisation ensure that pertinent asset management information is effectively communicated to and from employees and other stakeholders, including contracted service providers?	The organisation has not recognised the need to formally communicate any asset management information.	There is evidence that the pertinent asset management information to be shared along with those to share it with is being determined.	The organisation has determined pertinent information and relevant parties. Some effective two way communication is in place but as yet not all relevant parties are clear on their roles and responsibilities with respect to asset management information.	Two way communication is in place between all relevant parties, ensuring that information is effectively communicated to match the requirements of asset management strategy, plan(s) and process(es). Pertinent asset information requirements are regularly reviewed.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
59	Asset Management System documentation	What documentation has the organisation established to describe the main elements of its asset management system and interactions between them?	The organisation has not established documentation that describes the main elements of the asset management system.	The organisation is aware of the need to put documentation in place and is in the process of determining how to document the main elements of its asset management system.	The organisation is in the process of documenting its asset management system and has documentation in place that describes some, but not all, of the main elements of its asset management system and their interaction.	The organisation has established documentation that comprehensively describes all the main elements of its asset management system and the interactions between them. The documentation is kept up to date.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
62	Information management	What has the organisation done to determine what its asset management information system(s) should contain in order to support its asset management system?	The organisation has not considered what asset management information is required.	The organisation is aware of the need to determine in a structured manner what its asset information system should contain in order to support its asset management system and is in the process of deciding how to do this.	The organisation has developed a structured process to determine what its asset information system should contain in order to support its asset management system and has commenced implementation of the process.	The organisation has determined what its asset information system should contain in order to support its asset management system. The requirements relate to the whole life cycle and cover information originating from both internal and external sources.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
63	Information management	How does the organisation maintain its asset management information system(s) and ensure that the data held within it (them) is of the requisite quality and accuracy and is consistent?	There are no formal controls in place or controls are extremely limited in scope and/or effectiveness.	The organisation is aware of the need for effective controls and is in the process of developing an appropriate control process(es).	The organisation has developed a controls that will ensure the data held is of the requisite quality and accuracy and is consistent and is in the process of implementing them.	The organisation has effective controls in place that ensure the data held is of the requisite quality and accuracy and is consistent. The controls are regularly reviewed and improved where necessary.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

<div style="text-align: right;"> Company Name _____ AMP Planning Period _____ Asset Management Standard Applied _____ </div> SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)								
Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
64	Information management	How has the organisation's ensured its asset management information system is relevant to its needs?				Widely used AM standards need not be prescriptive about the form of the asset management information system, but simply require that the asset management information system is appropriate to the organisations needs, can be effectively used and can supply information which is consistent and of the requisite quality and accuracy.	The organisation's strategic planning team. The management team that has overall responsibility for asset management. Information management team. Users of the organisational information systems.	The documented process the organisation employs to ensure its asset management information system aligns with its asset management requirements. Minutes of information systems review meetings involving users.
69	Risk management process(es)	How has the organisation documented process(es) and/or procedure(s) for the identification and assessment of asset and asset management related risks throughout the asset life cycle?				Risk management is an important foundation for proactive asset management. Its overall purpose is to understand the cause, effect and likelihood of adverse events occurring, to optimally manage such risks to an acceptable level, and to provide an audit trail for the management of risks. Widely used standards require the organisation to have process(es) and/or procedure(s) in place that set out how the organisation identifies and assesses asset and asset management related risks. The risks have to be considered across the four phases of the asset lifecycle (eg, para 4.3.3 of PAS 55).	The top management team in conjunction with the organisation's senior risk management representatives. There may also be input from the organisation's Safety, Health and Environment team. Staff who carry out risk identification and assessment.	The organisation's risk management framework and/or evidence of specific process(es) and/ or procedure(s) that deal with risk control mechanisms. Evidence that the process(es) and/or procedure(s) are implemented across the business and maintained. Evidence of agendas and minutes from risk management meetings. Evidence of feedback in to process(es) and/or procedure(s) as a result of incident investigation(s). Risk registers and assessments.
79	Use and maintenance of asset risk information	How does the organisation ensure that the results of risk assessments provide input into the identification of adequate resources and training and competency needs?				Widely used AM standards require that the output from risk assessments are considered and that adequate resource (including staff) and training is identified to match the requirements. It is a further requirement that the effects of the control measures are considered, as there may be implications in resources and training required to achieve other objectives.	Staff responsible for risk assessment and those responsible for developing and approving resource and training plan(s). There may also be input from the organisation's Safety, Health and Environment team.	The organisations risk management framework. The organisation's resourcing plan(s) and training and competency plan(s). The organisation should be able to demonstrate appropriate linkages between the content of resource plan(s) and training and competency plan(s) to the risk assessments and risk control measures that have been developed.
82	Legal and other requirements	What procedure does the organisation have to identify and provide access to its legal, regulatory, statutory and other asset management requirements, and how is requirements incorporated into the asset management system?				In order for an organisation to comply with its legal, regulatory, statutory and other asset management requirements, the organisation first needs to ensure that it knows what they are (eg, PAS 55 specifies this in s 4.4.8). It is necessary to have systematic and auditable mechanisms in place to identify new and changing requirements. Widely used AM standards also require that requirements are incorporated into the asset management system (e.g. procedure(s) and process(es))	Top management. The organisations regulatory team. The organisation's legal team or advisors. The management team with overall responsibility for the asset management system. The organisation's health and safety team or advisors. The organisation's policy making team.	The organisational processes and procedures for ensuring information of this type is identified, made accessible to those requiring the information and is incorporated into asset management strategy and objectives
88	Life Cycle Activities	How does the organisation establish implement and maintain process(es) for the implementation of its asset management plan(s) and control of activities across the creation, acquisition or enhancement of assets. This includes design, modification, procurement, construction and commissioning activities?				Life cycle activities are about the implementation of asset management plan(s) i.e. they are the "doing" phase. They need to be done effectively and well in order for asset management to have any practical meaning. As a consequence, widely used standards (eg, PAS 55 s 4.5.1) require organisations to have in place appropriate process(es) and procedure(s) for the implementation of asset management plan(s) and control of lifecycle activities. This question explores those aspects relevant to asset creation.	Asset managers, design staff, construction staff and project managers from other impacted areas of the business, e.g. Procurement	Documented process(es) and procedure(s) which are relevant to demonstrating the effective management and control of life cycle activities during asset creation, acquisition, enhancement including design, modification, procurement, construction and commissioning.

<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="flex: 1;"> <p>SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)</p> </div> <div style="flex: 1; text-align: right;"> <p>Company Name _____ AMP Planning Period _____ Asset Management Standard Applied _____</p> </div> </div>							
Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
64	Information management	How has the organisation's ensured its asset management information system is relevant to its needs?	The organisation has not considered the need to determine the relevance of its management information system. At present there are major gaps between what the information system provides and the organisations needs.	The organisation understands the need to ensure its asset management information system is relevant to its needs and is determining an appropriate means by which it will achieve this. At present there are significant gaps between what the information system provides and the organisations needs.	The organisation has developed and is implementing a process to ensure its asset management information system is relevant to its needs. Gaps between what the information system provides and the organisations needs have been identified and action is being taken to close them.	The organisation's asset management information system aligns with its asset management requirements. Users can confirm that it is relevant to their needs.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
69	Risk management process(es)	How has the organisation documented process(es) and/or procedure(s) for the identification and assessment of asset and asset management related risks throughout the asset life cycle?	The organisation has not considered the need to document process(es) and/or procedure(s) for the identification and assessment of asset and asset management related risks throughout the asset life cycle.	The organisation is aware of the need to document the management of asset related risk across the asset lifecycle. The organisation has plan(s) to formally document all relevant process(es) and procedure(s) or has already commenced this activity.	The organisation is in the process of documenting the identification and assessment of asset related risk across the asset lifecycle but it is incomplete or there are inconsistencies between approaches and a lack of integration.	Identification and assessment of asset related risk across the asset lifecycle is fully documented. The organisation can demonstrate that appropriate documented mechanisms are integrated across life cycle phases and are being consistently applied.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
79	Use and maintenance of asset risk information	How does the organisation ensure that the results of risk assessments provide input into the identification of adequate resources and training and competency needs?	The organisation has not considered the need to conduct risk assessments.	The organisation is aware of the need to consider the results of risk assessments and effects of risk control measures to provide input into reviews of resources, training and competency needs. Current input is typically ad-hoc and reactive.	The organisation is in the process ensuring that outputs of risk assessment are included in developing requirements for resources and training. The implementation is incomplete and there are gaps and inconsistencies.	Outputs from risk assessments are consistently and systematically used as inputs to develop resources, training and competency requirements. Examples and evidence is available.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
82	Legal and other requirements	What procedure does the organisation have to identify and provide access to its legal, regulatory, statutory and other asset management requirements, and how is requirements incorporated into the asset management system?	The organisation has not considered the need to identify its legal, regulatory, statutory and other asset management requirements.	The organisation identifies some its legal, regulatory, statutory and other asset management requirements, but this is done in an ad-hoc manner in the absence of a procedure.	The organisation has procedure(s) to identify its legal, regulatory, statutory and other asset management requirements, but the information is not kept up to date, inadequate or inconsistently managed.	Evidence exists to demonstrate that the organisation's legal, regulatory, statutory and other asset management requirements are identified and kept up to date. Systematic mechanisms for identifying relevant legal and statutory requirements.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
88	Life Cycle Activities	How does the organisation establish implement and maintain process(es) for the implementation of its asset management plan(s) and control of activities across the creation, acquisition or enhancement of assets. This includes design, modification, procurement, construction and commissioning activities?	The organisation does not have process(es) in place to manage and control the implementation of asset management plan(s) during activities related to asset creation including design, modification, procurement, construction and commissioning.	The organisation is aware of the need to have process(es) and procedure(s) in place to manage and control the implementation of asset management plan(s) during activities related to asset creation including design, modification, procurement, construction and commissioning but currently do not have these in place (note: procedure(s) may exist but they are inconsistent/incomplete).	The organisation is in the process of putting in place process(es) and procedure(s) to manage and control the implementation of asset management plan(s) during activities related to asset creation including design, modification, procurement, construction and commissioning. Gaps and inconsistencies are being addressed.	Effective process(es) and procedure(s) are in place to manage and control the implementation of asset management plan(s) during activities related to asset creation including design, modification, procurement, construction and commissioning.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="flex: 1;"> <p>SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)</p> </div> <div style="flex: 1;"> <p>Company Name _____</p> <p>AMP Planning Period _____</p> <p>Asset Management Standard Applied _____</p> </div> </div>								
Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
91	Life Cycle Activities	How does the organisation ensure that process(es) and/or procedure(s) for the implementation of asset management plan(s) and control of activities during maintenance (and inspection) of assets are sufficient to ensure activities are carried out under specified conditions, are consistent with asset management strategy and control cost, risk and				Having documented process(es) which ensure the asset management plan(s) are implemented in accordance with any specified conditions, in a manner consistent with the asset management policy, strategy and objectives and in such a way that cost, risk and asset system performance are appropriately controlled is critical. They are an essential part of turning intention into action (eg, as required by PAS 55 s 4.5.1).	Asset managers, operations managers, maintenance managers and project managers from other impacted areas of the business	Documented procedure for review. Documented procedure for audit of process delivery. Records of previous audits, improvement actions and documented confirmation that actions have been carried out.
95	Performance and condition monitoring	How does the organisation measure the performance and condition of its assets?				Widely used AM standards require that organisations establish implement and maintain procedure(s) to monitor and measure the performance and/or condition of assets and asset systems. They further set out requirements in some detail for reactive and proactive monitoring, and leading/lagging performance indicators together with the monitoring or results to provide input to corrective actions and continual improvement. There is an expectation that performance and condition monitoring will provide input to improving asset management strategy, objectives and plan(s).	A broad cross-section of the people involved in the organisation's asset-related activities from data input to decision-makers, i.e. an end-to end assessment. This should include contactors and other relevant third parties as appropriate.	Functional policy and/or strategy documents for performance or condition monitoring and measurement. The organisation's performance monitoring frameworks, balanced scorecards etc. Evidence of the reviews of any appropriate performance indicators and the action lists resulting from these reviews. Reports and trend analysis using performance and condition information. Evidence of the use of performance and condition information shaping improvements and supporting asset management strategy, objectives and plan(s).
99	Investigation of asset-related failures, incidents and nonconformities	How does the organisation ensure responsibility and the authority for the handling, investigation and mitigation of asset-related failures, incidents and emergency situations and non conformances is clear, unambiguous, understood and communicated?				Widely used AM standards require that the organisation establishes implements and maintains process(es) for the handling and investigation of failures incidents and non-conformities for assets and sets down a number of expectations. Specifically this question examines the requirement to define clearly responsibilities and authorities for these activities, and communicate these unambiguously to relevant people including external stakeholders if appropriate.	The organisation's safety and environment management team. The team with overall responsibility for the management of the assets. People who have appointed roles within the asset-related investigation procedure, from those who carry out the investigations to senior management who review the recommendations. Operational controllers responsible for managing the asset base under fault conditions and maintaining services to consumers. Contractors and other third parties as appropriate.	Process(es) and procedure(s) for the handling, investigation and mitigation of asset-related failures, incidents and emergency situations and non conformances. Documentation of assigned responsibilities and authority to employees. Job Descriptions, Audit reports. Common communication systems i.e. all Job Descriptions on Internet etc.
105	Audit	What has the organisation done to establish procedure(s) for the audit of its asset management system (process(es))?				This question seeks to explore what the organisation has done to comply with the standard practice AM audit requirements (eg, the associated requirements of PAS 55 s 4.6.4 and its linkages to s 4.7).	The management team responsible for its asset management procedure(s). The team with overall responsibility for the management of the assets. Audit teams, together with key staff responsible for asset management. For example, Asset Management Director, Engineering Director. People with responsibility for carrying out risk assessments	The organisation's asset-related audit procedure(s). The organisation's methodology(s) by which it determined the scope and frequency of the audits and the criteria by which it identified the appropriate audit personnel. Audit schedules, reports etc. Evidence of the procedure(s) by which the audit results are presented, together with any subsequent communications. The risk assessment schedule or risk registers.

<div style="text-align: right;"> Company Name _____ AMP Planning Period _____ Asset Management Standard Applied _____ </div> SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)							
Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
91	Life Cycle Activities	How does the organisation ensure that process(es) and/or procedure(s) for the implementation of asset management plan(s) and control of activities during maintenance (and inspection) of assets are sufficient to ensure activities are carried out under specified conditions, are consistent with asset management strategy and control cost, risk and	The organisation does not have process(es)/procedure(s) in place to control or manage the implementation of asset management plan(s) during this life cycle phase.	The organisation is aware of the need to have process(es) and procedure(s) in place to manage and control the implementation of asset management plan(s) during this life cycle phase but currently do not have these in place and/or there is no mechanism for confirming they are effective and where needed modifying them.	The organisation is in the process of putting in place process(es) and procedure(s) to manage and control the implementation of asset management plan(s) during this life cycle phase. They include a process for confirming the process(es)/procedure(s) are effective and if necessary carrying out modifications.	The organisation has in place process(es) and procedure(s) to manage and control the implementation of asset management plan(s) during this life cycle phase. They include a process, which is itself regularly reviewed to ensure it is effective, for confirming the process(es)/ procedure(s) are effective and if necessary carrying out modifications.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
95	Performance and condition monitoring	How does the organisation measure the performance and condition of its assets?	The organisation has not considered how to monitor the performance and condition of its assets.	The organisation recognises the need for monitoring asset performance but has not developed a coherent approach. Measures are incomplete, predominantly reactive and lagging. There is no linkage to asset management objectives.	The organisation is developing coherent asset performance monitoring linked to asset management objectives. Reactive and proactive measures are in place. Use is being made of leading indicators and analysis. Gaps and inconsistencies remain.	Consistent asset performance monitoring linked to asset management objectives is in place and universally used including reactive and proactive measures. Data quality management and review process are appropriate. Evidence of leading indicators and analysis.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
99	Investigation of asset-related failures, incidents and nonconformities	How does the organisation ensure responsibility and the authority for the handling, investigation and mitigation of asset-related failures, incidents and emergency situations and non conformances is clear, unambiguous, understood and communicated?	The organisation has not considered the need to define the appropriate responsibilities and the authorities.	The organisation understands the requirements and is in the process of determining how to define them.	The organisation are in the process of defining the responsibilities and authorities with evidence. Alternatively there are some gaps or inconsistencies in the identified responsibilities/authorities.	The organisation have defined the appropriate responsibilities and authorities and evidence is available to show that these are applied across the business and kept up to date.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
105	Audit	What has the organisation done to establish procedure(s) for the audit of its asset management system (process(es))?	The organisation has not recognised the need to establish procedure(s) for the audit of its asset management system.	The organisation understands the need for audit procedure(s) and is determining the appropriate scope, frequency and methodology(s).	The organisation is establishing its audit procedure(s) but they do not yet cover all the appropriate asset-related activities.	The organisation can demonstrate that its audit procedure(s) cover all the appropriate asset-related activities and the associated reporting of audit results. Audits are to an appropriate level of detail and consistently managed.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

<div style="display: flex; justify-content: space-between;"> SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont) <div style="border: 1px solid black; padding: 2px;"> Company Name AMP Planning Period Asset Management Standard Applied </div> </div>								
Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/document Information
109	Corrective & Preventative action	How does the organisation instigate appropriate corrective and/or preventive actions to eliminate or prevent the causes of identified poor performance and non conformance?				Having investigated asset related failures, incidents and non-conformances, and taken action to mitigate their consequences, an organisation is required to implement preventative and corrective actions to address root causes. Incident and failure investigations are only useful if appropriate actions are taken as a result to assess changes to a businesses risk profile and ensure that appropriate arrangements are in place should a recurrence of the incident happen. Widely used AM standards also require that necessary changes arising from preventive or corrective action are made to the asset management system.	The management team responsible for its asset management procedure(s). The team with overall responsibility for the management of the assets. Audit and incident investigation teams. Staff responsible for planning and managing corrective and preventive actions.	Analysis records, meeting notes and minutes, modification records. Asset management plan(s), investigation reports, audit reports, improvement programmes and projects. Recorded changes to asset management procedure(s) and process(es). Condition and performance reviews. Maintenance reviews
113	Continual Improvement	How does the organisation achieve continual improvement in the optimal combination of costs, asset related risks and the performance and condition of assets and asset systems across the whole life cycle?				Widely used AM standards have requirements to establish, implement and maintain process(es)/procedure(s) for identifying, assessing, prioritising and implementing actions to achieve continual improvement. Specifically there is a requirement to demonstrate continual improvement in optimisation of cost risk and performance/condition of assets across the life cycle. This question explores an organisation's capabilities in this area—looking for systematic improvement mechanisms rather than reviews and audit (which are separately examined).	The top management of the organisation. The manager/team responsible for managing the organisation's asset management system, including its continual improvement. Managers responsible for policy development and implementation.	Records showing systematic exploration of improvement. Evidence of new techniques being explored and implemented. Changes in procedure(s) and process(es) reflecting improved use of optimisation tools/techniques and available information. Evidence of working parties and research.
115	Continual Improvement	How does the organisation seek and acquire knowledge about new asset management related technology and practices, and evaluate their potential benefit to the organisation?				One important aspect of continual improvement is where an organisation looks beyond its existing boundaries and knowledge base to look at what 'new things are on the market'. These new things can include equipment, process(es), tools, etc. An organisation which does this (eg, by the PAS 55 s 4.6 standards) will be able to demonstrate that it continually seeks to expand its knowledge of all things affecting its asset management approach and capabilities. The organisation will be able to demonstrate that it identifies any such opportunities to improve, evaluates them for suitability to its own organisation and implements them as appropriate. This question explores an organisation's approach to this activity.	The top management of the organisation. The manager/team responsible for managing the organisation's asset management system, including its continual improvement. People who monitor the various items that require monitoring for 'change'. People that implement changes to the organisation's policy, strategy, etc. People within an organisation with responsibility for investigating, evaluating, recommending and implementing new tools and techniques, etc.	Research and development projects and records, benchmarking and participation knowledge exchange professional forums. Evidence of correspondence relating to knowledge acquisition. Examples of change implementation and evaluation of new tools, and techniques linked to asset management strategy and objectives.

<div style="text-align: right; margin-bottom: 5px;"> Company Name <input style="width: 150px;" type="text"/> AMP Planning Period <input style="width: 150px;" type="text"/> Asset Management Standard Applied <input style="width: 150px;" type="text"/> </div> SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)							
Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
109	Corrective & Preventative action	How does the organisation instigate appropriate corrective and/or preventive actions to eliminate or prevent the causes of identified poor performance and non conformance?	The organisation does not recognise the need to have systematic approaches to instigating corrective or preventive actions.	The organisation recognises the need to have systematic approaches to instigating corrective or preventive actions. There is ad-hoc implementation for corrective actions to address failures of assets but not the asset management system.	The need is recognized for systematic instigation of preventive and corrective actions to address root causes of non compliance or incidents identified by investigations, compliance evaluation or audit. It is only partially or inconsistently in place.	Mechanisms are consistently in place and effective for the systematic instigation of preventive and corrective actions to address root causes of non compliance or incidents identified by investigations, compliance evaluation or audit.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
113	Continual Improvement	How does the organisation achieve continual improvement in the optimal combination of costs, asset related risks and the performance and condition of assets and asset systems across the whole life cycle?	The organisation does not consider continual improvement of these factors to be a requirement, or has not considered the issue.	A Continual Improvement ethos is recognised as beneficial, however it has just been started, and or covers partially the asset drivers.	Continuous improvement process(es) are set out and include consideration of cost risk, performance and condition for assets managed across the whole life cycle but it is not yet being systematically applied.	There is evidence to show that continuous improvement process(es) which include consideration of cost risk, performance and condition for assets managed across the whole life cycle are being systematically applied.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
115	Continual Improvement	How does the organisation seek and acquire knowledge about new asset management related technology and practices, and evaluate their potential benefit to the organisation?	The organisation makes no attempt to seek knowledge about new asset management related technology or practices.	The organisation is inward looking, however it recognises that asset management is not sector specific and other sectors have developed good practice and new ideas that could apply. Ad-hoc approach.	The organisation has initiated asset management communication within sector to share and, or identify 'new' to sector asset management practices and seeks to evaluate them.	The organisation actively engages internally and externally with other asset management practitioners, professional bodies and relevant conferences. Actively investigates and evaluates new practices and evolves its asset management activities using appropriate developments.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

Schedule 14 Mandatory Explanatory Notes

1. This ~~S~~schedule requires GTBs to provide explanatory notes to information provided in accordance with clauses 2.3.1, 2.4.20, ~~and subclause 2.5.1(1)(e) 2.5.1 and clause 2.12.2.~~
2. This ~~S~~schedule is mandatory—GTBs must provide the explanatory comment specified below, in accordance with clause 2.7.1. Information provided in boxes 1 to 12 ~~and 17~~ of this schedule is part of the audited disclosure information, and so is subject to the assurance requirements specified in section 2.8.
3. Schedule 15 (Voluntary Explanatory Notes to Schedules) provides for GTBs to give additional explanation of disclosed information should they elect to do so.

Mandatory explanatory notes

Return on Investment (Schedule 2)

4. In the box below, comment on return on investment as disclosed in Schedule 2. This comment must include information on reclassified items in accordance with [sub](#)clause 2.7.1(2).

Box 1: Explanatory comment on return on investment
[Insert text here]

Regulatory Profit (Schedule 3)

5. In the box below, comment on regulatory profit for the disclosure year as disclosed in Schedule 3. This comment must include-
 - 5.1 a description of material items included in 'other regulatory ~~line~~ income' other than ~~gains / (losses) on asset disposals~~ ~~gains and losses on asset sales~~, as disclosed in Schedule 3(i)
 - 5.2 information on reclassified items in accordance with [sub](#)clause 2.7.1(2).

Formatted: Font: Not Bold

Box 2: Explanatory comment on regulatory profit
[Insert text here]

Merger and acquisition expenses (3(iv) of Schedule 3(iv))

6. If the GTB incurred merger and acquisitions expenditure during the disclosure year, provide the following information in the box below-

6.1 information on reclassified items in accordance with [sub](#)clause 2.7.1(2)

6.2 any other commentary on the benefits of the merger and acquisition expenditure to the GTB.

Box 3: Explanatory comment on merger and acquisition expenditure

[Insert text here]

Value of the Regulatory Asset Base (Schedule 4)

7. In the box below, comment on the value of the regulatory asset base (rolled forward) in Schedule 4. This comment must include information on reclassified items in accordance with [sub](#)clause 2.7.1(2).

Box 4: Explanatory comment on the value of the regulatory asset based (rolled forward)

[Insert text here]

Regulatory tax allowance: disclosure of permanent differences (5a(i) of Schedule 5a(i))

8. In the box below, provide descriptions and workings ~~of the~~ [of the material permanent differences included in the](#) following items, as recorded in the asterisked categories in [5a\(i\)](#) of Schedule 5a(i):-

8.1 Income not included in regulatory profit / (loss) before tax but taxable

8.2 Expenditure or loss in regulatory profit / (loss) before tax but not deductible

8.3 [Other](#) ~~fi~~ income included in regulatory profit / (loss) before tax but not taxable

8.4 Expenditure or loss deductible but not in regulatory profit / (loss) before tax

Box 5: Regulatory tax allowance: permanent differences

[Insert text here]

Regulatory tax allowance: disclosure of temporary differences (5a(i) of Schedule 5a(##))

~~9.~~ 9. In the box below, provide descriptions and workings of ~~items~~ the material temporary differences included in the following items, as recorded in the asterisked categories ~~y 'Tax effect of other temporary differences'~~ in 5a(i) of Schedule 5a(ii):

9.1 Income not included in regulatory profit / (loss) before tax but taxable

9.2 Expenditure or loss in regulatory profit / (loss) before tax but not deductible

9.3 Other income included in regulatory profit / (loss) before tax but not taxable

~~8-59.~~4 Expenditure or loss deductible but not in regulatory profit / (loss) before tax

Box 6: Temporary differences

[Insert text here]

Related party transactions: disclosure of related party transactions (Schedule 5b)

~~9-10.~~ 9-10. In the box below, provide descriptions of related party transactions beyond those disclosed in Schedule 5b including identification and descriptions as to the nature of directly attributable costs disclosed under subclause 2.3.7(2)(b).

Box 7: Related party transactions

[Insert text here]

Cost allocation (Schedule 5d)

~~10-11.~~ 10-11. In the box below, comment on cost allocation as disclosed in Schedule 5d. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

Box 8: Cost allocation

[Insert text here]

Asset allocation (Schedule 5e)

~~11.12.~~ In the box below, comment on asset allocation as disclosed in Schedule 5e. This comment must include information on reclassified items in accordance with [subclause 2.7.1\(2\)](#).

Box 9: Commentary on asset allocation

[Insert text here]

Capital Expenditure for the Disclosure Year (Schedule 6a)

~~12.13.~~ In the box below, comment on ~~capital~~-expenditure [on assets](#) for the disclosure year, as disclosed in Schedule 6a. This comment must include-

~~12.13.1~~ a description of the materiality threshold applied to identify material projects and programmes described in Schedule 6a;

~~12.13.2~~ information on reclassified items in accordance with [subclause 2.7.1\(2\)](#)

Box 10: Explanation of capital expenditure for the disclosure year

[Insert text here]

Operational Expenditure for the Disclosure Year (Schedule 6b)

~~13.14.~~ In the box below, comment on operational expenditure for the disclosure year, as disclosed in Schedule 6b. This comment must include-

~~13.14.1~~ Commentary on assets replaced or renewed with asset replacement and renewal ~~operational~~ expenditure, as reported Schedule 6b(i)

~~13.14.2~~ Information on reclassified items in accordance with [subclause 2.7.1\(2\)](#)

~~13.14.3~~ Commentary on any material atypical expenditure included in operational expenditure disclosed in Schedule 6b, a including the value of the expenditure the purpose of the expenditure, and the operational expenditure categories the expenditure relates to.

Box 11: Explanation of operational expenditure for the disclosure year

[Insert text here]

Variance between forecast and actual expenditure (Schedule 7)

~~14.~~15. In the box below, comment on variance in actual to forecast expenditure for the disclosure year, as reported in Schedule 7. This comment must include information on reclassified items in accordance with [subclause 2.7.1\(2\)](#).

Box 12: Explanatory comment on variance in actual to forecast expenditure

[Insert text here]

Information relating to revenues and quantities for the disclosure year

~~15.~~16. In the box below, please explain reasons for any material differences between target revenue disclosed before the start of the pricing year in accordance with clauses 2.4.1 and [subclause 2.4.3\(3\)](#), and total billed line charge revenue for the disclosure year as disclosed in Schedule 8.

Box 13: Explanatory comment relating to revenue for the disclosure year

[Insert text here]

~~16.~~17. If prices or price category codes (as applicable) have been changed in a disclosure year, please explain in the box below the effect of this on the allocation of quantities and revenues between connection types or contract types (as applicable) disclosed in Schedule 8.

Box 14: Explanatory comment relating to changed prices or price category codes

[Insert text here]

Network Reliability for the Disclosure Year (Schedule 10a)

| ~~17-18.~~ In the box below, comment on network reliability for the disclosure year, as disclosed in Schedule 10a.

Box 15: Commentary on network reliability for the disclosure year
[Insert text here]

Insurance cover

~~18.19.~~ In the box below, provide details of any insurance cover for the assets, including-

~~18.19.1~~ The GTB's approaches and practices in regard to the insurance of assets, including the level of insurance;

~~18.219.2~~ In respect of any self insurance, the level of reserves, details of how reserves are managed and invested, and details of any reinsurance.

Box 16: Explanation of insurance cover

[Insert text here]

Amendments to previously disclosed information

20. In the box below, provide details of any material error identified in previously disclosed information. This disclosure must include the information on previously disclosed information in accordance with 2.12.2.

Box 17: Disclosure of amendment to previously disclosed information

[Insert text here]

Schedule 14a Mandatory Explanatory Notes on Forecast Information

1. This Schedule requires GTBs to provide explanatory notes to reports prepared in accordance with clause [2.6.5](#).
2. This Schedule is mandatory. GTBs must provide the explanatory comment specified below, in accordance with clause 2.7.2. This information is not part of the audited disclosure information, and so is not subject to the assurance requirements specified in section 2.8.

Commentary on difference between nominal and constant price capital expenditure forecasts (Schedule 11a)

3. In the box below, comment on the difference between nominal and constant price capital expenditure for the [current](#) disclosure year [and the 10 year planning period](#), as disclosed in Schedule 11a.

Box 1: Commentary on difference between nominal and constant price capital expenditure forecasts
[Insert text here]

Commentary on difference between nominal and constant price operational expenditure forecasts (Schedule 11b)

4. In the box below, comment on the difference between nominal and constant price operational expenditure for the [current](#) disclosure year [and the 10 year planning period](#), as disclosed in Schedule 11b.

Box 2: Commentary on difference between nominal and constant price operational expenditure forecasts
[Insert text here]

Schedule 14b—Mandatory Explanatory Notes on Transitional Financial Information

1. This Schedule provides for GTBs to provide explanatory notes to the transitional financial information disclosed in accordance with clauses 2.12.1 and 2.12.5.
2. This Schedule is mandatory—GTBs must provide the explanatory comment specified below, in accordance with clause 2.7.1. This information is part of the audited disclosure information, and so is subject to the assurance requirements specified in section 2.8.

Initial RAB adjustment (Schedule 5h)

3. In the box below, comment on adjustments to the initial RAB as disclosed in Schedule 5h.

Box 5: Commentary on adjustments to the initial RAB

[Insert text here]

Tax effect of other temporary differences

4. In the box below provide explanatory comment on the tax effect of other temporary differences for the disclosure years ending 2010, 2011, and 2012 (as reported in Schedule 4d(vi)).

Box 2: Commentary on tax effect of other temporary differences (disclosure years 2010, 2011, and 2012)

[Insert text here]

Related party transactions (Vector)

5. For Vector, to the extent that any change in regulatory profit and ROI reported for 2013 (compared to that reported for 2012) is attributable to the change in treatment of related party transactions, provide an explanation of the change in the box below.

Box 2: Change in regulatory profit and ROI due to change in treatment of related party transactions

[Insert text here]

Asset allocation (transitional)

6. — In the box below, comment on asset allocation as disclosed in Schedule 5e. This comment must include information on reclassified items in accordance with clause 2.7.1(2) for disclosure years 2011 and 2012.

Box 3: Commentary on asset allocation

[Insert text here]

Schedule 15 Voluntary Explanatory Notes

1. This [Schedule](#) enables GTBs to provide, should they wish to-
 - 1.1 additional explanatory comment to reports prepared in accordance with clauses 2.3.1, 2.4.20, 2.5.1, [and 2.5.2, and 2.6.5](#);
 - 1.2 information on any substantial changes to information disclosed in relation to a prior disclosure year, as a result of final wash-ups.
2. Information in this [Schedule](#) is not part of the audited disclosure information, and so is not subject to the assurance requirements specified in section 2.8.
3. Provide additional explanatory comment in the box below.

Box 1: Voluntary explanatory comment on disclosed information

[Insert text below]

Schedule 16 Definitions of Terms used in Schedules 1 to 15

1. [This schedule provides definitions for terms used in Schedules 1 to 15 of this determination.](#)
2. [Where terms used in the schedules are defined in section 1.4 of this determination but are not defined below, they have the meanings set out in section 1.4 of this determination. Terms used in the schedules that are defined in the IM determination have the meanings set out in the IM determination. Otherwise, unless defined below, terms used in the schedules have meanings consistent with industry practice.](#)

Formatted: Outline numbered + Level: 1 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 0 cm + Tab after: 1.25 cm + Indent at: 1.25 cm

Term	Definition
% of asset forecast to be replaced in next 5 years	means the % of asset quantity forecast to be replaced in next 5 years consistent with the capital expenditure forecast
% variance	means- $q = \frac{a - b}{b} \times 100$ where: <i>a</i> = actual expenditure <i>b</i> = forecast expenditure
2009 authorisation assets	has the meaning set out in the IM determination
2009 disclosed assets	has the meaning set out in the IM determination
25th percentile estimate	means the 25th percentile estimate for the range of the mid-point post tax WACC or mid-point vanilla WACC determined by the Commission in accordance with clause 2.4.7 of the IM determination
75th percentile estimate	means the 75th percentile estimate for the range of the mid-point post tax WACC or mid-point vanilla WACC determined by the Commission in accordance with clause 2.4.7 of the IM determination
Actual controllable opex	has the meaning given set out in the IM determination
Actual expenditure	means, in relation to- (a) a disclosure year, expenditure for that disclosure year (b) the regulatory period, expenditure for the disclosure years from the start of the regulatory period to the current disclosure year
Adjusted depreciation	has the meaning set out in the IM determination

<p>Adjustment resulting from asset allocation</p>	<p>means-</p> <p>(a) in relation to the works under construction roll-forward, the change in works under construction resulting from a change in asset allocation assumptions for assets included in works under construction, where increases in the value of works under construction are positive and decreases are negative</p> <p><u>(b) in relation to the regulatory tax asset base roll-forward, the change in sum of regulatory tax asset values resulting from a change in asset allocation assumptions for assets included in sum of regulatory tax asset values, where increases in the value of sum of regulatory tax asset values are positive and decreases are negative</u></p> <p>(b)(c) in all other instances, the value of q calculated using the following formula-</p> $q = a - (b - c + d + e - f + g)$ <p>where-</p> <p>a = total closing RAB value b = total opening RAB value c = total depreciation d = total CPI-revaluations e = assets commissioned f = asset disposals g = lost and found assets adjustment</p> <p>The formula must be calculated using component values that relate to the RAB. These component values are the values that result from the application of clause 2.1.1 of the IM determination</p>
<p><u>Adjustment to reinstate 2009 modified asset values to unallocated amounts</u></p>	<p><u>means the value of the adjustment required to the 2009 modified asset values so the resultant value represents the unallocated 2009 modified asset values</u></p>
<p>All other projects or programmes</p>	<p>means, within an expenditure category, the total of projects and programmes that are not material projects and programmes.</p>
<p>Allocator metric</p>	<p>has the meaning <u>given set out</u> in the IM determination</p>
<p>Allocator type</p>	<p>has the meaning <u>given set out</u> in the IM determination</p>
<p>Allowed controllable opex</p>	<p>has the meaning <u>given set out</u> in the IM determination</p>
<p>Arm's-length deduction</p>	<p>has the meaning <u>given set out</u> in the IM determination</p>

Assets acquired from a regulated supplier	<p>means-</p> <p>(a) in relation to the unallocated RAB, the sum of value of assets acquired from another regulated supplier as determined in accordance with clause 2.2.11(1)(e) of the IM determination;</p> <p>(b) in relation to the RAB, the sum of value of the assets (as determined in accordance with paragraph (a)) which is allocated to the gas transmission services in accordance with clause 2.1.1 of the IM determination</p>
Asset age	<p>means, in relation to the asset age disclosure requirements in Schedule 16, the number of assets at the end of the most recent disclosure year excluding stores and spares, categorised by asset class and the disclosure year in which the asset was originally commissioned on the network. If the original year in which the asset was commissioned is not known, then</p> <ul style="list-style-type: none"> • the commissioning year categorisation may be made using- <ul style="list-style-type: none"> ○ an estimated commissioning date (the use of estimates should be reflected in the data accuracy rating disclosed in the column 'data accuracy') ○ a default date (the number of assets for which default dates are used is to be disclosed in the column "No. with default dates") • the asset is not categorised by commissioning date (the number of assets not categorised by commissioning date is entered in the "No. with age unknown" column)
Asset category transfers	means the value of an asset transferred between asset categories
Asset condition at end of year (percentage by grade) start of planning period (percentage of units by grade)	means the proportion of the quantity of each asset class assessed against the asset condition categories (grade 1 to 4), reflecting the likelihood of short, medium or longer term intervention. Suppliers are able to apply their own criteria for intervention when populating the table
Asset disposals	<p>means-</p> <p>(a) in relation to the unallocated RAB, the sum of unallocated opening RAB values less regulatory depreciation of disposed assets, as determined in accordance with input methodologies applicable to that asset in the IM determination;</p> <p>(b) in relation to the RAB, the value (as determined in accordance with paragraph (a)) which was allocated to gas transmission services in accordance with clause 2.1.1 of the IM determination</p>
Asset disposals (other than below)	means asset disposals other than asset disposals to a regulated supplier and asset disposals to a related party
Asset disposals to a regulated supplier	means asset disposals disposed of to a regulated supplier
Asset disposals to a related party	means asset disposals disposed of to a related party

<p>Assets or assets with changes to depreciation</p>	<p>means a description of assets or groups of assets where the supplier has changed the asset(s)' depreciation profile or the asset(s) was commissioned during the disclosure year; and at least one of the following applies-</p> <ul style="list-style-type: none"> (a) the asset(s) is a reduced life asset or dedicated asset(s) as those terms are used in clause 2.2.8(5) of the IM Ddetermination (b) the asset(s) depreciation profile was changed or set in accordance with the CPP process (c) the asset(s) physical service life potential was determined by an engineer in accordance with clause 2.2.8(35) of the IM Ddetermination (d) the GTB chooses to disclose details about the asset(s) depreciation profile <p>the asset is a composite asset (as that term is used in clause 2.2.8(5) of the IM Ddetermination) and at least one of the clauses (a) to (d) above applies to one of its component assets</p>
<p>Assets acquired from a regulated supplier</p>	<p>means-</p> <ul style="list-style-type: none"> (a) in relation to the unallocated RAB, the sum of value of assets acquired from another regulated related party supplier as determined in accordance with clauses 2.2.11(1)(e)f and (g) of the IM determination; (b) in relation to the RAB, means the sum of value of the assets (as determined in accordance with paragraph (a)) which is allocated to the gas transmission services in accordance with clause 2.1.1 of the IM determination
<p><u>Assets acquired from a related party</u></p>	<p><u>means-</u></p> <ul style="list-style-type: none"> <u>(a) in relation to the unallocated RAB, the sum of value of assets acquired from a related party as determined in accordance with clauses 2.2.11(1)(f) and (g) of the IM determination;</u> <u>(b) in relation to the RAB, the sum of value of the assets (as determined in accordance with paragraph (a)) which is allocated to the gas transmission services in accordance with clause 2.1.1 of the IM determination</u>
<p>Assets commissioned (other than below)</p>	<p>means assets commissioned other than assets acquired from a regulated supplier and assets acquired from a related party</p>
<p>Assets or assets with changes to depreciation</p>	<p>means a description of assets or groups of assets where the supplier has changed the asset(s)' depreciation profile or the asset(s) was commissioned during the disclosure year; and at least one of the following applies-</p> <ul style="list-style-type: none"> (e) the asset(s) is a reduced life asset or dedicated asset(s) as those terms are used in clause 2.2.8(5) of the IM Determination (f) the asset(s) depreciation profile was changed or set in accordance with the CPP process (g) the asset(s) physical service life potential was determined by an engineer in accordance with clause 2.2.8(5) of the IM Determination (h) the GTB chooses to disclose details about the asset(s) depreciation profile <p>the asset is a composite asset (as that term is used in clause 2.2.8(5) of the IM Determination) and at least one of the clauses (a) to (d) above applies to one of its component assets</p>

Attribution rate	<p>means-</p> $q = \frac{a \times b}{c}$ <p>where: <i>a</i> = average opening and closing RAB values <i>b</i> = a leverage rate of 44% <i>c</i> = total book value of interest bearing debt</p>
Atypical expenditure	means expenditure on non-network assets that are 'one-off' or 'exceptional'
Average opening and closing RAB values	<p>means-</p> $q = \frac{a + b}{2}$ <p>where: <i>a</i> = opening RAB value <i>b</i> = closing RAB value</p>
Balancing gas costs	means a cost or credit specified in clause 3.1.3(1)(c) of the IM determination
Basis for determining value	means the subclause applied in valuing basis for determining the value of the related party transactions in accordance with clause 2.3.6 and 2.3.7 of this determination
Billed quantities	means the quantities associated with price components upon which the consumer's bill for gas transmission services is based, expressed in the units of measure used by the GTB for setting prices (for example volumes of gas delivered in GJ).
Book value	<p>means-</p> <p>(a) in relation to the issue date, the book value in New Zealand dollars of a qualifying debt or non-qualifying debt on the issue date</p> <p>(b) in relation to the date of financial statements, the book value in New Zealand dollars of a qualifying debt or non-qualifying debt as at the end of the period of the GTB's latest general purpose financial statements</p>
Business support	<p>in relation to expenditure, means operational expenditure associated with the following corporate activities-</p> <ul style="list-style-type: none"> • HR and training (other than operational training) • finance and regulation including compliance activities, valuations and auditing • CEO and director costs • legal services • consulting services (excluding engineering/technical consulting) • property management • corporate communications • corporate IT • industry liaison and participation • commercial activities including pricing, billing, revenue collection and marketing • liaison with shippers and welded parties

Capital contributions funding asset relocations	means the value of capital contributions that are paid to the GTB in relation to asset relocation expenditure
Capital contributions funding asset replacement and renewal	means the value of capital contributions that are paid to the GTB in relation to asset replacement and renewal expenditure
Capital contributions funding consumer connection	means the value of capital contributions that are paid to the GTB in relation to consumer connection expenditure
Capital contributions funding legislative and regulatory	means the value of capital contributions that are paid to the GTB in relation to legislative and regulatory expenditure
Capital contributions funding other reliability, safety and environment	means the value of capital contributions that are paid to the GTB in relation to other reliability, safety and environment expenditure
Capital contributions funding quality of supply	means the value of capital contributions that are paid to the GTB in relation to quality of supply expenditure
Capital contributions funding system growth	means the value of capital contributions that are paid to the GTB in relation to system growth expenditure
Cathodic protection	means a system that inhibits the corrosion of a metallic gas pipe by means of an impressed current or sacrificial anodes.
Change in Line Pack (TJ)	means the change in Line Pack during the disclosure year where increases in Line Pack are positive and decreases negative. For the purposes of this definition, Line Pack means the total quantity of gas in the pipeline at any time. Expressed in TJ.
Chromatographs	means a device for measuring the chemical composition of gas at a particular point on the transmission system for the purposes of measuring calorific value and other properties
Closing RAB (tax value)	means the sum of regulatory tax assets that values for assets have a value included in total closing RAB value
Closing RAB value under 'non-standard' depreciation	means the closing RAB value or sum of closing RAB values as determined in accordance with Part 2 subpart 2 of the IM determination for the relevant asset or assets with non-standard depreciation
Closing RAB value under 'standard' depreciation	means- <ul style="list-style-type: none"> (a) in relation to assets or groups of assets where depreciation is included in depreciation - no standard life asset, 'not applicable' (b) in relation to assets or groups of assets where depreciation is included in depreciation - modified life assets or depreciation - alternative depreciation determined in accordance with CPP, the sum of closing RAB values as determined in accordance with the IM determination as if the closing RAB value and all preceding closing RAB values had been calculated in accordance with clause 2.1.1 of the IM determination applying a physical asset life determined in accordance with either clause 2.2.8(e)(iii) or (f) of the IM determination for the relevant asset or assets with non-standard depreciation

Closing RIV	means total closing RAB values less adjustment resulting from cost asset allocation less lost and found assets adjustment
Closing sum of regulatory tax asset values RAB (tax value)	means the sum of regulatory tax asset values that values for assets that have a value included in total closing RAB value plus the regulatory tax asset values of assets referred to in clause 2.3.6(4)(b) of the IM determination
Closing tax losses	has the meaning given to that term in clause 2.3.2(4) of the IM determination
Coalescers	means a vessel to coalesce any liquid entrained in the gas and typically incorporates filtration to remove solid contaminants as well as liquid
Commerce Act levies	means a cost specified in clause 3.1.2(2)(b)(i) of the IM determination
Compressor fuel	in relation to expenditure, means operational expenditure where the primary driver is the consumption of natural gas by the compressor fleet.
Compressor stations	means a station where a compressor is present and can be used to increase the pressure of gas flowing in the pipe
Compressors	means the prime mover (engine or turbine), the compressor, the control system and the ancillaries
Confirmed public reported escapes of gas	means any escape of gas confirmed by the GTB excluding third party damage events, routine surveys find and no traces events
Connection type	means a category of connections as defined by the GTB that describes the customers connected to the network. This may refer to categories used for pricing, physical connection attributes or any other attribute that the GTB considers appropriate (a) in relation to Schedule 8(i), a category of connections as defined by the GTB that describes a type of offtake point connection; and (b) in relation to Schedule 9d, a category of connections as defined by the GTB that describes a type of injection point or type of offtake point connection. These categories should refer to physical connection attributes, or pricing groups, or any other attribute that provides a similar level of disaggregation that will assist interested party analysis.
Consumer type	means a category of consumers as defined by the GTB that is typical of the type of consumers connected to the network. This may refer to categories used for pricing, physical connection attributes or any other attribute that the GTB considers appropriate
Corporate tax rate	has the meaning given set out in the IM determination
Cost of debt assumption	means the sum of the risk free rate, and debt premium estimates and debt issuance costs as published by the Commission in accordance with clauses 2.4.1 to 2.4.11 of the IM determination for each disclosure year
Cost of executing an interest rate swap	has the meaning given set out in the IM determination

Coupon rate	means- (a) where the information is available publicly, the nominal coupon rate of interest of a qualifying debt on the issue date; (b) where the nominal coupon rate of interest of a qualifying debt on the issue date is not available publicly, either the nominal coupon rate of interest or the basis for determining the nominal coupon rate of interest of a qualifying debt on the issue date
CPI ₄	has the meaning given set out in clause 2.2.9(4) of the IM determination
CPI ₄ ⁻⁴	has the meaning given set out in clause 2.2.9(4) of the IM determination
CPP specified pass through costs	means a cost specified in clause 3.1.2(1)(b)(ii) of the IM determination
Current period tax losses	has the meaning given to that term in clause 2.3.2(5) of the IM determination
Data accuracy (1-4)	means the GTB's assessment of the accuracy of the data provided, using one of the following options- 1 – means that good quality data is not available for any of the assets in the category and estimates are likely to contain significant error 2 – means that good quality data is available for some assets but not for others and the data provided includes estimates of uncounted assets within the category 3 – means that data is available for all assets but includes a level of estimation where there is understood to be some poor quality data for some of the assets within the category 4 – means that good quality data is available for all of the assets in the category
Debt issue cost readjustment	has the meaning given set out in clause 2.4.11(4) of the IM determination
Depreciation - alternative depreciation in accordance with CPP	means- (a) in relation to the unallocated RAB, the sum of unallocated depreciation calculated in accordance with clause 2.2.6 of the IM determination; (b) in relation to the RAB, depreciation calculated in accordance with clause 2.2.6 or 2.2.8(4) of the IM determination
Depreciation - modified life assets	means- (a) in relation to the unallocated RAB, the sum of unallocated depreciation calculated in accordance with clause 2.2.5(1) of the IM determination; (b) in relation to the RAB, depreciation calculated in accordance with clause 2.2.5(2) of the IM determination; of assets with a physical asset life determined in accordance with clauses 2.2.8(1)(b) or 2.2.8(2) of the IM determination or where clauses 2.2.8(1)(d) and 2.2.8(1)(e)(iv) of the IM determination apply with reference to assets with a physical asset life determined in accordance with clauses 2.2.8(1)(b) or 2.2.8(2) of the IM determination

Depreciation - no standard life assets	means- (a) in relation to the unallocated RAB, the sum of unallocated depreciation calculated in accordance with clause 2.2.5(1) of the IM determination; (b) in relation to the RAB, depreciation calculated in accordance with clause 2.2.5(2) of the IM determination; of assets with a physical asset life determined in accordance with clauses 2.2.8(1)(a) or 2.2.8(1)(d) or 2.2.8(1)(e)(iv)-(v) or 2.2.8(1)(g) of the IM determination or where clauses 2.2.8(1)(d) and 2.2.8(1)(e)(iv) of the IM determination apply with reference to assets with a physical asset life determined in accordance with clauses 2.2.8(1)(a) or 2.2.8(1)(d) or 2.2.8(1)(e)(iv)-(v) or 2.2.8(1)(g) of the IM determination
Depreciation - standard	means- (a) in relation to the unallocated RAB, the sum of unallocated depreciation calculated in accordance with clause 2.2.5(1) of the IM determination; (b) in relation to the RAB, depreciation calculated in accordance with clause 2.2.5(2) of the IM determination; excluding depreciation - alternative depreciation in accordance with CPP, depreciation - modified life assets, and depreciation - no standard life assets
Depreciation charge for the period (RAB)	means the depreciation or sum of depreciation as determined in accordance with the IM determination for the relevant asset or assets with non-standard depreciation
Description of transaction	means a brief description of the transaction with a related party, including the goods or services provided to or by the GTB as part of that transaction
Disposed asset	has the meaning given set out in paragraph (a) of the defined term in the IM determination
Easement land	has the meaning given set out in the IM determination
Estimated impact of financial incentives on ROI	means- $q = a - b$ where $a = \text{ROI} - \text{comparable to a vanilla WACC}$ $b = \text{ROI} - \text{comparable to a vanilla WACC (excluding financial incentives)}$
Expenditure on non-network assets	means expenditure on assets relating to non-network assets
Expenditure or loss deductible but not in regulatory profit / (loss) before tax – permanent	means- (a) <u>in relation to permanent differences</u> , -expenditure or loss deductible but not in regulatory profit / (loss) before tax as determined in accordance with clause 2.3.3(3)(b) of the IM determination (b) <u>in relation to temporary differences, expenditure or loss deductible but not in regulatory profit / (loss) before tax as determined in accordance with clause 2.3.5(5)(b) of the IM determination</u>
Expenditure or loss deductible but not in regulatory profit / (loss) before tax – temporary	means expenditure or loss deductible but not in regulatory profit / (loss) before tax as determined in accordance with clause 2.3.5(5)(b) of the IM determination

Expenditure or loss in regulatory profit / (loss) before tax but not deductible— <u>permanent</u>	means— <u>(a) in relation to permanent differences</u> , -expenditure or loss in regulatory profit / (loss) before tax but not deductible as determined in accordance with clause 2.3.3(2)(b) of the IM determination (a) <u>(b) in relation to temporary differences</u> , expenditure or loss in regulatory profit / (loss) before tax but not deductible as determined in accordance with clause 2.3.5(4)(b) of the IM determination
<u>Expenses cash outflow</u>	<u>means operational expenditure plus pass through and recoverable costs recognised in information disclosure</u>
<u>Expenditure or loss in regulatory profit / (loss) before tax but not deductible—temporary</u>	<u>means expenditure or loss in regulatory profit / (loss) before tax but not deductible as determined in accordance with clause 2.3.5(4)(b) of the IM determination</u>
<u>Expenses</u>	<u>means operational expenditure and pass through and recoverable costs accrued in each of the months of the disclosure year. Where costs are notional they should be recognised evenly over the months of the disclosure year</u>
<u>Financial incentives</u>	<u>means net recoverable costs allowed under incremental rolling incentive scheme</u>
Forecast expenditure	means, in relation to— (a) current disclosure year, the forecast expenditure for the current disclosure year disclosed pursuant to subclauses 2.6.5(1)2.6.5(1)(a) and 2.6.5(2)(b) of this determination immediately prior to the start of the current disclosure year (b) regulatory period, the forecast expenditure for the disclosure years from the start of the regulatory period to the current disclosure year disclosed pursuant to Part 5 of the IM determination where a CPP is in place for the current disclosure year or disclosed pursuant to subclauses 2.6.5(1)2.6.5(1)(a) and 2.6.5(2)(b) of this determination prior to the start of the disclosure year preceding the regulatory period where a CPP is not in place for the current disclosure year
<u>Gas entering the network (TJ)</u>	<u>means gas entering the network. This refers to injection volume. Expressed in TJ.</u>
<u>Gas entering the system (TJ)</u>	<u>means gas entering the transmission system. This refers to injection volume and intake volume. Expressed in TJ.</u>
<u>Number of customers</u>	<u>means number of billed customers</u>
<u>Gas deliveries by connected party (TJ)</u>	<u>means offtake volume expressed in TJ</u>
<u>GPB</u>	<u>means gas pipeline business and includes GDBs and GTBs</u>
<u>Gas entering system from other system owned by GTB (TJ)</u>	<u>means the difference between gas entering the system (TJ) and gas entering the network (TJ) for the relevant transmission system. Expressed in TJ.</u>

Gas used in compressor stations (TJ)	means gas used in the operation of compressor stations on the network. Expressed in TJ.
Gas used in heating systems (TJ)	means gas used in the operation of heating systems on the network. Expressed in TJ.
Grade 1	means the end of serviceable life, immediate intervention required
Grade 2	means material deterioration but asset condition still within serviceable life parameters. Intervention likely to be required within 3 years.
Grade 3	means normal deterioration requiring regular monitoring
Grade 4	means good or as new condition
Grade unknown	means condition unknown or not yet assessed
Gross term credit spread differential	means the sum of term credit spread difference, cost of executing an interest rate swap and debt issue cost readjustment for qualifying debt
GTB owned transmission system as received from	means the name of the GTB owned transmission system that the relevant transmission system received gas from
Heating system	means a facility for heating the gas flowing in a pipe.
Highest rate of capitalised finance applied	means the highest rate of finance used as the cost of financing capitalised in works under construction
Incident	means any event, including a near miss, that has the potential to impact on the delivery of gas transmission services or the operations of the GTB.
Income included in regulatory profit / (loss) before tax but not taxable— permanent	means— (a) in relation to permanent differences, -income included in regulatory profit / (loss) before tax but not taxable as determined in accordance with clause 2.3.3(3)(a) of the IM determination (a)(b) in relation to temporary differences, income included in regulatory profit / (loss) before tax but not taxable as determined in accordance with clause 2.3.5(5)(a) of the IM determination
Income included in regulatory profit / (loss) before tax but not taxable— temporary	means income included in regulatory profit / (loss) before tax but not taxable as determined in accordance with clause 2.3.5(5)(a) of the IM determination

Income not included in regulatory profit / (loss) before tax but taxable— permanent	means- (a) <u>in relation to permanent differences</u> , income not included in regulatory profit / (loss) before tax that is taxable as determined in accordance with clause 2.3.35(2)(a) of the IM determination (b) <u>in relation to temporary differences</u> , income not included in regulatory profit / (loss) before tax that is taxable as determined in accordance with clause 2.3.5(4)(a) of the IM determination
Income not included in regulatory profit / (loss) before tax but taxable— temporary	means income not included in regulatory profit / (loss) before tax that is taxable as determined in accordance with clause 2.3.5(4)(a) of the IM determination
Increase in value resulting from revaluations in accordance with 2.2.1(3)(b)	means the value of revaluations as determined in accordance with clause 2.2.1(3)(b) of the IM determination
Incremental gain/(loss) in year	means the incremental change or incremental adjustment term for the disclosure year determined in accordance with clause 3.3.1 of the IM determination
Industry levies	<u>means a cost specified in clauses 3.1.2(1)(b)(i) and 3.1.2(2)(b)(i)-(iii) of the IM determination</u>
Initial disclosure year	<u>means the disclosure year 2012</u>
Input methodology claw-back	<u>means a cost specified in clause 3.1.3(1)(b) of the IM determination</u>
Insurance	means a contract of insurance as defined in the Insurance (Prudential Supervision) Act 2010
IRR	<u>means internal rate of return</u>
Issue date	means the day on which a qualifying debt or non-qualifying debt is issued
Items at end of year (quantity)	means the total quantity of assets in the prescribed asset category and asset class installed in the network at the end of the disclosure year, expressed in the prescribed unit
Items at start of year (quantity)	means the total quantity of assets in the prescribed asset category and asset class installed in the network at the start of the disclosure year, expressed in the prescribed unit
Land management and associated activity	means operational expenditure where the primary driver is the management of land and associated activities involved in the maintenance of the pipeline route, and includes- <ul style="list-style-type: none"> land database (property owners, occupiers and other stakeholders)

	<ul style="list-style-type: none"> communications with landowners, occupiers and other stakeholders erosion management monitoring activities on or near the easement compensation and other associated legal costs
Leverage	has the meaning given set out in the IM determination
Levies	means a cost specified in clause 3.1.2(2)(b) of the IM determination
Line charge revenue	means revenue from prices
Line item	has the meaning given set out in the IM determination
Lost and found assets adjustment	<p>means-</p> <p>(a) — in relation to the unallocated RAB, the value of found assets as determined in accordance with clause 2.2.12 of the IM determination, less the value of lost assets. The value of a lost asset is the unallocated opening RAB value of the asset less regulatory depreciation as determined in accordance with the IM determination;</p> <p>(b) — in relation to the RAB, the value of the asset (as determined in accordance with paragraph (a)) which is allocated to gas transmission services in accordance with clause 2.1.1 of the IM determination</p>
Material projects and programmes	means projects or programmes with actual or forecast total expenditure greater than the materiality threshold that is developed and applied by the GTB
Market value of asset disposals	means the market value of disposed assets sold or transferred to a related party
Merger and acquisition expenditure	means expenditure related to merger and acquisition activities irrespective of the outcome of the merger or acquisition, but proportionate to the extent the benefits of the merger or acquisition would relate to gas transmission services. Disclosure of the benefits to gas transmission services is required for merger and acquisition expenses to be recognised
Metering system	means devices that measure and record the quantity of gas that has flowed through a point in a period of time and may additionally measure and record the rate of flow
Mid-point estimate of post tax WACC	means the mid-point estimate of post tax WACC for the 5 year period commencing on the first day of the disclosure year determined by the Commission in accordance with clause 2.4.1 Part 2, subpart 4 of the IM determination
Mid-point estimate of vanilla WACC	means the mid-point estimate of vanilla WACC for the 5 year period commencing on the first day of the disclosure year determined by the Commission in accordance with clause 2.4.1 of the IM determination
Mid-year net cash outflows	means expense cash outflow plus assets commissioned less asset disposals plus tax payments regulatory tax allowance less other regulated income
Mid-point estimate of post tax WACC	means the mid-point estimate of post tax WACC for the 5-year period commencing on the first day of the disclosure year determined by the Commission in accordance with Part 2, subpart 4 of the IM determination
Mixing stations	means a station where gases from different sources are mixed

Monthly ROI – closing RIV	means total closing RAB value less adjustment resulting from cost allocation less lost and found assets adjustment plus revenue related working capital														
Monthly net cash outflows	means expenses cash outflow plus assets commissioned less asset disposals less other regulated income														
Monthly ROI – comparable to a post-tax WACC	means the monthly ROI comparable to the vanilla WACC less the product of the cost of debt (%), the leverage and the corporate tax rate														
Monthly ROI – comparable to a vanilla WACC	<p>means-</p> $q = XIRR(values, dates)$ <p>where: <i>XIRR(values, dates)</i> is the excel function that returns an internal rate of return for a schedule of cash flows</p> <p>where the schedule of cash flows and timing are-</p> <table border="1"> <thead> <tr> <th>Values</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>- Opening RIV</td> <td>365 before year-end</td> </tr> <tr> <td>- Monthly net cash outflows</td> <td>15th of the month incurred</td> </tr> <tr> <td>Line charge revenue</td> <td>20th of the month following accrual</td> </tr> <tr> <td>- Regulatory tax allowance</td> <td>182 days before year-end</td> </tr> <tr> <td>- Term credit spread differential allowance</td> <td>Year-end</td> </tr> <tr> <td>Closing RIV</td> <td>Year-end</td> </tr> </tbody> </table> $q = (1 + \text{monthly IRR})^{12} - 1$ <p>where: monthly IRR = IRR (13 monthly amounts)</p> <p>where the 13 monthly amounts are-</p> <ul style="list-style-type: none"> the negative of alternative opening RIV the 11 end of month notional net cash flows for the first month to the eleventh month of the disclosure year notional net cash flows for the last month of the disclosure year plus alternative closing RIV less term credit spread differential allowance 	Values	Date	- Opening RIV	365 before year-end	- Monthly net cash outflows	15 th of the month incurred	Line charge revenue	20 th of the month following accrual	- Regulatory tax allowance	182 days before year-end	- Term credit spread differential allowance	Year-end	Closing RIV	Year-end
Values	Date														
- Opening RIV	365 before year-end														
- Monthly net cash outflows	15 th of the month incurred														
Line charge revenue	20 th of the month following accrual														
- Regulatory tax allowance	182 days before year-end														
- Term credit spread differential allowance	Year-end														
Closing RIV	Year-end														
Monthly ROI – opening RIV	means the sum of total opening RAB value plus revenue related working capital														
Most recent ID period	means the disclosure year immediately preceding the end of the consolidation period														
Name of related party	means the legal name of the related party that has entered into a transaction with the GTB.														
Net incremental rolling incentive scheme	means the sum of previous years' incremental gain/loss from the 5 disclosure years preceding the current disclosure year														

Net recoverable costs allowed under incremental rolling incentive scheme	means, where- (a) net incremental rolling incentive scheme is positive, net incremental rolling incentive scheme; (b) net incremental rolling incentive scheme is nil or negative, nil
Network	has the meaning given set out in the IM determination
Network opex	means the sum of operational expenditure relating to service interruptions, incidents and emergencies, routine and corrective maintenance and inspection, asset replacement and renewal, compressor fuel, and land management and associated activity
Network support	in respect of operational expenditure, means costs where the primary driver is the management of the network including- <ul style="list-style-type: none"> • asset management planning including preparation of the AMP, load forecasting, network modelling • network and engineering design (excluding design costs capitalised for capital projects) • network policy development (including the development of environmental, technical and engineering policies) • standards and manuals for network management • network record keeping and asset management databases including GIS • outage recording • connection and customer records/customer management databases • customer queries and call centres (not associated with direct billing) • operational training for network management and field staff • operational vehicles and transport • IT & telecoms for network management (including IT support for asset management systems) • day to day customer management including responding to queries on new connections, disconnections and reconnections • engineering and technical consulting • network planning and system studies • logistics (procurement) and stores • network asset site expenses and leases • route/easement management (including locating pipelines for third parties, mark cuts, stand-overs, obstructions, plans and permits) • surveying of new sites to identify work requirements • engineering/technical consulting services (excluding costs capitalised for capital projects) • contractor/contracts management (excluding costs capitalised for capital projects) • transmission operator liaison and management network related research and development

New allocation	means the operating costs or regulated service asset value allocated to gas transmission services in accordance with the new allocator and line items for each of the relevant disclosure years
New allocator or line item	means the allocator or line items that are used subsequent to the change in allocator or line items
No. with age unknown	means the total quantity of assets in the prescribed asset category and asset class installed in the network for which no installation information is known and no default date has been assigned
No. with default dates	means the total quantity of assets in the prescribed asset category and asset class installed in the network at the startend of the disclosure year where the original installation year is unknown and that have accordingly been allocated to a default installation year, expressed in the prescribed unit
Non-gas transmission services	means services of the GTB that are not gas transmission services
Non-network opex	means the sum of operational expenditure relating to system operations, network support and business support
Non-qualifying debt	means interest bearing debt that is not a qualifying debt
Non-qualifying intangible assets	means the value of assets identified in clause 2.2.2(d) of the IM determination
Non-standard consumer	means any consumer that is not a standard consumer
Non-standard contract	means a contract that is not a standard contract
Non-system fixed assets	means expenditure on assets that is not directly incurred on the network. This includes expenditure on information and technology systems, IT software upgrade costs, asset management systems, customer management systems, office buildings, depots and workshops, office furniture and equipment, motor vehicles, tools, plant and machinery.
Not directly attributable	means- (a) — in relation to operating costs, operating costs that are not directly attributable; (b) — in relation to regulated service asset values, regulated service asset values that are not directly attributable
Notional deductible interest	has the meaning given set out in clause 2.3.1(5) of the IM determination
Notional net cash flows	means, in relation to the- (a) — ROI, operating surplus / (deficit) less regulatory tax allowance less assets commissioned plus asset disposals (b) — alternative ROI, revenue less expenses less tax payments less assets commissioned plus asset disposals
Notional revenue foregone from posted discounts	means, for the purposes of Schedule 8, the revenue anticipated from posted discounts had they not been applied. Posted discounts means a discount to charges payable for the supply of gas pipeline services (a) that is offered by the GTB in a published tariff schedule; and (a)(b) the take-up of which is determined by consumers.

Number of assets at end of disclosure year end by installation date	means the total quantity of assets in the prescribed asset category and asset class installed in the network at the end of the disclosure year that were first installed in the prescribed year, expressed in the prescribed unit
Number of confirmed public reported gas escapes per system length (escapes/1000 km)	means any escape of gas confirmed by the GTB excluding third party damage events, routine surveys find and no traces events
Number of connection points	means the number of injection and offtake points
Number of new connections	means the number of new injection and offtake points in the disclosure year
Number with age unknown	means the total quality of assets in the prescribed asset category and asset class installed in the network for which no installation information is known and no default date has been assigned
Odourisation plant	means a plant where an odourant is added into the gas stream
Opening RAB (tax value)	means the sum of regulatory tax asset values for assets included in the total opening RAB value
Opening RIV	means total opening RAB value
Opening sum of regulatory tax asset values RAB (tax value)	means the sum of regulatory tax asset values for assets included in the total opening RAB value plus the regulatory tax asset values of assets referred to in clause 2.3.6(4)(b) of the IM determination
Opening tax losses	has the meaning given to that term in clause 2.3.2(3) of the IM determination
Opening value of fully depreciated, disposed and lost assets	means- (a) in relation to the unallocated RAB, the sum of unallocated RAB values of assets included in the total opening RAB values that are fully depreciated during the disclosure year, asset disposals and lost assets included in lost and found assets adjustment; (b) in relation to the RAB, the sum of RAB values of assets included in the total opening RAB values of assets that are fully depreciated during the disclosure year, asset disposals and lost assets included in the lost and found assets adjustment
Operating surplus / (deficit)	means total regulatory income less operational expenditure less pass through and recoverable costs recognised in information disclosure
Original allocation	means the operational expenditure or regulated service asset values allocated to gas transmission services in accordance with the allocations and line items made in the previous disclosure year
Original allocator or line items	means the allocator or line items that were used prior to the change in allocator or line items
Original requirements	means the Gas (Information Disclosure) Requirements 1997

Original tenor	means- (a) where the qualifying debt or non-qualifying debt is not issued to a related party, the term of a qualifying debt or non-qualifying debt at the issue date; (b) where the qualifying debt or non-qualifying debt is issued to a related party, the shorter of the- (i) the tenor of the qualifying debt; or (ii) the period from the qualifying debt's issue date to the earliest date on which its repayment is or may be required
Other adjustments to the RAB tax value	means- $q = a - (b + c - d - e - f - g)$ where- <i>a</i> = closing sum of regulatory tax asset value values RAB (tax value) <i>b</i> = opening sum of regulatory tax asset value values RAB (tax value) <i>c</i> = regulatory tax asset value of assets commissioned <i>d</i> = regulatory tax asset value of asset disposals <i>e</i> = tax depreciation <i>f</i> = lost and found assets adjustment <i>g</i> = adjustment resulting from asset allocation
Other income not included in regulatory profit / (loss) before tax but taxable	means income not included in regulatory profit / (loss) before tax that is taxable as determined in accordance with clause 2.3.5(4)(a) of the IM determination less revaluations
Other regulated service	has the meaning given set out in the IM determination
Other related party transactions	means the value of related party transactions that are not disclosed as total regulatory income, operational expenditure, capital expenditure or market value of asset disposals
Other specified pass-through costs	means costs identified in clause 3.1.2(1)(b) of the IM determination
Other stations	means a station other than a compressor station
OVABAA allocation increase	has the meaning given set out in the IM determination
Pass through and recoverable costs recognised in information disclosure	means the sum of rates, Commerce Act levies, industry levies, CPP specified pass through costs and balancing gas costs
Pass through and recoverable costs	means a cost specified in clause 3.1.2 or 3.1.3 of the IM determination
Posted discounts	means a discount to charges payable for the supply of gas pipeline services (a) that is offered by the GTB in a published tariff schedule; and (b) the take up of which is determined by consumers

Previous years' incremental gain/(loss)	means the incremental change or incremental adjustment term for the disclosure year in question determined in accordance with clause 3.3.1 of the IM determination
Previous years' incremental gain/(loss) adjusted for inflation	means the previous years' incremental gain/(loss) carried forward by applying the inflation rate in accordance with clause 3.3.2(1) of the IM determination
Price category code	means the relevant code in the schedule published by the GTB that is used to unambiguously define line charges for a consumer
Price component	means the various tariffs, fees and charges that constitute the components of the total price paid, or payable, by a consumer
Pricing date	means the day on which a qualifying debt is priced
Pricing schedule	means the list of prices by price category code for the provision of gas pipeline services that is publicly disclosed
Proportion of emergencies responded to within 1 hour (%)	means the number of emergencies responded to within 60 minutes / total number of emergencies
Proportion of emergencies responded to within 3 hours (%)	means the number of emergencies responded to within 180 minutes / total number of emergencies
Qualifying debt	has the meaning given set out in paragraph (a) of the defined term in clause 1.1.4(2) of the IM determination
Quantity of gas delivered (TJ)	means offtake volume. Expressed in TJ.
Rates	means a cost specified in clause 3.1.2(2)(a) of the IM determination
Rationale for change	means the rationale for changing the allocator or line items, including whether the change occurred because of change in circumstance or another reason
Reason for non-standard depreciation	means- (a) in relation to assets or groups of assets where depreciation is included in depreciation - no standard life asset, 'no standard life'; (b) in relation to assets or groups of assets where depreciation is included in depreciation - modified life assets, 'modified life'; (c) in relation to assets or groups of assets where depreciation is included in depreciation - alternative depreciation determined in accordance with CPP, 'CPP amendment'
Recoverable costs	has the meaning set out in the IM determination

Recoverable customised price-quality path costs	means a cost specified in clause 3.1.3(b), (c), (d), (e), (f), (g) or (h) of the IM determination
Regulated supplier	has the meaning given set out in the IM determination
Regulatory net taxable income	has the meaning given specified in clause 2.3.1(2) of the IM determination
Regulatory period	has the meaning given set out in the IM determination
Regulatory profit / (loss)	means the regulatory profit / (loss) before tax less the regulatory tax allowance
Regulatory profit / (loss) before tax	means the value of q calculated using the following formula: $q = a - b + c$ where: a = operating surplus / (deficit) b = total depreciation c = total CPI revaluations
Regulatory tax allowance	has the meaning given set out in clause 2.3.1 of the IM determination
Regulatory tax asset value	has the meaning given set out in the IM determination
Regulatory tax asset value of asset disposals	means the sum of regulatory tax asset values for assets that have a value in asset disposals
Regulatory tax asset value of assets commissioned	means the sum of regulatory tax asset values for assets that have a value in assets commissioned
Regulatory taxable income	has the meaning given set out in the IM determination
Reliability, Safety and Environment	in relation to expenditure, means the sum of quality of supply, legislative and regulatory, and other reliability, safety and environment.
Request for reserved capacity	means a notice from a shipper to a GTB that (a) is made before the start of the disclosure year in respect of which the request relates; and (b) specifies the pipeline capacity or capacities to which the shipper requires either (i) access; or (ii) priority access for the duration or part of the disclosure year
Research and development	in relation to expenditure, means expenditure on assets or operational expenditure where the primary driver for the expenditure relates to increasing the efficient provision of gas pipeline services through- <ul style="list-style-type: none"> • implementing an original and planned investigation undertaken with the prospect of gaining new scientific or technical knowledge or understanding; or • applying research findings or other knowledge to a plan or design for the production of new or substantially improved materials, devices, products, processes, systems or services before the start of commercial production or use

Field Code Changed

Response time to emergencies (RTE)	means the time elapsed from when an emergency is reported to a GTB representative until the GTB's personnel arrives at the location of the emergency												
Revaluation rate	has the meaning given set out in the IM determination												
Revenue-related working capital	means for- <ul style="list-style-type: none"> • the alternative opening RIV, the revenue for the last month of the previous disclosure year; and • the alternative closing RIV, the revenue for the last month of the disclosure year 												
ROI	means return on investment												
ROI — comparable to a post-tax WACC	means the ROI comparable to the vanilla WACC less the product of the cost of debt assumption(%), the leverage and the corporate tax rate												
ROI — comparable to a vanilla WACC	<p>means-</p> <p style="text-align: center;"><u>$q = XIRR(values, dates)$</u></p> <p>where:</p> <p><u>$XIRR(values, dates)$ is the excel function that returns an internal rate of return for a schedule of cash flows</u></p> <p>where the schedule of cash flows and timing are-</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Values</u></th> <th style="text-align: left;"><u>Date</u></th> </tr> </thead> <tbody> <tr> <td>- Opening RIV</td> <td>365 days before year-end</td> </tr> <tr> <td>- Mid-year net cash outflows</td> <td>182 days before year-end</td> </tr> <tr> <td>Line charge revenue</td> <td>148 days before year-end</td> </tr> <tr> <td>- Term credit spread differential allowance</td> <td>Year-end</td> </tr> <tr> <td>Closing RIV</td> <td>Year-end</td> </tr> </tbody> </table> <p>$q = (1 + half\text{-yearly } IRR)^2 - 1$</p> <p>where:</p> <p>half-yearly IRR = IRR (3 half-yearly amounts)</p> <p>where the 3 half-yearly amounts are-</p> <ul style="list-style-type: none"> the negative of opening RIV (year start) notional net cash flows (mid-year) the closing RIV less term credit spread differential allowance (year end) 	<u>Values</u>	<u>Date</u>	- Opening RIV	365 days before year-end	- Mid-year net cash outflows	182 days before year-end	Line charge revenue	148 days before year-end	- Term credit spread differential allowance	Year-end	Closing RIV	Year-end
<u>Values</u>	<u>Date</u>												
- Opening RIV	365 days before year-end												
- Mid-year net cash outflows	182 days before year-end												
Line charge revenue	148 days before year-end												
- Term credit spread differential allowance	Year-end												
Closing RIV	Year-end												

<p>ROI – comparable to a vanilla WACC (excluding financial incentives)</p>	<p>means:</p> $g = XIRR(values, dates)$ <p>where:</p> <p><i>XIRR(values, dates) is the excel function that returns an internal rate of return for a schedule of cash flows</i></p> <p>where the schedule of cash flows and timing are-</p> <table border="0"> <thead> <tr> <th>Values</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>- Opening RIV</td> <td>365 days before year-end</td> </tr> <tr> <td>- Mid-year net cash outflows plus financial incentives multiplied by the corporate tax rate</td> <td>182 days before year-end</td> </tr> <tr> <td>- Line Charge revenue less financial incentives</td> <td>148 days before year-end</td> </tr> <tr> <td>- Term credit spread differential allowance</td> <td>Year-end</td> </tr> <tr> <td>- Closing RIV</td> <td>Year-end</td> </tr> </tbody> </table>	Values	Date	- Opening RIV	365 days before year-end	- Mid-year net cash outflows plus financial incentives multiplied by the corporate tax rate	182 days before year-end	- Line Charge revenue less financial incentives	148 days before year-end	- Term credit spread differential allowance	Year-end	- Closing RIV	Year-end
Values	Date												
- Opening RIV	365 days before year-end												
- Mid-year net cash outflows plus financial incentives multiplied by the corporate tax rate	182 days before year-end												
- Line Charge revenue less financial incentives	148 days before year-end												
- Term credit spread differential allowance	Year-end												
- Closing RIV	Year-end												
<p>SCADA and communications</p>	<p>means a Supervisory Control and Data Acquisition system and its associated communications system that is used to monitor and control the operation of a network</p>												
<p>Secondary assets</p>	<p>means system fixed assets that support the conveyance of gas. Secondary assets include protection, SCADA and communication systems and chromatographs, but do not include compressors and river crossings</p>												
<p>Self-insurance allowance</p>	<p>means any self-insurance allowance allowed by the Commission through a CPP</p>												
<p>Service interruptions, incidents and emergencies</p>	<p>in relation to expenditure, means operational expenditure where the primary driver is an unplanned instantaneous event or incident that impairs the normal operation of network assets. This relates to reactive work (either temporary or permanent) undertaken in the immediate or short term in response to an unplanned event. This category also includes the direct cost of providing a service to respond to reported gas escapes, loss of supply and low pressure reports to make safe, including a repair allowance, the cost of rechecks, restoring supply, provision for 24/7 response and any waiting/non-productive time for response teams. Includes back-up assistance required to restore supply, repair leaks or make safe. It also includes operational support used during the outage or emergency response. It also includes any necessary response to events arising upstream. It does not include expenditure on activities performed proactively to mitigate the impact such an event would have should it occur.</p> <p>Planned follow-up activities resulting from an event which were unable to be permanently repaired in the short term are to be included under routine and corrective maintenance and inspection</p>												
<p>Shipper</p>	<p>means a person who is a party to a contract with a transmission system owner to have gas transported through all or part of the transmission system</p>												
<p>Special crossings</p>	<p>means a section of pipe and associated assets (i.e., support structures, vents, casings etc), where the associated assets are installed for the purpose of crossing a road, railway or river etc.</p>												
<p>Standard consumer</p>	<p>means a consumer of the GTB that has a standard contract with that GTB for the provision of gas transmission services</p>												

System length (km) (at year end)	means the total length of pipeline (in kilometres) that form the transmission system as at the end of the current disclosure year
System operations	in relation to expenditure, means operational expenditure relating to office based system operations, including <ul style="list-style-type: none"> • control centre costs • for gas transmission, critical system operator activities (including OATIS) • outage planning and notification • production facility liaison
System operations	in relation to expenditure, means operational expenditure relating to office based system operations, including <ul style="list-style-type: none"> • control centre costs • for gas transmission, critical system operator activities (including OATIS) • outage planning and notification • planning and co-ordinating network switching including fault switching • production facility liaison
Tax depreciation	has the meaning given set out in clause 2.3.5(3) of the IM determination
Tax effect	has the meaning given set out in the IM determination
Tax effect of adjusted depreciation	means the tax effect of adjusted depreciation, using the definitions of “tax effect” and “adjusted depreciation” in this schedule
Tax effect of other temporary differences	means the tax effect of positive temporary differences less negative temporary differences. Positive temporary differences and negative temporary differences have the meanings set out in clause 2.3.5(4) and (5) of the IM determination
Tax effect of total tax depreciation	means the tax effect of total tax depreciation using the definitions of “tax effect” and “tax depreciation” in this schedule
Tax payments	means regulatory tax allowance recognised proportionally to how the GTB has paid (or would have paid) tax over the tax year preceding the end of the disclosure year
Term credit spread difference	has the meaning given set out in the IM determination
Term credit spread differential allowance	has the meaning given set out in the IM determination
Total attributable to GTBs regulated service	means the sum of directly attributable costs or assets and not directly attributable costs or assets that are attributable to gas transmission services
Total book value of interest bearing debt	means the sum of book value of qualifying debt and non-qualifying debt at the date of the latest general purpose financial statements
Total closing RAB values ⁵	means- <ul style="list-style-type: none"> (a) in relation to the unallocated RAB, the sum of unallocated closing RAB values as determined in accordance with the IM determination; (b) in relation to the RAB, the sum of closing RAB values as determined in accordance with the IM determination

Total depreciation	means- (a) in relation to the unallocated RAB, the sum of unallocated depreciation as determined in accordance with the IM determination; (b) in relation to the RAB or regulatory profit, the sum of depreciation as determined in accordance with the IM determination
<u>Total gas conveyed (TJ)</u>	<u>means the sum of quantity of gas delivered (TJ), gas used in compressor stations (TJ) and gas used in heating systems (TJ). Expressed in TJ.</u>
<u>Total gas delivered to customers</u>	<u>means total offtake volume</u>
<u>Total gas entering the system at injection points</u>	<u>means total intake volume</u>
<u>Total gas used in compressor stations</u>	<u>gas used in the operation of compressor stations on the network</u>
<u>Total gas used in heaters</u>	<u>gas used in the operation of heating systems on the network</u>
Total opening RAB values subject to revaluations	means- (a) in relation to the unallocated RAB, total opening RAB values - unallocated RAB less opening RAB value of fully depreciated, disposed and lost assets - unallocated RAB; (b) in relation to the RAB, total opening RAB values - RAB less opening RAB value of fully depreciated, disposed and lost assets – RAB
<u>Total revaluations</u>	means- (a) in relation to the unallocated RAB, the sum of unallocated revaluation as determined in accordance with the IM determination; (b) in relation to the RAB or regulatory profit, the sum of revaluations as determined in accordance with the IM determination
<u>Total unadjusted asset values</u>	<u>means the sum of 2009 authorisation assets and 2009 disclosed assets</u>
<u>Transmission charge</u>	<u>means any payment made in respect of the use of the transmission system</u>
<u>Unallocated initial RAB value</u>	<u>means the values of assets as determined in accordance with clause 2.2.3(1) of the IM determination</u>
<u>Unregulated services</u>	<u>has the meaning set out in the IM determination</u>
<u>Unaccounted for gas (TJ)</u>	<u>means gas entering the network (TJ) less change in Line Pack (TJ) less total gas conveyed (TJ). Expressed in TJ.</u>
Utilised tax losses	has the meaning given set out in paragraph (a) of the defined term in the IM determination
<u>Value of commissioned assets</u>	<u>means the value of ‘assets commissioned’</u>

Value of transaction	means the value of the related party transaction as determined in accordance with clauses 2.3.7 and 2.3.8 <u>5 of section 2.3</u> of this determination
Weighted average expected total asset life	means the weighted average expected total asset life of assets calculated by using the opening RAB values as weights where opening RAB value has the meaning given set out in the IM D etermination
<u>Weighted average pipe diameter (mm)</u>	<u>means the weighted average pipe diameter, expressed in millimetres, based on the length of pipeline that form the network</u>
Weighted average remaining asset life	means the weighted average remaining asset life of assets calculated by using the opening RAB values as weights where remaining asset life and opening RAB values has the meaning given set out in the IM D etermination
<u>Weighted average pipe diameter (mm)</u>	<u>means the weighted average pipe diameter, expressed in millimetres, based on the length of pipeline that form the network</u>
<u>Year-end ROI – comparable to a post tax WACC</u>	<u>means the year-end ROI – comparable to the vanilla WACC less the product of the cost of debt assumption(%), the leverage and the corporate tax rate</u>
<u>Year-end ROI – comparable to a vanilla WACC</u>	<p><u>means:</u></p> $\frac{a}{b + (c \times .05)}$ <p><u>where:</u> <u>a = Regulatory profit / (loss)</u> <u>b = Opening RIV</u> <u>c = Assets commissioned</u></p>
Year change made	means- (a) in relation to assets or groups of assets where depreciation is included in depreciation – no standard life asset, the year the asset was acquired; (b) in relation to assets or groups of assets where depreciation is included in depreciation – modified life assets, the year the asset life was modified; (c) in relation to assets or groups of assets where depreciation is included in depreciation – alternative depreciation determined in accordance with CPP, the start of the CPP period

Schedule 17 Certification for Year-beginning Disclosures

Clause 2.9.1

We, [insert full names], being directors of [name of GTB] certify that, having made all reasonable enquiry, to the best of our knowledge-

- a) the following attached information of [name of GTB] prepared for the purposes of clause 2.6.1, ~~and subclauses 2.6.3(3)2.6.3(4), clauses 2.6.52.6.5(2) and, 2.7.2 and *and subclause 2.13.1(1)(b)2.12.12(1)(b)]~~ of the Gas Transmission Information Disclosure Determination 20125 in all material respects complies with that determination;
- b) ~~The~~ prospective financial or non-financial information included in the attached information has been measured on a basis consistent with regulatory requirements or recognised industry standards; ~~and.~~
- c) The forecasts in Schedules 11a, 11b, 12a and 12b are based on objective and reasonable assumptions which both align with [name of GTB]'s corporate vision and strategy and are documented in retained records.

*Delete if inapplicable

[Signatures of 2 directors]
[Date]

Schedule 18 Certification for Disclosures at the Beginning of a Pricing Year

Clause 2.9.2

We, [insert full names], being directors of [name of GTB] certify that, having made all reasonable enquiry, to the best of our knowledge-

- a) the following attached information of [name of GTB] prepared for the purposes of clause 2.4.1 of the Gas Transmission Information Disclosure Determination 2012⁵ in all material respects complies with that determination; and
- b) the prospective financial or non-financial information included in the attached information has been forecast on a basis consistent with regulatory requirements or recognised industry standards.

[Signatures of 2 directors]

[Date]

Schedule 19 Certification for Year-end Disclosures

Clause 2.9.3

We, [insert full names], being directors of [name of GTB] certify that, having made all reasonable enquiry, to the best of our knowledge-

- a) the information, prepared for the purposes of clauses 2.3.1, 2.3.2, 2.4.20, 2.5.1, 2.7.1, ~~and 2.7.2 and 2.12.2~~ of the Gas Transmission Information Disclosure Determination 20125 in all material respects complies with that determination; and
- b) the historical information used in the preparation of Schedules 8, 9a, 9b, 9c, 9d, ~~9e~~, 10a, 10b ~~and~~, 14 ~~a and 14b~~ has been properly extracted from the [name of GTB]'s accounting and other records sourced from its financial and non-financial systems, and that sufficient appropriate records have been retained [and if not, what records and systems were used] ~~;~~ ~~and~~
- ~~c) the forecasts in Schedules 11a, 11b, 12a, 12b and 12c are based on objective and reasonable assumptions which both align with [name of GTB]'s corporate vision and strategy and are documented in retained records.~~

*[In respect of related party costs and revenues recorded in accordance with subclauses 2.3.7(1)2.3.6(1) (when valued in accordance with clause 2.2.11(5)(h)(ii) of the Gas Transmission Services Input Methodologies Determination 2010), 2.3.7(2)(f)2.3.6(2)(f) and 2.3.8(2)(b)2.3.7(2)(b), we certify that, having made all reasonable enquiry, including enquiries of our related parties, we are satisfied that to the best of our knowledge and belief the costs and revenues recorded for related party transactions reasonably reflect the price or prices that would have been paid or received had these transactions been at arm's-length.]

* [in respect of the application of OVABAA in the allocation of costs or assets in accordance with clause 2.1.5 of the IM determination, we certify that, having made all reasonable enquiry, including enquiries of our related policies, we are satisfied that to the best of our knowledge and belief, the unregulated service would be unduly deterred if the OVABAA allocation was less than that disclosed.]

* Delete if inapplicable

[Signatures of 2 directors]

[Date]

Schedule 20—Certification for Transitional Disclosures

Clause 2.9.4

We, [insert names], being directors of [name of GTB] certify that, having made all reasonable enquiry, to the best of our knowledge the information, prepared for the purposes of clauses 2.12.1, 2.12.2, 2.12.5, 2.12.6, 2.12.8, and 2.12.10 of the Gas Transmission Information Disclosure Determination 2012 in all material respects complies with that determination.

{Signatures of 2 directors}

{Date}