

ISBN 978-1-869455-67-5

Project no. 16275

Public version

[DRAFT FAST TRACK] Gas Transmission Information Disclosure Amendments Determination (No.1) 2017

The Commission:

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

Determination history		
Determination date	Decision number	Determination name
1 October 2012	NZCC 24	Gas Transmission Information Disclosure Determination
24 March 2015	NZCC 8	2015 Amendment to the Gas Transmission Information Disclosure Determination 2012
[XX]	[XX]	Gas Transmission Information Disclosure Amendments Determination (No.1) 2017

Commerce Commission
Wellington, New Zealand

**GAS TRANSMISSION INFORMATION DISCLOSURE AMENDMENTS
DETERMINATION (No.1) 2017**

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

PART 1 GENERAL PROVISIONS

1.1 PRINCIPAL DETERMINATION AMENDED

- 1.1.1 This determination amends the **principal determination**.
- 1.1.2 Amendments to the body of the **principal determination** are marked as track changes in this **Amendment**.

1.2 COMMENCEMENT DATES

- 1.2.1 The **principal determination** came into force on 1 October 2012.
- 1.2.2 This **Amendment** comes into force on [XX].

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** unless otherwise required by this determination or the **IM 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 attachment) 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
<u>Amendment</u>	<u>means the Gas Transmission Information Disclosure Amendments Determination (No.1) 2017</u>
AMP	means asset management plan
AMP planning period	has the meaning specified in clause 3.4 of Attachment A to this determination
AMP update	has the meaning specified in clause 2.6.5 of this determination
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

means-

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

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-

- 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**

Audited disclosure information

means information disclosed under any of clauses 2.3.1 and 2.3.2 of this determination

and the explanatory notes disclosed in boxes 1 to 12 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 2.6.6 of this determination, 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	<p>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-</p> <p>(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</p> <p>(b) both gas intake points and oftake points of connection</p>
Contract	<p>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-</p> <p>(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</p>

- 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 of this determination, the **disclosure year** of the report
- (b) in relation to the prospective disclosures made under clauses 2.6.1, 2.6.3, and 2.6.6 of this determination, the **disclosure year** in which the report is prepared

CY, CY-X or CY+X

means

- (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-

~~(a) the 12 month period ending on 30 September of the year the disclosure relates to (for example, disclosure year 2018 is the 12 months ended 30 September 2018)~~

~~(a)~~

~~(b) in the case of 'disclosure year 2017' for First Gas' network previously owned by the Vector Group, the period from 1 July 2016 to 30 September 2017~~

~~(c) in the case of 'disclosure year 2017' for First Gas' network previously owned by Maui Development Limited, the period from 1 January 2017 to 30 September 2017~~

~~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 (for Vector, disclosure year 2013 is the 12 months ended 30 June 2013)~~

~~for MDL, the 12 month period ending on 31 December of the year the disclosure relates to (for MDL, disclosure year 2013 is the 12 months ended 31 December 2012)~~

DPP regulatory period has the meaning given in the **IM Determination**

E

EDB has the meaning given in the Electricity Distribution Services Input Methodologies

Determination 2012 [2012] NZCC 26, including, for the avoidance of doubt, any amendment in effect at the time this determination comes into force

Error

means incorrect information disclosed in accordance with the **principal determination** as amended at the time of the disclosure, in such a way that-

- (a) the data is incorrect;
- (b) a statement is incorrect; or
- (c) the compilation of disclosed information is inconsistent with the **principal determination** as amended 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

Gas pipeline services	has the meaning given in s 55A of the Act
Gas transmission services	has the meaning given in the IM determination
GDB	has the meaning given in the Gas Distribution Services Input Methodologies Determination 2012 [2012] NZCC 27, including, for the avoidance of doubt, any amendment in effect at the time this determination comes into force
GTB (or gas transmission business)	means GTB as that term is defined in the IM determination
	H
	I
IM determination	means the Gas Transmission Services Input Methodologies Determination 2012 [2012] NZCC 28, including amendments in effect at the time this determination comes into force
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 GTB 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 GTB 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

Indirectly affected data and statements	means data or statements which are incorrect only because they relied on disclosed data or statements that are affected by an error
Initial RAB	has the meaning given 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 unallocated opening RAB value and regulatory depreciation are 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, the sum of regulatory tax asset values for found assets less the sum

of regulatory tax asset values of lost assets, where ‘found assets’ and ‘lost assets’ have the meanings given 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;
- (f) tools, plant and machinery; and
- (g) any other assets under **GAAP** that are not **network** assets

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
	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 2.3.62-3.7 of this determination
Original disclosure	means disclosures made in accordance with the principal determination as amended at the time of the disclosure which contains a material or non-material error
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

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	in relation to a GTB , means - <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	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— <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-
 - (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</p>

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

Principal determination

means the Gas Transmission Information Disclosure Determination 2012, as published on 1 October 2012

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-

- (a) there is a linkage between-
 - (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**

~~**Transitional AMP** has the meaning given in subclause 2.13.7(2) of this determination~~

Transmission system means a **network** or one of the component parts of a **network**

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

~~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 the **gas transmission services** activities undertaken by the **Vector Group**~~

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 = **capital expenditure**;

c = **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.

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** the value of **assets commissioned** by the **GTB** exceeds 10% of the **total opening RAB values**;
- (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~~2.3.4 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

2.3.62.3.5 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

2.3.72.3.6 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 clauses 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.

2.3.82.3.7 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

2.3.92.3.8 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~~2.3.9 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 the **commencement date**) 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 the **commencement date**.
- 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 Subject to clause 2.13.1 and 2.13.2, w 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 2.13.7~~, 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 2.6.6;
 - (e) contains the Report on Asset Management Maturity as described in Schedule 13;
- (2) Complete 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 clauses ~~2.6.4 and 2.13.7~~, a **GTB** may elect to complete and **publicly disclose** an **AMP update**, as described in clause 2.6.5, before the start of a **disclosure year**, instead of an **AMP**, as described in clause 2.6.1(1), unless the start of that **disclosure year** is-
- (1) between 6 (inclusive) and 18 months after the start of the **DPP regulatory period**; or
 - (2) between 18 (inclusive) and 30 months before the start of the next **DPP regulatory period**.
- 2.6.4 A **GTB** must not complete and **publicly disclose** an **AMP update** instead of an **AMP** if it has not previously **publicly disclosed** an **AMP** under clause 2.6.1.
- 2.6.5 For the purpose of clause 2.6.3, 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 clause;
 - (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 clause;

- (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 clause 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) Contain the information set out in the schedules described in clause 2.6.6.

2.6.6 ~~Subject to clause 2.13.1, b~~efore 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 DISCLOSED INFORMATION

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 and subclause 2.5.1(1)(e).

- (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 ~~Subject to clause 2.13.4, b~~ 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 2.6.6.

2.7.3 Within 6 months after the end of each **disclosure year**, every **GTB** may **publicly disclose** any further comments 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 2012 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 2012 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**.

2.8.2 Subject to clause 2.8.3, where a **GTB publicly discloses** information under clause 2.12.1 or 2.12.2 and the **GTB** was required to procure an assurance report under clause 2.8.1 for the **original disclosure**, the **GTB** must procure an assurance report to the information disclosed under clause 2.12.1 or 2.12.2 to the standard of the assurance report procured for the **original disclosure**.

2.8.3 In applying clause 2.8.2, the assurance required for **indirectly affected data and statements** disclosures is whether the disclosed **error** has been corrected and subsequently correctly reflected in the revised **indirectly affected data and statements**.

2.9 CERTIFICATES

- 2.9.1 ~~Subject to clause 2.13.3, w~~where a **GTB** is required to **publicly disclose** any information under any of clauses 2.6.1, 2.6.3, 2.6.6 and 2.7.2, ~~and subclause 2.13.7(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, 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 Subject to clause 2.9.5, where a **GTB** **publicly discloses** information under clause 2.12.1 or 2.12.2, the **GTB** must **publicly disclose** a certificate under clause 2.12.1 or 2.12.2 to the standard of the certificate disclosed with the **original disclosure**.
- 2.9.5 In applying clause 2.9.4, the certification required for **indirectly affected data and statements** disclosures is whether the disclosed **error** has been corrected and subsequently correctly reflected in the revised **indirectly affected data and statements**.

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 2.13.6, w~~Within 7 months of identifying a material **error**, a **GTB** must-

(1) **publicly disclose-**

- (a) a description of the **error** including the quantum of the **error** and a summary of the disclosures, data and statements affected by the **error**;
- (b) the reason for the **error**;
- (c) the data and statements from the **original disclosure** affected by the **error**;
- (d) in a manner which is consistent with the **principal determination** including any amendments in effect at the time of the **original disclosure**, materially correct revised data or statements affected by the **error**;
- (e) a certificate in accordance with clause 2.9.4; and
- (f) where applicable, an assurance report in accordance with clause 2.8.2.

(2) disclose the information outlined in subclause (1) when **publicly disclosing** the **original disclosure** in accordance with clause 2.10.1.

2.12.2 ~~Subject to clause 2.13.6, i~~f a **GTB** identifies a non-material **error**, a **GTB** may, within 7 months of identifying the non-material **error**, **publicly disclose** it in accordance with clause 2.12.1.

2.12.3 Information disclosed in accordance with this determination that refers to or relies on information contained in a previous disclosure must be consistent with the previous disclosure, unless an **error** disclosure related to that information has been made in accordance with clause 2.12.1 or 2.12.2.

2.12.4 Information disclosed after an **error** disclosure is made in accordance with clause 2.12.1 or 2.12.2 must be consistent with the **error** disclosure made in accordance with clause 2.12.1 or 2.12.2.

2.13 TRANSITIONAL PROVISIONS

2.13.1 For disclosure year 2017 and disclosure year 2018, references to 'Vector only' in Schedule 8 mean 'First Gas ex-Vector Group assets'.

2.13.12.13.2 For disclosure year 2017 and disclosure year 2018, references to 'MDL only' in Schedule 8 mean 'First Gas ex-Maui Development Limited assets'.

~~2.13.2 For the disclosure year 2016, in complying with the requirements set out in clause 2.6.6, Vector must comply with either the requirements specified in subclauses 2.6.5(1) and 2.6.5(3) of the principal determination (in the form of the reports set out therein), or the requirements set out in clause 2.6.6 of this determination.~~

~~(1) If Vector elects to complete the reports specified in clause 2.6.5(1) of the principal determination, when completing these reports, Vector must use the definitions from clause 1.4.3 and Schedule 16 of the principal determination.~~

~~2.13.3 Before the start of disclosure year 2016 or within six months of the start of disclosure year 2016, if Vector elects to complete the reports specified in subclause 2.6.5(1) of the principal determination, Vector must publicly disclose the completed reports.~~

~~2.13.4 For the disclosure year 2016, in complying with the requirements set out in clause 2.9.1, Vector must comply with either the requirements specified in clause 2.9.1 of the principal determination (in the form of the certificate set out therein), or the requirements set out in clause 2.9.1 of this determination.~~

~~2.13.5 For the disclosure year 2016, in complying with the requirements set out in clause 2.7.2, Vector must complete and publicly disclose the explanatory notes either before the start of disclosure year 2016, or within six months of the start of disclosure year 2016.~~

~~(1) If Vector elects to complete the explanatory notes before the start of disclosure year 2016, Vector must complete and publicly disclose either the explanatory notes specified in Schedule 14a of the principal determination or the explanatory notes specified in Schedule 14a of this determination.~~

~~2.13.6 For the disclosure year 2015 and disclosure year 2016, in completing the Report on Return on Investment set out in Schedule 2, every GTB must calculate the following CY-1 and CY-2 disclosures in accordance with this determination-~~

~~(1) ROI comparable to a post tax WACC reflecting all revenue earned;~~

- ~~(2) — ROI — comparable to a post tax WACC excluding revenue earned from financial incentives;~~
- ~~(3) — ROI — comparable to a post tax WACC excluding revenue earned from financial incentives and wash-ups;~~
- ~~(4) — ROI — comparable to a vanilla WACC reflecting all revenue earned;~~
- ~~(5) — ROI — comparable to a vanilla WACC excluding revenue earned from financial incentives; and~~
- ~~(6) — ROI — comparable to a vanilla WACC excluding revenue earned from financial incentives and wash-ups.~~

~~2.13.7 — In complying with clauses 2.12.1 and 2.12.2 before 1 September 2015, GTBs must **publicly disclose** the information described in clause 2.12.1 either before 1 September 2015 or within 7 months of identifying the material or non-material error.~~

~~Transitional AMP requirements for MDL~~

~~2.13.8 — Notwithstanding any requirements set out in clauses 2.6.1, 2.6.2, 2.6.3, 2.6.4 and 2.6.5, 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) of this determination;~~
 - ~~(c) — include the minimum requirements set out in subclause (3);~~
 - ~~(d) — include the forecast information set out in clause 2.6.6;~~

- ~~(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 clause 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 clause 3.7 of Attachment A;~~
 - ~~(f) — a description of the accountabilities and responsibilities for asset management, as set out in clause 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 clause 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 clause 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(iii); 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 clauses 8.2, 8.3 and 8.4 of this attachment, 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 clause 8.1.1 of this attachment; and
 - 8.1.3 a description of the extent to which constraints identified in clause 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 clause 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 clause 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 clause 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 clause 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 clauses 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 clause 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 clauses 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

		Company Name		
		For Year Ended		
SCHEDULE 1: ANALYTICAL RATIOS				
<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. 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	1(i): Expenditure Metrics			
8		Ratio of expenditure to quantity of gas delivered (\$ per TJ)	Ratio of expenditure to system length (\$ per km)	
9	Operational expenditure	-	-	
10	Network	-	-	
11	Non-network	-	-	
12				
13	Expenditure on assets	-	-	
14	Network	-	-	
15	Non-network	-	-	
16				
17	1(ii): Service Intensity Measures			
18				
19	Volume density	-	<i>Quantity of gas delivered per km of system length (TJ/km)</i>	
20				
21	1(iii): Composition of Revenue Requirement			
22		(\$000)	% of revenue	
23	Operational expenditure	-	-	
24	Pass through and recoverable costs excluding financial incentives and wash-ups	-	-	
25	Total depreciation	-	-	
26	Total revaluations	-	-	
27	Regulatory tax allowance	-	-	
28	Regulatory profit/(loss) including financial incentives and wash-ups	-	-	
29	Total regulatory income	-	-	
30				
31	1(iv): Reliability			
32				
33	Interruption rate	-	<i>Interruptions per 100km of system length</i>	

Schedule 2 Report on Return on Investment

Company Name
 For Year Ended

SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

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(ii). 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.

sch ref		CY-2	CY-1	Current Year CY
7	2(i): Return on Investment			
8				
9	ROI – comparable to a post tax WACC	%	%	%
10	Reflecting all revenue earned			-
11	Excluding revenue earned from financial incentives			-
12	Excluding revenue earned from financial incentives and wash-ups			-
13				
14	Mid-point estimate of post tax WACC			
15	25th percentile estimate			
16	75th percentile estimate			
17				
18				
19	ROI – comparable to a vanilla WACC			
20	Reflecting all revenue earned			-
21	Excluding revenue earned from financial incentives			-
22	Excluding revenue earned from financial incentives and wash-ups			-
23				
24	WACC rate used to set regulatory price path			
25				
26	Mid-point estimate of vanilla WACC			
27	25th percentile estimate			
28	75th percentile estimate			
29				
30	2(ii): Information Supporting the ROI		(\$000)	
31				
32	Total opening RAB value			-
33	Opening RIV			-
34				
35				
36	Line charge revenue			-
37				
38	Expenses cash outflow			-
39	plus Assets commissioned			-
40	less Asset disposals			-
41	plus Regulatory tax allowance			-
42	less Other regulated income			-
43	Mid-year net cash outflows			-
44				
45	Term credit spread differential allowance			-
46				
47	Total closing RAB value			-
48	less Adjustment resulting from asset allocation			-
49	less Lost and found assets adjustment			-
50	Closing RIV			-
51				
52				
53	ROI – comparable to a vanilla WACC			-
54				
55	Leverage (%)			44.0%
56	Cost of debt assumption (%)			-
57	Corporate tax rate (%)			-
58				
59	ROI – comparable to a post tax WACC			-

60	2(iii): Information Supporting the Monthly ROI					
61						
62						
63	Opening RIV					N/A
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						
75						
76						
77						
78						
79	Total					
80						
81	Regulatory tax allowance					N/A
82						
83	Term credit spread differential allowance					N/A
84						
85	Closing RIV					N/A
86						
87						
88	Monthly ROI – comparable to a vanilla WACC					N/A
89						
90	Monthly ROI – comparable to a post tax WACC					N/A
91						
92	2(iv): Year-end ROI rates for comparison purposes					
93						
94	Year-end ROI – comparable to a vanilla WACC					
95						
96	Year-end ROI – comparable to a post tax WACC					
97						
98	* 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.					
99						
100	2(v): Financial Incentives and Wash-Ups					
101						
102	Net recoverable costs allowed under incremental rolling incentive scheme					
103	Other financial incentives					
104	Financial incentives					
105						
106	Impact of financial incentives on ROI					
107						
108	Input methodology claw-back					
109	Recoverable customised price-quality path costs					
110	Other wash-ups					
111	Wash-up costs					
112						
113	Impact of wash-up costs 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					
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.					
<i>sch ref</i>					
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 excluding financial incentives and wash-ups	<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) including financial incentives and wash-ups		<input type="text"/>		
32					
33	3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups		(\$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 excluding financial incentives and wash-ups				
40		Balancing gas costs	<input type="text"/>		
41		Other recoverable costs excluding financial incentives and wash-ups	<input type="text"/>		
42	Pass-through and recoverable costs excluding financial incentives and wash-ups		<input type="text"/>		
43					
44	3(iii): Incremental Rolling Incentive Scheme		(\$000)		
45			CY-1	CY	
46					
47		Allowed controllable opex	<input type="text"/>		
48		Actual controllable opex	<input type="text"/>		
49					
50		Incremental change in year	<input type="text"/>		
51					
52			Previous years' incremental change	Previous years' incremental change adjusted for inflation	
53	CY-5	[year]	<input type="text"/>		
54	CY-4	[year]	<input type="text"/>		
55	CY-3	[year]	<input type="text"/>		
56	CY-2	[year]	<input type="text"/>		
57	CY-1	[year]	<input type="text"/>		
58	Net incremental rolling incentive scheme		<input type="text"/>		
59					
60	Net recoverable costs allowed under incremental rolling incentive scheme		<input type="text"/>		
61					
62	3(iv): Merger and Acquisition Costs		(\$000)		
63					
64		Merger and acquisition expenditure	<input type="text"/>		
65					
66	<i>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)</i>				
67					
68	3(v): Other Disclosures		(\$000)		
69					
70		Self-insurance allowance	<input type="text"/>		

Schedule 4 Report on Value of the Regulatory Asset Base (Rolled Forward)

		Company Name For Year Ended				
7						
8						
9						
10		RAB	RAB	RAB	RAB	RAB
11		CY-4	CY-3	CY-2	CY-1	CY
12		(\$000)	(\$000)	(\$000)	(\$000)	(\$000)
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
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SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2. GTBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of a 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

4(i): Regulatory Asset Base Roll Forward

Total opening RAB value					
less Total depreciation					
plus Total revaluations					
plus Assets commissioned					
less Asset disposals					
plus Lost and found assets adjustment					
plus Adjustment resulting from asset allocation					
Total closing RAB value					

4(ii): Unallocated Regulatory Asset Base

Total opening RAB value					
less Total depreciation					
plus Total revaluations					
plus Assets commissioned (other than below)					
Assets acquired from a regulated supplier					
Assets acquired from a related party					
Assets commissioned					
less Asset disposals (other than below)					
Asset disposals to a regulated supplier					
Asset disposals to a related party					
Asset disposals					
plus Lost and found assets adjustment					
plus Adjustment resulting from asset allocation					
Total closing RAB value					

* 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 cost allocation. Neither value includes works under construction.

51					
52	4(iii): Calculation of Revaluation Rate and Revaluation of Assets				
53					
54	CPI _t				
55	CPI _{t-4}				
56	Revaluation rate (%)				
57					
58					
59	Total opening RAB value				
60	less				
61	Opening value of fully depreciated, disposed and lost assets				
62					
63	Total opening RAB value subject to revaluation				
64	Total revaluations				
65					
66					
67	4(iv): Roll Forward of Works Under Construction				
68					
69	Works under construction—preceding disclosure year				
70	plus				
71	Capital expenditure				
72	less				
73	Assets commissioned				
74	plus				
75	Adjustment resulting from asset allocation				
	Works under construction - current disclosure year				
	Highest rate of capitalised finance applied				

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

5a(i): Regulatory Tax Allowance			(\$000)
7	Regulatory profit / (loss) before tax		-
8			
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			
16	less Total revaluations	-	
17	Income included in regulatory profit / (loss) before tax but not taxable	*	
18	Expenditure or loss deductible but not in regulatory profit / (loss) before tax	*	
19			-
20	Temporary differences:		
21	plus 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			
31	less Utilised tax losses		-
32	Regulatory net taxable income		-
33			
34	Corporate tax rate (%)		
35	Regulatory tax allowance		-
36			

* Workings to be provided in Schedule 14

5a(ii): Disclosure of Permanent and Temporary Differences

In Schedule 14, Box 5 and Box 6, provide descriptions and workings of items recorded in the asterisked categories in Schedule 5a(i).

5a(iii): Reconciliation of Tax Losses			(\$000)
44	Opening tax losses		
45			
46	plus Current period tax losses		
47	less Utilised tax losses		
48	Closing tax losses		-

5a(iv): Regulatory Tax Asset Base Roll-Forward

5a(iv): Regulatory Tax Asset Base Roll-Forward			(\$000)
51	Opening sum of regulatory tax asset values		
52	less Tax depreciation		
53	plus Regulatory tax asset value of assets commissioned		
54	less Regulatory tax asset value of asset disposals		
55	plus Lost and found assets adjustment		
56	plus Adjustment resulting from asset allocation		
57	plus Other adjustments to the RAB tax value		
58	Closing sum of regulatory tax asset values		-

Schedule 5b Report on Related Party Transactions

	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">Company Name</div> <div style="border: 1px solid black; padding: 5px;">For Year Ended</div>						
<p>SCHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS</p> <p>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.</p>							
<p>5b(i): Summary— Related Party Transactions</p> <p>Total regulatory income</p> <p>Operational expenditure</p> <p>Capital expenditure</p> <p>Market value of asset disposals</p> <p>Other related party transactions</p>	<p>(\$000)</p> <table border="1" style="width: 100%; height: 50px;"> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>						
<p>5b(ii): Entities Involved in Related Party Transactions</p> <p>Name of related party</p>		<p>Related party relationship</p>					
<p>5b(iii): Related Party Transactions</p> <p>Name of related party</p>							
<p>5b(iii): Related Party Transactions</p> <p>Name of related party</p>							
<p>5b(iii): Related Party Transactions</p> <p>Name of related party</p>							
<p>5b(iii): Related Party Transactions</p> <p>Name of related party</p>							
<p>5b(iii): Related Party Transactions</p> <p>Name of related party</p>							
<p>5b(iii): Related Party Transactions</p> <p>Name of related party</p>							
<p>5b(iii): Related Party Transactions</p> <p>Name of related party</p>							
<p>5b(iii): Related Party Transactions</p> <p>Name of related party</p>							
<p>5b(iii): Related Party Transactions</p> <p>Name of related party</p>							
<p>5b(iii): Related Party Transactions</p> <p>Name of related party</p>							
<p>5b(iii): Related Party Transactions</p> <p>Name of related party</p>							
<p>5b(iii): Related Party Transactions</p> <p>Name of related party</p>							
<p>5b(iii): Related Party Transactions</p> <p>Name of related party</p>							
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<p>5b(iii): Related Party Transactions</p> <p>Name of related party</p>							

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.

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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

<p style="text-align: center;">SCHEDULE 5d: REPORT ON COST ALLOCATIONS</p> <p style="text-align: center;">This schedule provides information on the allocation of operational costs. GTBs must provide explanatory comment on their cost allocation in Schedule 14 (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.</p>	
<p style="text-align: center;">Company Name For Year Ended</p>	
sch ref	Value allocated (\$000s)
	Arm's length deduction
	Gas transmission services
	Non-gas transmission services
	Total
	OVABAA allocation increase (\$000s)
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47	5d(ii): Other Cost Allocations	Arm's length deduction	Value allocated (\$000s)	OVABAA allocation increase (\$000s)
48	Pass through and recoverable costs			
49	Pass through costs			
50	Directly attributable			
51	Not directly attributable			
52	Total attributable to regulated service			
53	Recoverable costs			
54	Directly attributable			
55	Not directly attributable			
56	Total attributable to regulated service			
57				
58	5d(iii): Changes in Cost Allocations* †			
59				
60				
61	Change in cost allocation 1			
62	Cost category			
63	Original allocator or line items			
64	New allocator or line items			
65				
66	Rationale for change			
67				
68				
69				
70	Change in cost allocation 2			
71	Cost category			
72	Original allocator or line items			
73	New allocator or line items			
74				
75	Rationale for change			
76				
77				
78				
79	Change in cost allocation 3			
80	Cost category			
81	Original allocator or line items			
82	New allocator or line items			
83				
84	Rationale for change			
85				
86				
87	* 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.			
88	† include additional rows if needed			

Schedule 5e Report on Asset Allocations

<p style="text-align: center;">SCHEDULE 5e: REPORT ON ASSET ALLOCATIONS</p> <p style="text-align: center;">This schedule requires information on the allocation of asset values. This information supports the calculation of the RAB value in Schedule 4. GTBs 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 2.8.</p>			
	<p>Company Name For Year Ended</p>		
7		5e(i): Regulated Service Asset Values	
8			Value allocated (\$000s)
9			Gas transmission services
10		Pipes	
11		Directly attributable	
12		Not directly attributable	
13		Total attributable to regulated service	
14		Stations	
15		Directly attributable	
16		Not directly attributable	
17		Total attributable to regulated service	
18		Compressors	
19		Directly attributable	
20		Not directly attributable	
21		Total attributable to regulated service	
22		Main-line valves	
23		Directly attributable	
24		Not directly attributable	
25		Total attributable to regulated service	
26		Special crossings	
27		Directly attributable	
28		Not directly attributable	
29		Total attributable to regulated service	
30		Other network assets	
31		Directly attributable	
32		Not directly attributable	
33		Total attributable to regulated service	
34		Non-network assets	
35		Directly attributable	
36		Not directly attributable	
37		Total attributable to regulated service	
38			
39		Regulated service asset value directly attributable	
40		Regulated service asset value not directly attributable	
41		Total closing RAB value	

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.

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36	Land management and associated activity										
37	Insert cost description	e.g. ABAA	Allocator 1	[Select one]						-	
38	Insert cost description	e.g. ABAA	Allocator 2	[Select one]						-	
39	Insert cost description	e.g. ABAA	Allocator 3	[Select one]						-	
40	Insert cost description	e.g. ABAA	Allocator 4	[Select one]						-	
41	Not directly attributable							-	-	-	-
42											
43	System operations										
44	Insert cost description	e.g. ABAA	Allocator 1	[Select one]						-	
45	Insert cost description	e.g. ABAA	Allocator 2	[Select one]						-	
46	Insert cost description	e.g. ABAA	Allocator 3	[Select one]						-	
47	Insert cost description	e.g. ABAA	Allocator 4	[Select one]						-	
48	Not directly attributable							-	-	-	-
49	Network support										
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	Business 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											
62	Operating costs not directly attributable							-	-	-	-
63	Pass through and recoverable costs										
64	Pass through costs										
65	Insert cost description	e.g. ABAA	Allocator 1	[Select one]						-	
66	Insert cost description	e.g. ABAA	Allocator 2	[Select one]						-	
67	Insert cost description	e.g. ABAA	Allocator 3	[Select one]						-	
68	Insert cost description	e.g. ABAA	Allocator 4	[Select one]						-	
69	Not directly attributable							-	-	-	-
70	Recoverable 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	<i>* include additional rows if needed</i>										

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

7	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]"/>											
8												
9												
10					Allocator Metric (%)		Value allocated (\$000)			OVABAA allocation increase (\$000)		
11	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	
12	Pipes											
13	Insert asset description	e.g. ABAA	Allocator 1	[Select one]							-	
14	Insert asset description	e.g. ABAA	Allocator 2	[Select one]							-	
15	Insert asset description	e.g. ABAA	Allocator 3	[Select one]							-	
16	Insert asset description	e.g. ABAA	Allocator 4	[Select one]							-	
17	Not directly attributable							-	-	-	-	-
18	Stations											
19	Insert asset description	e.g. ABAA	Allocator 1	[Select one]							-	
20	Insert asset description	e.g. ABAA	Allocator 2	[Select one]							-	
21	Insert asset description	e.g. ABAA	Allocator 3	[Select one]							-	
22	Insert asset description	e.g. ABAA	Allocator 4	[Select one]							-	
23	Not directly attributable							-	-	-	-	-
24	Compressors											
25	Insert asset description	e.g. ABAA	Allocator 1	[Select one]							-	
26	Insert asset description	e.g. ABAA	Allocator 2	[Select one]							-	
27	Insert asset description	e.g. ABAA	Allocator 3	[Select one]							-	
28	Insert asset description	e.g. ABAA	Allocator 4	[Select one]							-	
29	Not directly attributable							-	-	-	-	-

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

Schedule 6a Report on Capital Expenditure for the Disclosure Year

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

40 6a(iv): System Growth and Asset Replacement and Renewal		System Growth	Asset Replacement and Renewal
		(\$000)	(\$000)
41			
42			
43	Pipes		
44	Compressor stations		
45	Other stations		
46	SCADA and communications		
47	Special crossings		
48	<i>Components of stations (where known)</i>		
49	Main-line valves		
50	Heating system		
51	Odourisation plants		
52	Coalescers		
53	Metering system		
54	Cathodic protection		
55	Chromatographs		
56	System growth and asset replacement and renewal expenditure	-	-
57	<i>less</i> Capital contributions funding system growth and asset replacement and renewal		
58	System growth and asset replacement and renewal less capital contributions	-	-
59			
60			
61	6a(v): Asset Relocations		
62	<i>Project or programme*</i>	(\$000)	(\$000)
63	[Description of material project or programme]		
64	[Description of material project or programme]		
65	[Description of material project or programme]		
66	[Description of material project or programme]		
67	[Description of material project or programme]		
68	<i>* include additional rows if needed</i>		
69	All other projects or programmes - asset relocations		
70	Asset relocations expenditure		-
71	<i>less</i> Capital contributions funding asset relocations		
72	Asset relocations less capital contributions		-
73	6a(vi): Quality of Supply	(\$000)	(\$000)
74	<i>Project or programme*</i>		
75	[Description of material project or programme]		
76	[Description of material project or programme]		
77	[Description of material project or programme]		
78	[Description of material project or programme]		
79	[Description of material project or programme]		
80	<i>* include additional rows if needed</i>		
81	All other projects or programmes - quality of supply		
82	Quality of supply expenditure		-
83	<i>less</i> Capital contributions funding quality of supply		
84	Quality of supply less capital contributions		-

85	6a(vii): Legislative and Regulatory		
86	<i>Project or programme*</i>	(\$000)	(\$000)
87	[Description of material project or programme]		
88	[Description of material project or programme]		
89	[Description of material project or programme]		
90	[Description of material project or programme]		
91	[Description of material project or programme]		
92	<i>* include additional rows if needed</i>		
93	All other projects or programmes - legislative and regulatory		
94	Legislative and regulatory expenditure		:
95	<i>less</i> Capital contributions funding legislative and regulatory		
96	Legislative and regulatory less capital contributions		:
97			
98	6a(viii): Other Reliability, Safety and Environment		
99	<i>Project or programme*</i>	(\$000)	(\$000)
100	[Description of material project or programme]		
101	[Description of material project or programme]		
102	[Description of material project or programme]		
103	[Description of material project or programme]		
104	[Description of material project or programme]		
105	<i>* include additional rows if needed</i>		
106	All other projects or programmes - other reliability, safety and environment		
107	Other reliability, safety and environment expenditure		:
108	<i>less</i> Capital contributions funding other reliability, safety and environment		
109	Other reliability, safety and environment less capital contributions		:
110			
111	6a(ix): Non-Network Assets		
112	Routine expenditure		
113	<i>Project or programme*</i>	(\$000)	(\$000)
114	[Description of material project or programme]		
115	[Description of material project or programme]		
116	[Description of material project or programme]		
117	[Description of material project or programme]		
118	[Description of material project or programme]		
119	<i>* include additional rows if needed</i>		
120	All other projects or programmes - routine expenditure		
121	Routine expenditure		:
122	Atypical expenditure		
123	<i>Project or programme*</i>	(\$000)	(\$000)
124	[Description of material project or programme]		
125	[Description of material project or programme]		
126	[Description of material project or programme]		
127	[Description of material project or programme]		
128	[Description of material project or programme]		
129	<i>* include additional rows if needed</i>		
130	All other projects or programmes - atypical expenditure		
131	Atypical expenditure		:
132			
133	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		
9	Routine and corrective maintenance and inspection		
10	Asset replacement and renewal		
11	Compressor fuel		
12	Land management and associated activity		
13	Network opex		-
14	System operations		
15	Network support		
16	Business support		
17	Non-network opex		-
18			
19	Operational expenditure		-
20	6b(ii): Subcomponents of Operational Expenditure (where known)		
21	Research and development		
22	Insurance		

Schedule 7 Comparison of Forecasts to Actual Expenditure

	<i>Company Name</i>			
	<i>For Year Ended</i>			
SCHEDULE 7: COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE				
<p>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.</p> <p>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.</p>				
<i>sch ref</i>				
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	Forecast (\$000) ²	Actual (\$000)	% variance
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)	Forecast (\$000) ²	Actual (\$000)	% variance
37	Research and development	-	-	-
38				
39	7(v): Subcomponents of Operational Expenditure (where known)	Forecast (\$000) ²	Actual (\$000)	% variance
40	Research and development	-	-	-
41	Insurance	-	-	-
42				
43	<p>¹ From the nominal dollar target revenue for the pricing year disclosed under clause 2.4.3(3) of this determination</p>			
44	<p>² from the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2.6.6 for the forecast period starting at the beginning of the disclosure year (the second to last disclosure of Schedules 11a and 11b)</p>			

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	8(i): Billed quantities by contract type							
9								
10		Billed quantities - Gas throughput billed*	Billed quantities - Reserved capacity billed*	Billed quantities - Overrun charges billed*	Billed quantities - Approved Nominations billed**	Billed quantities - Σ (Approved Nominations x distance) billed**	Add extra columns for additional billed quantities as necessary	
11	Contract type	Units	Units	Units	Units	Units		
12	<input type="text" value="[Select one]"/>							
13	<input type="text" value="[Select one]"/>							
14	<i>Add extra rows for additional contract types as necessary</i>							
15	Totals for all contracts	-	-	-	-	-		
16								
17	8(ii): Line charge revenues (\$000) by contract type							
18								
19	Contract type	Total line charge revenue in disclosure year	Gas throughput revenue*	Reserved capacity revenue*	Overrun charges revenue*	Approved Nominations revenue**	Σ (Approved Nominations x distance) revenue**	Add extra columns for additional line charge revenues as necessary
20	<input type="text" value="[Select one]"/>	-						Notional revenue foregone from posted discounts (if applicable)
21	<input type="text" value="[Select one]"/>	-						
22	<i>Add extra rows for additional contract types as necessary</i>							
23	Totals for all contracts							
24	*Vector only							
25	**MDL only							
26								

Schedule 9a Asset Register

Company Name
For Year Ended

SCHEDULE 9a: ASSET REGISTER

This schedule requires a summary of the quantity of assets that make up the network, by asset category and asset class.

sch ref

	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	Scrapper 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 driven	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	Odorisation plants	Odorisation 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.

sch ref

	Transmission system	System length (km) (at year end)	Weighted average pipe diameter (mm)	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 connection points
7								
8	[Transmission system 1]							
9	[Transmission system 2]							
10	[Transmission system 3]							
11	[Transmission system 4]							
12	[Transmission system 5]							
13	[Transmission system 6]							
14	Total							

Length by assigned location class (km)

Secondary location class

	Sensitive Use (S)	Industrial (I)	Heavy Industrial (HI)	Common Infrastructure Corridor (CIC)	Submerged (W)	Total (km) (at year end) *	Percentage of total
15							
16							
17							
18							
19							
20							
21							

* 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 <input style="width: 150px;" type="text"/>
						For Year Ended <input style="width: 150px;" type="text"/>
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)						
sch ref						
7	9d(i): New Connections					
8						Number of new connections
9	Connection types defined by GTB					
10	<input type="text" value="[GTB connection type]"/>					
11	<input type="text" value="[GTB connection type]"/>					
12	<input type="text" value="[GTB connection type]"/>					
13	<input type="text" value="[GTB connection type]"/>					
14	* include additional rows if needed					
15	Connections total	<input style="width: 100px;" type="text"/>				
16						
17	9d(ii): Gas Volumes and Connections					
18						Intake volume (TJ)
19						Quantity of gas delivered (TJ)
20						Number of connection points
21	Connection types defined by GTB					
22	<input type="text" value="[GTB connection type]"/>					
23	<input type="text" value="[GTB connection type]"/>					
24	<input type="text" value="[GTB connection type]"/>					
25	<input type="text" value="[GTB connection type]"/>					
26	* include additional rows if needed					
27	Total	<input style="width: 100px;" type="text"/>				
28						
29	9d(iii): Gas conveyed					
30						(TJ)
31	Intake volume (TJ)	<input style="width: 100px;" type="text"/>				
32	Quantity of gas delivered (TJ)	<input style="width: 100px;" type="text"/>				
33	Gas used in compressor stations (TJ)	<input style="width: 100px;" type="text"/>				
34	Gas used in heating systems (TJ)	<input style="width: 100px;" type="text"/>				
35	Change in line pack (TJ)	<input style="width: 100px;" type="text"/>				
36	Vented gas (TJ)	<input style="width: 100px;" type="text"/>				
37	Unaccounted for gas (TJ)	<input style="width: 100px;" type="text"/>				
38	Total gas conveyed (TJ)	<input style="width: 100px;" type="text"/>				
39						
40	9d(iv): Unaccounted for Gas					
41						Intake volume (TJ)
42						Interconnected system intake (TJ)
43						Interconnected intake systems (name)
44	Transmission system	Gas entering the system (TJ)	Unaccounted for gas (TJ)	Unaccounted for gas (%)	Intake volume (TJ)	
45	<input type="text" value="[Transmission system 1]"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>
46	<input type="text" value="[Transmission system 2]"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>
47	<input type="text" value="[Transmission system 3]"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>
48	<input type="text" value="[Transmission system 4]"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>
49	<input type="text" value="[Transmission system 5]"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>
50	<input type="text" value="[Transmission system 6]"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>
51	Total	<input style="width: 100px;" type="text"/>				<input style="width: 100px;" type="text"/>

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
15	Duration (hrs)		
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		
26	due to consumer flows exceeding approved quantities		
27	caused by equipment failure		
28	caused by third parties		
29	Total		
30	10a(ii): Compressor Availability		
31			
32	Compressor station code/name	Compressor unit ID	Number of hours the compressor ran
33	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
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

<p>Company Name</p> <p>For Year Ended</p>	
<p>SCHEDULE 10b: REPORT ON NETWORK INTEGRITY</p> <p>This schedule requires a summary of the key measures of network integrity (product control, gas escapes, RTEs) for the disclosure year.</p>	
<i>sch ref</i>	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	

Product control	
Number of incidents relating to pressure	
Number of incidents relating to gas specification	
Number of incidents relating to odourisation	
Response time to emergencies (RTE)	
Proportion of emergencies responded to within 3 hours (%)	
Average call response time (hours)	
Number of emergencies	
Gas leaks	
Number of confirmed public reported gas escapes per system length (escapes/1000 km)	
Number of confirmed gas leaks caused by a third party per system length (escapes/1000 km)	
Number of gas leaks detected by the GTB	
Number of gas leaks that did not result in disruption to supply	

Schedule 11a Report on Forecast Capital Expenditure

		Company Name										
		AMP Planning Period										
sch ref		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10
	11a(i): Expenditure on Assets Forecast	\$'000 (nominal dollars)										
7	Consumer connection											
8	System growth											
9	Asset replacement and renewal											
10	Asset relocations											
11	Reliability, safety and environment:											
12	Quality of supply											
13	Legislative and regulatory											
14	Other Reliability, Safety and Environment											
15	Total reliability, safety and environment											
16	Expenditure on network assets											
17	Expenditure on non-network assets											
18	Expenditure on assets											
19	plus											
20	Cost of financing											
21	less											
22	Value of capital contributions											
23	Value of vested assets											
24	plus											
25	Capital expenditure forecast											
26	Assets commissioned											
27												
28												
29												
30												
31												
32												
33	Consumer connection											
34	System growth											
35	Asset replacement and renewal											
36	Asset relocations											
37	Reliability, safety and environment:											
38	Quality of supply											
39	Legislative and regulatory											
40	Other Reliability, Safety and Environment											
41	Total reliability, safety and environment											
42	Expenditure on network assets											
43	Expenditure on non-network assets											
44	Expenditure on assets											
45	Subcomponents of expenditure on assets (where known)											
46	Research and development											

	Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10
47											
48											
49											
50											
51											
52											
53											
54											
55											
56											
57											
58											
59											
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84											
85											

	Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
5000						
Consumer connection						
System growth						
Asset replacement and renewal						
Asset relocations						
Reliability, safety and environment:						
Quality of supply						
Legislative and regulatory						
Other Reliability, Safety and Environment						
Total reliability, safety and environment						
Expenditure on network assets						
Expenditure on non-network assets						
Expenditure on assets						

	Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
11a(ii): Consumer Connection						
<i>Consumer types defined by GTB*</i>						
[GTB consumer type]						
[GTB consumer type]						
[GTB consumer type]						
[GTB consumer type]						
* include additional rows if needed						
Consumer connection expenditure						
Capital contributions funding consumer connection						
Consumer connection less capital contributions						

	Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
11a(iii): System Growth						
Pipes						
Compressor stations						
Other stations						
SCADA and communications						
Special crossings						
System growth expenditure						
Capital contributions funding system growth						
System growth less capital contributions						

		\$000 (in constant prices)			
86	11a(iv): Asset Replacement and Renewal				
87					
88	Pipes				
89	Compressor stations				
90	Other stations				
91	SCADA and communications				
92	Special crossings				
93	<i>Components of stations (where known)</i>				
94	Main-line valves				
95	Heating system				
96	Odourisation plants				
97	Coalescers				
98	Metering system				
99	Cathodic protection				
100	Chromatographs				
101	Asset replacement and renewal expenditure				
102	less Capital contributions funding asset replacement and renewal				
103	Asset replacement and renewal less capital contributions				
104	11a(v): Asset Relocations				
105	Project or programme*				
106	[Description of material project or programme]				
107	[Description of material project or programme]				
108	[Description of material project or programme]				
109	[Description of material project or programme]				
110	[Description of material project or programme]				
111	* include additional rows if needed				
112	All other projects or programmes - asset relocations				
113	Asset relocations expenditure				
114	less Capital contributions funding asset relocations				
115	Asset Relocations less capital contributions				
116	11a(vi): Quality of Supply				
117	Project or programme*				
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	* include additional rows if needed				
124	All other projects or programmes - quality of supply				
125	Quality of supply expenditure				
126	less Capital contributions funding quality of supply				
127	Quality of supply less capital contributions				
128					

		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
129	11a(vii): Legislative and Regulatory						
130	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	*Include additional rows if needed						
137	All other projects or programmes - legislative and regulatory						
138	Legislative and regulatory expenditure						
139	less						
140	Capital contributions funding legislative and regulatory						
141	Legislative and regulatory less capital contributions						
142							
143	11a(viii): Other Reliability, Safety and Environn						
144	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	[Description of material project or programme]						
150	*Include additional rows if needed						
151	All other projects or programmes - other reliability, safety and environment						
152	Other reliability, safety and environment total						
153	less						
154	Capital contributions funding other reliability, safety and environment						
155	Other reliability, safety and environment less capital contributions						
156							
157	11a(ix): Non-Network Assets						
158	Routine expenditure						
159	Project or programme*						
160	[Description of material project or programme]						
161	[Description of material project or programme]						
162	[Description of material project or programme]						
163	[Description of material project or programme]						
164	[Description of material project or programme]						
165	*Include additional rows if needed						
166	All other projects or programmes - routine expenditure						
167	Routine expenditure						
168	Atypical expenditure						
169	Project or programme*						
170	[Description of material project or programme]						
171	[Description of material project or programme]						
172	[Description of material project or programme]						
173	[Description of material project or programme]						
174	[Description of material project or programme]						
175	*Include additional rows if needed						
176	All other projects or programmes - atypical expenditure						
177	Atypical expenditure						
178	Expenditure on non-network assets						
179							

Schedule 11b Report on Forecast Operational Expenditure

		Company Name										
		AMP Planning Period										
sch ref		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10
			\$'000 (in nominal dollars)									
7												
8												
9												
10	Operational Expenditure Forecast											
11	Service interruptions, incidents and emergencies											
12	Routine and corrective maintenance and inspection											
13	Asset replacement and renewal											
14	Compressor fuel											
15	Land management and associated activity											
16	Network opex											
17	System operations											
18	Network support											
19	Business support											
20	Non-network opex											
21	Operational expenditure											
22												
23												
24												
25	Service interruptions, incidents and emergencies											
26	Routine and corrective maintenance and inspection											
27	Asset replacement and renewal											
28	Compressor fuel											
29	Land management and associated activity											
30	Network opex											
31	System operations											
32	Network support											
33	Business support											
34	Non-network opex											
35	Operational expenditure											
36												
37	Subcomponents of operational expenditure (where known)											
38	Research and Development											
39	Insurance											
40												
41												
42	Difference between nominal and real forecasts											
43	Service interruptions, incidents and emergencies											
44	Routine and corrective maintenance and inspection											
45	Asset replacement and renewal											
46	Compressor fuel											
47	Land management and associated activity											
48	Network opex											
49	System operations											
50	Network support											
51	Business support											
52	Non-network opex											
53	Operational expenditure											

Schedule 12a Report on Asset Condition

<p>SCHEDULE 12a: REPORT ON ASSET CONDITION</p> <p>This schedule requires a breakdown of asset condition by asset class as at the start of the forecast year. The data accuracy assessment relates to the percentage values disclosed in the asset condition columns. Also required is a forecast of the percentage of units to be replaced in the next 5 years. All information should be consistent with the information provided in the AMP and the expenditure on assets forecast in Schedule 11a.</p>		Asset condition at start of planning period (percentage of units by grade)						Data accuracy (1-4)	% of asset forecast to be replaced in next 5 years	
		Grade 1	Grade 2	Grade 3	Grade 4	Grade unknown	Units			
7	<p style="text-align: center;">Company Name</p> <p style="text-align: center;">AMP Planning Period</p>									
8	Asset category	Asset class	Units	Grade 1	Grade 2	Grade 3	Grade 4	Grade unknown	Data accuracy (1-4)	% of asset forecast to be replaced in next 5 years
9	Pipes	Protected steel pipes	km						[Select one]	
10	Pipes	Special crossings	km						[Select one]	
11	Stations	Compressor stations	No.						[Select one]	
12	Stations	Offtake point	No.						[Select one]	
13	Stations	Scraper stations	No.						[Select one]	
14	Stations	Intake points	No.						[Select one]	
15	Stations	Metering stations	No.						[Select one]	
16	Compressors	Compressors—turbine driven	No.						[Select one]	
17	Compressors	Compressors—electric motor driven	No.						[Select one]	
18	Compressors	Compressors—reciprocating engine driven	No.						[Select one]	
19	Main-line valves	Main line valves manually operated	No.						[Select one]	
20	Main-line valves	Main line valves remotely operated	No.						[Select one]	
21	Heating systems	Gas-fired heaters	No.						[Select one]	
22	Heating systems	Electric heaters	No.						[Select one]	
23	Odourisation plants	Odourisation plants	No.						[Select one]	
24	Coalescers	Coalescers	No.						[Select one]	
25	Metering systems	Meters—ultrasonic	No.						[Select one]	
26	Metering systems	Meters—rotary	No.						[Select one]	
27	Metering systems	Meters turbine	No.						[Select one]	
28	Metering systems	Meters—mass flow	No.						[Select one]	
29	SCADA and communications	Remote terminal units (RTU)	No.						[Select one]	
30	SCADA and communications	Communications terminals	No.						[Select one]	
31	Cathodic protection	Rectifier units	No.						[Select one]	
32	Chromatographs	Chromatographs	No.						[Select one]	

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]							
<i>sch ref</i>		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	<i>* include additional rows if needed</i>						
17	Connections total						
18							
19	12b(ii): Gas conveyed						
20							
21							
22							
23	Intake volume (TJ)						
24	Quantity of gas delivered (TJ)						
25	Gas used in compressor stations (TJ)						
26	Gas used in heating systems (TJ)						
27	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 on Asset Management Maturity 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.*

<p style="text-align: right;">Company Name _____</p> <p style="text-align: right;">AMP Planning Period _____</p> <p style="text-align: right;">Asset Management Standard Applied _____</p>								
<p>SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY</p> <p>This schedule requires information on the GTB'S self-assessment of the maturity of its asset management practices .</p>								
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).

<p style="text-align: right;">Company Name _____ AMP Planning Period _____ Asset Management Standard Applied _____</p>							
<p>SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)</p>							
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.

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/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="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
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.

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/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 <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
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.

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	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.

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)							
						<i>Company Name</i>	
						<i>AMP Planning Period</i>	
						<i>Asset Management Standard Applied</i>	
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/documented 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?				<p>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.</p> <p>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.</p>	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?				<p>The response to the questions is progressive. A higher scale cannot be awarded without achieving the requirements of the lower scale.</p> <p>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).</p>	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							
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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 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.

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/document 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.

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/document 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 contractors 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.

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
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="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
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 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. 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 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 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:

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 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 ~~2.3.62-3.7~~(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 9d(ii) and 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 information about amendments to previously disclosed information disclosed in accordance with clause 2.12.1 in the last 7 years, including:

20.1 a description of each error; and

20.2 for each error, reference to the web address where the disclosure made in accordance with clause 2.12.1 is publicly disclosed.

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 2.6.6.
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	<p>means-</p> $q = \frac{a - b}{b} \times 100$ <p>where:</p> <p><i>a</i> = actual expenditure</p> <p><i>b</i> = forecast expenditure</p>
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	<p>means, in relation to-</p> <p>(a) a disclosure year, expenditure for that disclosure year</p> <p>(b) the regulatory period, expenditure for the disclosure years from the start of the regulatory period to the current disclosure year</p>

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	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 (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
Asset or assets with changes to depreciation	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- (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 (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(3) of the IM determination (d) the GTB chooses to disclose details about the asset(s) depreciation profile (e) 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
Assets acquired from a regulated supplier	means- (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; (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
Assets acquired from a related party	means- (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; (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
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: <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 is '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	<p>means the subclause under either:</p> <p>(a) clause 2.2.11(5) of the IM determination; or</p> <p>(b) clauses 2.3.67 or 2.3.78 of this determination</p> <p>applied in the valuation of the related party transactions</p>
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 for a network or a transmission system, 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 network or transmission system (as the case may be) 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- (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 2.3.56(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 category of connection as defined by the GTB that describes a type of connection point. 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.
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)	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 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 in paragraph (a) of the defined term in the IM determination
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 2.3.45(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 2.3.45(4)(b) of the IM determination
Expenses cash outflow	means operational expenditure plus pass through and recoverable costs excluding financial incentives and wash-ups
Financial incentives	means net recoverable costs allowed under net incremental rolling incentive scheme and other financial incentives

Forecast expenditure	means, in relation to- (a) current disclosure year, the forecast expenditure for the current disclosure year disclosed pursuant to subclauses 2.6.6(1) and 2.6.6(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 2.6.6(1) and 2.6.6(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
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 than below), means- $q = a - b$ where a = total sale price of the assets b = asset disposals (other than below)
Gas entering the system (TJ)	means for a transmission system, the sum of intake volume (TJ) and interconnected system intake (TJ) for that system
Gas used in compressor stations (TJ)	means for a network or a transmission system, the volume of gas used in the operation of compressor stations on that network or transmission system (as the case may be). Expressed in TJ
Gas used in heating systems (TJ)	means for a network or a transmission system, the volume of gas used in the operation of heating systems outside of compressor stations on that network or transmission system (as the case may be). 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
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

Impact of financial incentives on ROIs	means- $q = a - b$ where <i>a</i> = ROI – comparable to a vanilla WACC – reflecting all revenue earned <i>b</i> = ROI – comparable to a vanilla WACC - excluding revenue earned from financial incentives
Impact of wash-up costs on ROIs	means- $q = a - b$ where <i>a</i> = ROI – comparable to a vanilla WACC – excluding revenue earned from financial incentives <i>b</i> = ROI – comparable to a vanilla WACC – excluding revenue earned from financial incentives and wash-up costs
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 excluding total revaluations (b) in relation to temporary differences, income included in regulatory profit / (loss) before tax but not taxable as determined in accordance with clause 2.3.45(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 2.3.45(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)(ii)-(iii) of the IM determination
Input methodology claw back	means a cost specified in clause 3.1.3(1)(b) of the IM determination
Insurance	means a contract of insurance as defined in the Insurance (Prudential Supervision) Act 2010

Intake volume	means for a network or a transmission system, the volume of gas entering the network or the transmission system (as the case may be) at intake points on that network or system. The quantity of gas for bidirectional connection points shall be the gross volume entering the network or the system. Expressed in TJ
Interconnected intake systems	means for a transmission system, the names of other transmission systems owned by the same GTB from which gas enters that system through direct interconnections.
Interconnected system intake (TJ)	means for a transmission system, the gross volume of gas entering that system through direct interconnections with other transmission systems owned by the same GTB. Expressed in TJ
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 item	has the meaning given in the IM determination
Market value of asset disposals	means the market value of disposed assets sold or transferred to a related party
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
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 expenses 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	means the internal rate of return for a schedule of cash flows that occur according to a schedule of dates where the schedules of cash flows and dates are- <table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;"><u>Cash flows</u></th> <th style="text-align: left; border-bottom: 1px solid black;"><u>Dates</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>	<u>Cash flows</u>	<u>Dates</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
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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- <ol style="list-style-type: none"> (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 • 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) • contractor/contracts management (excluding costs capitalised) • transmission operator liaison and management • network related research and development
New allocation	means the operating costs or regulated service asset values 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 intake points and offtake points, with each bidirectional point included and counted as a single point
Number of new connections	means the number of new intake points and offtake points commissioned during the disclosure year, with each new bidirectional point included and counted as a single point
Odorisation plant	means a plant where an odorant 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 2.3.56(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 excluding financial incentives and wash-ups
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 financial incentives	means recoverable costs specified by the Commission under clause 53V(2)(c) of the Act, and classified by the Commission as a financial incentive
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
Other recoverable costs excluding financial incentives and wash-ups	means recoverable costs specified by the Commission under clause 53V(2)(c) of the Act, excluding other financial incentives and other wash-ups
Other regulated income	has the meaning given in the IM determination
Other regulated income (other than gains / (losses) on asset disposals	means other regulated income excluding gains / (losses) on asset disposals
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
Other wash-ups	means recoverable costs specified by the Commission under clause 53V(2)(c) of the Act, and classified by the Commission as a wash-up
OVABAA allocation increase	has the meaning given in the IM determination
Pass through and recoverable costs excluding financial incentives and wash-up costs	means the sum of (a) rates; (b) Commerce Act levies; (c) industry levies; (d) CPP specified pass through costs; (e) balancing gas costs; and (f) other recoverable costs excluding financial incentives and wash-ups
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 for a network or a transmission system, the volume of gas delivered to offtake points on that network or transmission system (as the case may be). The quantity of gas for bidirectional connection points shall be the gross volume delivered. 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 costs specified in either clause 3.1.3(b), (c), (d), (e), (f), (g) or (h) of the IM determination
Regulated supplier	has the meaning given in the IM determination
Regulatory investment value	means opening RIV
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) 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 profit / (loss) including financial incentives and wash-ups	means the regulatory profit / (loss) before tax less the regulatory tax allowance less the term credit spread differential
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	<p>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-</p> <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	<p>means-</p> <p>(a) in relation to the ROI – comparable to a post tax WACC reflecting all revenue earned</p> $q = a - (d \times e \times f)$ <p>(b) in relation to the ROI – comparable to a post tax WACC excluding revenue earned from financial incentives</p> $q = b - (d \times e \times f)$ <p>(c) in relation to the ROI – comparable to a post tax WACC excluding revenue earned from financial incentives and wash-ups</p> $q = c - (d \times e \times f)$ <p>where</p> <p>a = ROI – comparable to a vanilla WACC reflecting all revenue earned</p> <p>b = ROI – comparable to a vanilla WACC excluding revenue earned from financial incentives</p> <p>c = ROI – comparable to a vanilla WACC excluding revenue earned from financial incentives and wash-ups</p> <p>d = cost of debt assumption</p> <p>e = leverage</p> <p>f = corporate tax rate</p>

<p>ROI – comparable to a vanilla WACC</p>	<p>means the internal rate of return for a schedule of cash flows that occur according to a schedule of dates where the schedules of cash flows and dates-</p> <p>(a) in relation to the ROI – comparable to a vanilla WACC reflecting all revenue earned, are-</p> <table data-bbox="517 443 1326 651"> <thead> <tr> <th><u>Cash flows</u></th> <th><u>Dates</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>(b) in relation to the ROI – comparable to a vanilla WACC excluding revenue earned from financial incentives, are-</p> <table data-bbox="517 808 1326 1088"> <thead> <tr> <th><u>Cash flows</u></th> <th><u>Dates</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 less (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> <p>(c) in relation to the ROI – comparable to a vanilla WACC excluding revenue earned from financial incentives and wash-ups, are-</p> <table data-bbox="517 1245 1326 1563"> <thead> <tr> <th><u>Cash flows</u></th> <th><u>Dates</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 less (financial incentives and wash-ups multiplied by the corporate tax rate))</td> <td>182 days before year-end</td> </tr> <tr> <td>Line charge revenue less financial incentives and wash-up costs</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>Cash flows</u>	<u>Dates</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>Cash flows</u>	<u>Dates</u>	- Opening RIV	365 days before year-end	- (Mid-year net cash outflows less (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>Cash flows</u>	<u>Dates</u>	- Opening RIV	365 days before year-end	- (Mid-year net cash outflows less (financial incentives and wash-ups multiplied by the corporate tax rate))	182 days before year-end	Line charge revenue less financial incentives and wash-up costs	148 days before year-end	- Term credit spread differential allowance	Year-end	Closing RIV	Year-end
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<p>Routine expenditure</p>	<p>means expenditure on assets related to non-network assets that is not atypical expenditure</p>																																				
<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 2.3.45(3) of the IM determination
Tax effect	has the meaning given in 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), gas used in heating systems and vented gas (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 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 2.3.62-3.7 and 2.3.72-3.8 of this determination
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: (a) for a network, the sum of: intake volume (TJ), minus change in line pack (TJ), minus total gas conveyed (TJ) for that network; and (b) for a transmission system, the sum of: intake volume (TJ), plus the net volume of gas entering or leaving that system through direct interconnections with other transmission systems owned by the same GTB, where net inflows are positive and net outflows are negative, minus change in line pack (TJ), minus total gas conveyed (TJ) for that transmission system. 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 2.3.62-3.7 and 2.3.72-3.8 of this determination

Vented gas	means for a network or a transmission system, any quantity of gas estimated to have been (deliberately or otherwise) vented from that network or transmission system (as the case may be) during the disclosure year. Expressed in TJ
WACC rate used to set regulatory price path	means- (a) in relation to a GTB subject to a section 52P determination setting out the requirements of a default price-quality path, the WACC estimate determined in accordance with clause 4.4.7(1) of the IM determination for the DPP regulatory period the disclosure year falls within; (b) in relation to a GTB subject to an amendment to a section 52P determination setting out the requirements of a CPP, the WACC estimate used to set that CPP determination for the disclosure year
Wash-up costs	means the sum of- (a) input methodology claw-back; (b) recoverable customised price-quality path costs; and (c) other wash-ups
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 segments that form the transmission system
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	means: $q = \frac{a - (b + c)}{d + (e \times .5)}$ where: <i>a</i> = Regulatory profit / (loss) including financial incentives and wash-ups <i>b</i> = Financial incentives <i>c</i> = Wash-ups <i>d</i> = Opening RIV <i>e</i> = Assets commissioned

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 clauses 2.6.1, 2.6.3, 2.6.6 and 2.7.2 ~~*[and subclause 2.13.7(1)(b)]~~ of the Gas Transmission Information Disclosure Determination 2012 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 2012 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 and 2.7.1 of the Gas Transmission Information Disclosure Determination 2012 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 ~~2.3.6(1)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), ~~2.3.6(2)(f)2.3.7(2)(f)~~ and ~~2.3.7(2)(b)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]