

# GasNet Australia Access Arrangement

Commencement Date: *[insert]*

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# GasNet Australia Access Arrangement

## Details

*[Important Note: This draft Access Arrangement is subject to ACCC approval.]*

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<b>Covered Pipeline</b>	GasNet System (“GNS”)	
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<b>Lodged by</b>	GasNet Australia (Operations) Pty Ltd ABN 65 083 009 278 (“GasNet”)	
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<b>Commencement Date</b>	1 January 2003	
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<b>End Date</b>	31 December 2007	
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# GasNet Australia Access Arrangement

## General

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### **1 Introduction**

#### **1.1 Purpose**

This Access Arrangement is established by GasNet for the GNS.

[This Access Arrangement (as revised) has been approved by the Commission under section 2.41 of the Code.]

#### **1.2 Access to GNS**

The GNS is a Covered Pipeline under the Code.

Together, this Access Arrangement and the VENCORP Access Arrangement set out the policies, tariffs and basic terms and conditions which apply to third party access to the GNS.

#### **1.3 Description of the GNS**

The GNS is a high pressure gas transmission network which transports natural gas within Victoria and to New South Wales via the Interconnect Pipeline. As at 1 January 2003, the GNS:

- (a) comprised approximately 1,930 km of pipelines;
- (b) had four main injection points at:
  - (i) Longford (the site of the Esso/BHP Billiton processing facility);
  - (ii) Culcairn (the interconnection with the Moomba-Sydney Pipeline System);
  - (iii) Port Campbell (the injection point for WUGS and local fields); and
  - (iv) Dandenong (the site of the LNG facility); and
- (c) served a total consumption base of approximately 1.4 million residential consumers and approximately 43,000 industrial and commercial consumers in Melbourne and regional Victoria.

The GNS is described more fully in Schedule 5 of this Access Arrangement.

#### **1.4 One system, two access arrangements**

As described in clause 3, there are two Service Providers (as defined in the Code) with respect to the GNS:

- (a) GasNet is the owner of the GNS and is responsible for the maintenance of the GNS; and
- (b) VENCORP is the operator of the GNS under the market carriage regime established by the MSO Rules.

As a result, this Access Arrangement must be read in conjunction with the VENCORP Access Arrangement. In particular, as operator, VENCORP is responsible for the registration of and day-to-day coordination with Users of the GNS. A copy of the VENCORP Access Arrangement is available from VENCORP's web site at [www.vencorp.com.au](http://www.vencorp.com.au).

Under section 10.2 of the Code, there has been an allocation of obligations between GasNet, as owner of the GNS, and VENCORP as operator of the system, which is reflected in this Access Arrangement and the VENCORP Access Arrangement.

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## **2 Term**

### **2.1 Commencement**

This Access Arrangement (as revised) commences on *[insert]*.

### **2.2 Revisions Submission Date**

The Revisions Submission Date is 31 March 2007.

### **2.3 Revisions Commencement Date**

The Revisions Commencement Date is 1 January 2008.

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## **3 Services Policy**

### **3.1 Relationship with VENCORP**

GasNet owns the GNS and VENCORP operates the GNS.

Access to the GNS for Users is governed by the MSO Rules, which establish a market carriage regime for the transportation of gas. In order to obtain access to the GNS, a User must register with VENCORP as a Market Participant under the MSO Rules. As a result, VENCORP has the direct legal relationship with Market Participants regarding access to the GNS.

In order to provide access to the GNS under the MSO Rules, VENCORP obtains the availability of the GNS from GasNet. GasNet and VENCORP are parties to the Service Envelope Agreement, under which:

- (a) GasNet:
  - (i) makes available the entire GNS to VENCORP; and
  - (ii) provides a range of supporting services to VENCORP; and

- (b) VENCORP:
  - (i) operates the GNS in accordance with the MSO Rules; and
  - (ii) agrees to direct Market Participants to pay the Transmission Tariffs directly to GasNet.

### **3.2 Reference Service**

GasNet will make available a single Reference Service comprising the Tariffed Transmission Service, being the availability of the GNS.

### **3.3 Terms and Conditions**

The terms and conditions on which GasNet will supply the Tariffed Transmission Service are the same as those set out in the Service Envelope Agreement and the MSO Rules.

### **3.4 Existing contractual obligations**

The Service Envelope Agreement includes firm and binding contractual obligations of GasNet and VENCORP. VENCORP is an existing User of the GNS.

GasNet is not required to provide any services or take any steps that are inconsistent with or adversely affect the performance of:

- (a) GasNet's obligations under the Service Envelope Agreement; or
- (b) VENCORP's obligations under the Service Envelope Agreement.

### **3.5 Availability of Service Envelope Agreement**

From the commencement of this Access Arrangement Period, GasNet will make the Service Envelope Agreement, as in force from time to time available on its website, [www.gasnet.com.au](http://www.gasnet.com.au).

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## **4 Reference Tariff Policy - Transmission Tariffs**

### **4.1 Transmission Tariffs**

This Access Arrangement governs the Transmission Tariffs, being the Reference Tariff applicable to the Tariffed Transmission Service.

### **4.2 Initial Transmission Tariffs**

The initial Transmission Tariffs (excluding GST) are set out in Schedule 1.

The Transmission Tariffs comprise:

- (a) the rules and billing parameters set out in Schedule 1;
- (b) the GST-exclusive tariffs set out in Schedule 1 or as amended in accordance with this Access Arrangement;

- (c) the Transition Tariff Component described in clause 9; plus
- (d) an additional amount of GST calculated by multiplying the relevant tariffs by the prevailing GST rate.

#### **4.3 Tariff Path**

Transmission Tariffs may be altered in accordance with this clause 4 and the procedures and principles set out in Schedules 3 and 4.

The Transmission Tariffs may vary on the basis of a “price path” approach. Under this approach, a set of prices and a price control mechanism have been determined in advance which will allow the price to follow a path designed to deliver a forecast revenue stream, but the mechanism is not adjusted to account for subsequent events until the commencement of the next Access Arrangement Period except as provided for in clauses 4.4, 4.5 and 4.9.

#### **4.4 New Facilities Investment that satisfies section 8.16 of the Code**

The Transmission Tariffs have been determined on the basis of New Facilities Investment that is forecast to occur within the Second Access Arrangement Period and is reasonably expected to pass the requirements in section 8.16 of the Code.

In addition, under section 8.15 of the Code, GasNet may, at any time during the Second Access Arrangement Period, submit revisions to this Access Arrangement to increase the Capital Base of the GNS to recognise further New Facilities Investment that satisfies section 8.16 of the Code.

#### **4.5 New Facilities Investment that does not satisfy section 8.16 of the Code**

In addition to its other rights under the Code, GasNet may, at its discretion, undertake New Facilities Investment that does not satisfy the requirements of section 8.16 of the Code (“**Speculative Facilities**”).

If GasNet constructs Speculative Facilities, then:

- (a) the portion of the New Facilities Investment which does satisfy the requirements of section 8.16 of the Code (the “**Recoverable Portion**” under the Code) may, on a revision application by GasNet, be incorporated into the Capital Base of the GNS; and
- (b) an amount in respect of the balance of the New Facilities Investment forms part of the Speculative Investment Fund (as contemplated by the Code) and may be subsequently added to the Capital Base if, at any time, the type and volume of services provided using the increase in Capacity attributable to the Speculative Facilities change such that any part of the Speculative Investment Fund would then satisfy the requirements of section 8.16.

The amount of the Speculative Investment Fund is to be calculated in accordance with section 8.19 of the Code.



#### **4.6 Capital Redundancy**

The Commission may review, and if necessary, adjust the Capital Base (at the start of the Third Access Arrangement Period) to take account of wholly or partially redundant assets, being assets which:

- (a) as a whole no longer contribute to the provision of the Tariffed Transmission Service; or
- (b) have a reduced contribution to the provision of the Tariffed Transmission Service due to the partial redundancy of that asset.

#### **4.7 Incentive Mechanism**

As contemplated by section 8.44 of the Code, this Access Arrangement incorporates an incentive mechanism that permits GasNet to retain certain returns (if any) from the Transmission Tariffs during the Second Access Arrangement Period that exceed the level of returns expected at the beginning of the Second Access Arrangement Period.

In particular, Schedules 3 and 4 provide that the price path for the Transmission Tariffs, which is determined at the beginning of the Second Access Arrangement Period based on forecasts of all relevant variables, is not adjusted to account for subsequent events except as provided for in clauses 4.4, 4.5 and 4.9.

In addition, this Access Arrangement incorporates a rolling carryover incentive mechanism that permits GasNet to retain efficiency gains (losses) from the Second Access Arrangement Period in the Third Access Arrangement Period as discussed in clause 7.2.

#### **4.8 Fixed Principles**

The Fixed Principles applying to the Third Access Arrangement Period are set out in clause 7.

#### **4.9 Pass Through Events**

If a Pass Through Event occurs, then GasNet is entitled to amend the Transmission Tariffs to pass through the financial effect of the Pass Through Event in accordance with clause 6.

#### **4.10 Prudent discounts**

The Transmission Tariffs may be altered to reflect the prudent discounts for Withdrawals of gas referred to in clause 1.3(g) of Schedule 1. These prudent discounts will not come into operation unless:

- (a) GasNet has provided evidence to the Commission that there is a credible bypass risk; and
- (b) the Commission has approved the introduction of the prudent discounts.

#### **4.11 Tariff amendment**

To avoid doubt, any amendment to the Transmission Tariffs in the Second Access Arrangement Period made under or as contemplated by clauses 4.2, 4.3, 4.7, 4.9, 4.10 or 6:

- (a) constitutes an amendment under GasNet's Reference Tariff Policy; and
- (b) does not constitute a revision of this Access Arrangement under the Code.

#### **4.12 Self-insurance**

- (a) GasNet will self insure in respect of the following risks for the Second Access Arrangement Period:
  - (i) extortion and bomb threats; and
  - (ii) counter party and insurer credit risk.
- (b) Any losses incurred by GasNet in respect of the risks identified in paragraph (a) will not be included in calculating Reference Tariffs.

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## **5 Extensions and Expansions Policy**

### **5.1 Coverage**

- (a) Subject to clause 5.1(c), an Extension to, or Expansion of, the GNS is covered by this Access Arrangement.
- (b) Prior to an Extension or Expansion coming into service, GasNet will give notice to the Commission specifying:
  - (i) the location of the Extension or Expansion;
  - (ii) its costs (or, where these are not available, its anticipated costs);
  - (iii) a description of the Extension or Expansion, including, in the case of an Extension, its length; and
  - (iv) any other matter GasNet considers relevant.
- (c) An Extension will not be covered by this Access Arrangement if GasNet gives written notice to the Commission (which notice may be given together with a notice under clause 5.1(b)) before the Extension comes into service that the Extension will not be covered by this Access Arrangement.

### **5.2 Effect of extension/expansion on Reference Tariffs**

- (a) If an Extension to, or Expansion of, the GNS is covered by this Access Arrangement, then GasNet may, as contemplated by clauses 4.4 and 4.5 of this Access Arrangement, submit revisions to this

Access Arrangement under section 2.28 of the Code, seeking to increase the Capital Base for the GNS to recognise the actual capital costs incurred in constructing the Extension or Expansion.

- (b) Those revisions will be considered under the relevant provisions of the Code (including sections 8.15 to 8.19 of the Code) and, as contemplated by the Code, may result in the Capital Base being increased to reflect:
  - (i) the actual capital costs incurred in relation to the Extension or Expansion; or
  - (ii) if the New Facilities Investment does not satisfy the requirements of section 8.16, the Recoverable Portion.

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## **6 Pass Through Events**

### **6.1 Pass Through Event statement**

- (a) In relation to each Regulatory Year (t) after the Regulatory Year ending 31 December 2003, GasNet must, at least 50 Business Days before the start of that Regulatory Year (t) (ie, during Regulatory Year (t-1)), give a statement to the Commission stating whether or not there are any Pass Through Events that:
  - (i) have a financial effect on GasNet in the Second Access Arrangement Period; and
  - (ii) have not been previously notified to the Commission under this clause.
- (b) If the statement provided to the Commission under clause 6.1(a) identifies one or more Pass Through Events, then the statement must include, in relation to each of these Pass Through Events:
  - (i) details of the Pass Through Event concerned;
  - (ii) the date the Pass Through Event took or will take effect;
  - (iii) the financial effects of the Pass Through Event on GasNet; and
  - (iv) the Pass Through Amount GasNet proposes in relation to the Pass Through Event.
- (c) A statement given under clause 6.1(a) must include documentary evidence (if available) which substantiates the financial effects of the Pass Through Event. GasNet must use best endeavours to ensure that such information is available.
- (d) A statement given under clause 6.1(a) must also include a copy of all insurance premium invoices relating to the preceding Regulatory Year.

## **6.2 Commission's decision**

- (a) Upon receipt of a statement from GasNet under clause 6.1(a), the Commission must decide whether the Pass Through Event specified in the statement occurred or will occur, and if the Commission decides that the Pass Through Event occurred or will occur, then the Commission must decide:
  - (i) the Pass Through Amount; and
  - (ii) the manner in which the Pass Through Amount is to apply, and notify GasNet in writing of the Commission's decision.
- (b) The Commission must give a notice under clause 6.2(a) within 40 Business Days of receiving a statement from GasNet under clause 6.1(a). The Commission may, at its discretion, extend this period. An extension may be made:
  - (i) for a period of up to 40 Business Days;
  - (ii) on more than one occasion; and
  - (iii) by giving written notice to GasNet specifying the period of the extension.
- (c) If the Commission does not give a notice to GasNet under clause 6.2(a) within the period specified in clause 6.2(b) (including any extensions), then the Commission is taken to have notified GasNet of its decision under clause 6.2(a) that the Pass Through Amount and the manner in which the Pass Through Amount is to apply are as proposed in the statement given by GasNet under clause 6.1(a).

## **6.3 Factors the Commission must take into account**

- (a) In deciding the Pass Through Amount and the basis on which the Pass Through Amount is to apply under clause 6.2, the Commission must ensure that the financial effect on GasNet in the Second Access Arrangement Period associated with the Pass Through Event concerned is economically neutral taking into account:
  - (i) the financial effect to GasNet associated with the Tariffed Transmission Service attributable to the Pass Through Event concerned, and the time at which the financial effect arises;
  - (ii) in relation to a Change in Taxes Event, the amount of any change in another tax which, in the Commission's opinion, was introduced as complementary to the Change in Taxes Event concerned;
  - (iii) the effect of any other previous Pass Through Event since 1 January 2003 which has not previously been considered by the Commission under this clause 6.3.
  - (iv) any other factors the Commission considers relevant.

- (b) A Pass Through Amount may be positive or negative.

#### 6.4 How does GasNet apply a Pass Through Amount?

A Pass Through Amount approved (or deemed to be approved) by the Commission under clause 6.2 must be applied by GasNet in accordance with Schedule 4.

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## 7 Fixed Principles

In making a determination in relation to the Reference Tariff (or Reference Tariffs) with respect to GasNet for the Third Access Arrangement Period, the Commission must adopt the following Fixed Principles.

### 7.1 K factor carry-forward

The Commission must include in the Reference Tariffs for the Third Access Arrangement Period:

- (a) an allowance for  $KTa_t$  (as defined in Schedule 4) relating to 2007 as if Schedule 4 continued to apply in the Third Access Arrangement Period;
- (b) an allowance for  $KTb_t$  (as defined in Schedule 4) relating to each of 2006 and 2007 as if Schedule 4 continued to apply in the Third Access Arrangement Period.

These allowances must be based on actual figures (or estimates where actual figures are not available).

### 7.2 Benefit sharing allowance

- (a) In each of the first five years after 2007, the Reference Tariffs must be determined in a manner that includes, in addition to all other amounts required or permitted under the Code or GasNet's Access Arrangement, a benefit sharing allowance calculated in accordance with this clause.
- (b) The benefit sharing allowance ( $B_t$ ) in each year (t) is equal to the sum of the efficiency gains or losses ( $E_t$ ) in selected prior years, as given in the following table:

Year	$B_t$
2008	$E_{2003} + E_{2004} + E_{2005} + E_{2006}$
2009	$E_{2004} + E_{2005} + E_{2006}$
2010	$E_{2005} + E_{2006}$
2011	$E_{2006}$
2012	

- (c) The efficiency gain or loss for 2003 is calculated in accordance with the following formula:

$$E_{2003} = F_{2003} - A_{2003}$$

where:

$F_{2003}$  = GasNet's forecast operating costs for 2003

$A_{2003}$  = GasNet's actual operating costs for 2003

- (d) The efficiency gains or losses ( $E_t$ ) for each of 2004, 2005, and 2006 are calculated in accordance with the following formula:

$$E_t = (A_{t-1} - A_t) - (F_{t-1} - F_t)$$

where:

$A_t$  = GasNet's actual operating costs for year (t)

$A_{t-1}$  = GasNet's actual operating costs for the year prior to year (t)

$F_t$  = GasNet's forecast operating costs for year (t)

$F_{t-1}$  = GasNet's forecast operating costs for the year prior to year (t)

- (e) In each case,  $A_t$ ,  $A_{t-1}$  and  $A_{2003}$  must be determined:
- (i) using the same cost categories and methodology used to calculate the total forecasts in Table 3-6 of GasNet's Access Arrangement Information (excluding, for the avoidance of doubt, any regulatory costs and expenses associated with GasNet's access arrangement for the Third Access Arrangement Period); and
  - (ii) without adjustments for volume.
- (f) GasNet's forecast operating costs for any year, are equal to:
- (i) the forecast operating costs for that year as shown in Table 3-6 of GasNet's Access Arrangement Information; plus
  - (ii) the aggregate of all Pass Through Amounts approved by the Commission with respect to that year; plus
  - (iii) revenues obtained from the transmission refill tariffs described in clause 1.3(c) of Schedule 1; plus
  - (iv) additional operating and maintenance costs associated with Extensions and Expansions which are included in GasNet's Capital Base at the commencement of the Third Access Arrangement Period, but which are not included in the

forecast capital expenditure for 2003 to 2007 as shown in Table 3-10 of the Access Arrangement Information.

- (g) For the purposes of calculating the benefit sharing allowance ( $B_t$ ) in the years 2008 to 2012, the actual and forecast operating costs in 2003 to 2007 must be reduced to real 2002 dollars. The calculated allowance ( $B_t$ ) in each year must then be adjusted by the actual and forecast CPI change between 2002 and that year (2008 to 2012).
- (h) In calculating the allowable revenues for operations and maintenance expenditure for the Third Access Arrangement Period, the Commission must:
  - (i) comply with the requirements of the Code;
  - (ii) take into account the actual operating costs in 2006, adjusted for the change in forecast operating costs between 2006 and 2007 and, to avoid doubt, not taking into account the efficiency gain (loss) made in 2007;
  - (iii) take into account forecast changes in workload, taxes, regulatory events, insurance premiums and other relevant costs between 2006 and each year of the Third Access Arrangement Period; and
  - (iv) take into account a percentage trend factor.

### **7.3 Pass through carry forward**

If:

- (a) a Pass Through Event has occurred;
- (b) the Pass Through Event has a financial effect on GasNet in the Second Access Arrangement Period; and
- (c) GasNet has not given a statement under clause 6.1(a) during the Second Access Arrangement Period in relation to that Pass Through Event,

then GasNet may request a Pass Through Amount to apply in the Third Access Arrangement Period on the same terms as clauses 6.1 to 6.4.

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## **8 General**

### **8.1 Capacity Management Policy**

The GNS is a Market Carriage pipeline.

### **8.2 Queuing Policy**

Consistent with section 10.2 of the Code, responsibility for complying with the obligations imposed by sections 3.12 to 3.15 of the Code is allocated to VENCORP.

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## 9 Transitional provisions

Although the revisions comprising this Access Arrangement came into effect on [*insert commencement date*], it is intended that GasNet and Users should be no worse off than if the revisions had commenced on 1 January 2003. To facilitate this, the following transitional provisions apply.

- (a) GasNet's Reference tariffs include, in addition to any other amounts calculated under this Access Arrangement, the Transition Tariff Component, being an amount calculated applying the following formula:

$$T = R - A$$

where:

*T* is the Transition Tariff Component (in \$)

*R* is the aggregate of all charges payable in respect of the Reference Tariffs that would have applied with respect to the Transition Period had the revisions commenced on 1 January 2003

*A* is the amount received by GasNet for the provision of Transmission Services with respect to the Transition Period

- (b) The Transition Tariff Component is recovered as a one-off charge.
- (c) Any calculation under or in connection with this Access Arrangement that refers to or is made by reference to the Regulatory Year 2003, is to be made as if that Regulatory Year commenced on 1 January 2003.
- (d) In this clause, "Transition Period" means the period commencing on 1 January 2003 and ending on [*insert date*].

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## 10 Interpretation

### 10.1 Definitions

The following meanings apply unless the contrary intention appears.

**Access Arrangement Period** has the meaning given in the Code.

**Applicable Law** means any legislation, delegated legislation (including regulations), codes, licences or guidelines associated with the Tariffed Transmission Service, and includes the Code and the MSO Rules.

**Authority** means any government or regulatory department, body, instrumentality, minister, agency or authority (including VENCORP and the Commission) or any body which is the successor to the administrative responsibilities to that department, body, instrumentality, minister, agency or authority.



**Benchmark Insurance Costs** means the costs (whether forecast or actual) included in the determination of the Transmission Tariff associated with GasNet's Minimum Insurance Level.

**Business Day** means a day other than a Saturday or Sunday or a day proclaimed as a public holiday in Melbourne.

**Capacity** has the meaning given in the Code.

**Capital Base** has the meaning given in the Code.

**Change in Taxes Event** means:

- (a) a change in the way or rate at which a Relevant Tax is calculated (including a change in the application or official interpretation of Relevant Tax); or
- (b) the removal or imposition of a Relevant Tax,

to the extent that the change, removal or imposition results in a change in the amount GasNet is required to pay or is taken to pay (whether directly or under any contract) by way of Relevant Taxes.

**Code** means the National Third Party Access Code for Natural Gas Pipeline Systems.

**Commencement Date** means 1 January 2003.

**Commission** means the Australian Competition & Consumer Commission.

**CPI** means the Consumer Price Index All Groups, Weighted Average of Eight Capital Cities published by the Australian Bureau of Statistics.

**Covered Pipeline** has the meaning given in the Code.

**Custody Transfer Meters** means those meters referred to in clauses 2.1 and 2.2 of Schedule 2.

**Expansion** has the meaning given in the Code.

**Extension** has the meaning given in the Code.

**Fixed Principles** has the meaning given in the Code.

**GasNet (NSW)** means GasNet Australia (NSW) Pty Ltd, ABN 14 079 136 413 (formerly Transmission Pipelines Australia (Assets) Pty Ltd).

**GNS** means the GasNet System, being the Gas Transmission System as defined in the Service Envelope Agreement.

**GIA** means the Gas Industry Act 2001 (Vic).

**GST** means the tax imposed by the GST Act and the related imposition Acts of the Commonwealth.

**GST Act** means *A New Tax System (Goods and Services Tax) Act 1999* including all amendments made to the Act and any other regulations and other instruments made under the Act.

**Interconnect Pipeline** means the pipeline owned by GasNet from Barnawartha in Victoria to Culcairn in New South Wales.

**Insurance Event** means circumstances in which:

- (a) there has been a change in one or more costs in the insurance comprising GasNet's Minimum Insurance Level and as a result of that change, the aggregate costs of GasNet's Minimum Insurance Level exceeds or falls short of the Benchmark Insurance Costs;
- (b) GasNet is required to pay a deductible in connection with a claim under an insurance policy; or
- (c) an event occurs which:
  - (i) is within GasNet's Minimum Insurance Level but is not insured (whether as a result of unavailability, GasNet's election or otherwise); and
  - (ii) causes GasNet to suffer loss or damage.

**Market Carriage** has the meaning given in the Code.

**Market Participant** has the meaning given in the MSO Rules.

**Minimum Insurance Level** means the level of insurance comprising the insurance policies (whether as a policy or by way of cover note or similar) held (or required to be held) by GasNet as at the Commencement Date, taking into account all relevant aspects of the insurance including:

- (a) the type of the insurance;
- (b) the amount of the insurance;
- (c) the amount of any deductibles; and
- (d) any exclusions.

**MSO Rules** has the meaning given in the GIA.

**Negative Pass Through Amount** means, in relation to the occurrence of a Pass Through Event, an amount that GasNet is required to pay Users.

**New Facilities Investment** has the meaning given in the Code.

**New Facility** has the meaning given in the Code.

**Pass Through Event** means:

- (a) a Change in Taxes Event;

- (b) a Regulatory Event; or
- (c) an Insurance Event.

**Pass Through Amount** means in relation to the occurrence of a Pass Through Event, the amount or amounts that the Commission has approved (or is taken to have approved) as the financial effect of the Pass Through Event.

**Prospective Use** has the meaning given in the Code.

**Recoverable Portion** has the meaning given in the Code.

**Reference Service** has the meaning given in the Code.

**Reference Tariff** has the meaning given in the Code.

**Reference Tariff Policy** has the meaning given in the Code.

**Regulatory Event** means a decision made by the Commission or any other Authority or any amendment to an Applicable Law that has the effect of:

- (a) imposing minimum standards (including safety or technical standards) on GasNet relating to the Tariffed Transmission Service that are different from the set of minimum standards imposed on GasNet associated with the Tariffed Transmission Service;
- (b) altering the nature or scope of the services that comprise the Tariffed Transmission Service; or
- (c) substantially varying the manner in which GasNet is required to undertake any activity forming part of the Tariffed Transmission Service from the Commencement Date,

as a result of which GasNet incurs materially higher or lower costs associated with the Tariffed Transmission Service than it would have incurred but for that event.

**Regulatory Year** means each year during the Second Access Arrangement Period beginning on 1 January and ending on 31 December.

**Relevant Tax** means any tax, (including any rate, duty, charge, levy or other like or analogous impost paid or taken to be paid by GasNet associated with the Tariffed Transmission Service), but excludes:

- (a) income tax (or State equivalent tax) and capital gains tax;
- (b) penalties and interest for late payment relating to any tax, rate, duty, charge, levy or analogous impost;
- (c) fees and charges paid or payable in respect of a Regulatory Event;
- (d) stamp duty, financial institutions duty, bank accounts debits tax or similar taxes or duties; and

- (e) any tax, rate, duty, charge, levy or other like or analogous impost which replaces the taxes and charges referred to in (a) to (d).

**Revisions Commencement Date** has the meaning given in the Code.

**Revisions Submission Date** has the meaning given in the Code.

**Second Access Arrangement Period** means the Access Arrangement Period commencing on the date this Access Arrangement (as revised) takes effect and ending on 31 December 2007.

**Service Envelope Agreement** means the agreement of that name entered into between VENCORP, GasNet (NSW) and GasNet dated 30 November 1998.

**Service Provider** has the meaning given in the Code.

**Speculative Facilities** has the meaning given in clause 4.5.

**Speculative Investment Fund** has the meaning given in the Code.

**Supply Point** has the meaning given in the *Gas Industry (Residual Provisions) Act 1994 (Vic)*.

**Tariffed Transmission Service** means making available the GNS on the same terms as those set out in the Service Envelope Agreement.

**Third Access Arrangement Period** means the Access Arrangement Period commencing on 1 January 2008.

**Transmission Tariffs** means the tariffs for the Tariffed Transmission Service, calculated in accordance with this Access Arrangement.

**User** has the meaning given in the Code.

**VENCORP** has the meaning given in the GIA.

**VENCORP Reference Services** has the meaning given in the VENCORP Access Arrangement.

**VENCORP Access Arrangement** means the Access Arrangement by VENCORP for the GNS which was approved by the Commission for the period 1 January 2003 to 31 December 2007.

**WUGS** means the western underground gas storage facility located at Iona.

## 10.2 Interpretation

Unless the contrary intention appears, a reference in this Access Arrangement to:

- (a) **(variations or replacement)** a document (including this Access Arrangement) includes any variation or replacement of it;
- (b) **(clauses and schedules)** a clause or schedule is a reference to a section of or schedule to this Access Arrangement;

- (c) **(reference to statutes)** a statute, ordinance, code or other law includes regulations and other instruments under it and consolidations, amendments, re-enactments or replacements of any of them;
- (d) **(singular includes plural)** the singular includes the plural and vice versa;
- (e) **(executors, administrators, successors)** a particular person includes a reference to the person's executors, administrators, successors, substitutes (including persons taking by novation) and assigns;
- (f) **(dollars)** Australian dollars, dollars, A\$ or \$ is a reference to the lawful currency of Australia;
- (g) **(calculation of time)** if a period of time dates from a given day or the day of an act or event, it is to be calculated exclusive of that day;
- (h) **(meaning not limited)** the words "include", "including", "for example" or "such as" are not used as, nor are they to be interpreted as, words of limitation, and, when introducing an example, do not limit the meaning of the words to which the example relates to that example or examples of a similar kind.

### **10.3 GasNet (NSW)**

GasNet makes this Access Arrangement for itself and on behalf of GasNet (NSW) as owners of the GNS. However, GasNet and GasNet (NSW) are not partners. Where relevant, all references to GasNet are taken to be references to each of GasNet and GasNet (NSW) severally.

### **10.4 Merged access arrangements**

GasNet has merged its two previous access arrangements into this single, consolidated Access Arrangement. The two previous access arrangements related to:

- (a) the pipeline formerly known as the Principal Transmission System (or PTS); and
- (b) the pipeline formerly known as the Western Transmission System (or WTS).

Following the completion of the South West Pipeline in 1999, these pipelines are now interconnected. This Access Arrangement refers to these pipelines (and the South West Pipeline) collectively as the GNS.

# GasNet Australia Access Arrangement

## Schedule 1 - Initial Transmission Tariffs

### 1.1 Transmission Tariffs

The Transmission Tariffs comprise:

- (a) the Injection Tariffs, being the tariffs for Injections into the GNS calculated under clause 1.2 of this Schedule; and
- (b) the Withdrawal Tariffs, being the tariffs for Withdrawals from the GNS calculated under clause 1.3 of this Schedule.

### 1.2 Injection Tariffs

The Injection Tariff applicable to an Injection into the GNS is determined by reference to the location of the Injection and the deemed location of the Matched Withdrawal.

The principles for determining the applicable Injection Zone and Matched Withdrawal Zone are discussed in clauses 1.4 and 1.5 of this Schedule.

#### (a) *Injection at Longford Injection Zone*

<b>Matched Withdrawal Zone</b>	<b>Injection Tariff (\$/GJ, for 10 day Injection MDQ)</b>	<b>X-factor</b>
All Withdrawal Zones except LaTrobe, Tyers, West Gippsland and Lurgi	2.0673	0.03
LaTrobe	0.4880	0.03
Tyers & Lurgi	0.4968	0.03
West Gippsland	1.2271	0.03

#### (b) *Injection at Culcairn Injection Zone*

<b>Matched Withdrawal Zone</b>	<b>Injection Tariff (\$/GJ, for 10 day Injection MDQ)</b>	<b>X-factor</b>
All Withdrawal Zones except Interconnect	1.0931	0.03
Interconnect	0.2490	0.03

(c) *Injection at Port Campbell Injection Zone*

<b>Matched Withdrawal Zone</b>	<b>Injection Tariff (\$/GJ, for 10 day Injection MDQ)</b>	<b>X-factor</b>
All Withdrawal Zones except Western and South West and Port Campbell to Adelaide Pipeline	2.2741	0.03
Western and Port Campbell to Adelaide Pipeline	0.0000	0.0
South West	1.5807	0.03

(d) *Injection at Pakenham Injection Zone*

<b>Matched Withdrawal Zone</b>	<b>Injection Tariff (\$/GJ, for 10 day Injection MDQ)</b>	<b>X-factor</b>
All Zones	0.3931	0.03

(e) *Injection at Dandenong Injection Zone*

<b>Matched Withdrawal Zone</b>	<b>Injection Tariff (\$/GJ, for 10 day Injection MDQ)</b>	<b>X-factor</b>
All Zones	0.0000	0.0

### 1.3 Withdrawal Tariffs

The Withdrawal Tariff applicable to a Withdrawal from the GNS is determined by reference to the location of the Connection Point at which the Withdrawal occurs and the nature of the Withdrawal.

The principles for determining the applicable Zone in which a Connection Point is located and the nature of a Withdrawal are discussed in clauses 1.4 and 1.6 of this Schedule.

(a) *Transmission Delivery Tariff*

Subject to the exceptions in clauses 1.3(b), (c), (d), (e), (f) and (g) of this Schedule, the Withdrawal Tariffs are as follows:

<b>Withdrawal Zone Number</b>	<b>Withdrawal Zone Name</b>	<b>Transmission delivery tariff D (\$/GJ)</b>	<b>Transmission delivery tariff V (\$/GJ)</b>	<b>X-factor</b>
1	LaTrobe	0.0456	0.0611	0.03
2	West Gippsland	0.0935	0.0935	0.03
3	Lurgi	1.1419	0.1664	0.03
4	Metro North West	0.2325	0.2666	0.03
5	Calder	0.7849	0.8857	0.03

<b>Withdrawal Zone Number</b>	<b>Withdrawal Zone Name</b>	<b>Transmission delivery tariff D (\$/GJ)</b>	<b>Transmission delivery tariff V (\$/GJ)</b>	<b>X-factor</b>
6	South Hume	0.3265	0.3332	0.03
7	Echuca	0.5272	0.7517	0.03
8	North Hume	0.7344	1.0133	0.03
9	Western	0.4951	0.6271	0.03
10	Murray Valley	1.5632	2.5887	0.0
11	Interconnect	0.7712	0.9863	0.03
13	South West	0.0896	0.0897	0.03
17	Wodonga	0.9173	1.1775	0.03
18	Tyers	0.1354	0.1386	0.03
19	Culcairn	0.6401	NA	0.03
20	Metro South East	0.2325	0.2666	0.03

(b) *System Export Tariff*

Where a Connection Point in an Injection Zone services an export of gas from the GNS to a Connected Transmission Pipeline, gas Injected at that Injection Zone and Withdrawn through that Connection Point is subject to the System Export Tariff specified below, instead of the Withdrawal Tariff specified in clause 1.3(a) of this Schedule.

<b>Connected Transmission Pipeline Number</b>	<b>Connected Transmission Pipeline Name</b>	<b>System Export Tariff (\$/GJ)</b>	<b>X-factor</b>
1	VicHub	0.0000	0.0
2	Port Campbell to Adelaide Pipeline	0.0200	0.0

(c) *Transmission Refill Tariff*

Where a Connection Point services a Storage Facility, all gas Withdrawn through that Connection Point is subject to the Transmission Refill Tariff specified below, instead of the Withdrawal Tariff specified in clause 1.3(a) of this Schedule.

<b>Storage Facility Number</b>	<b>Storage Facility Name</b>	<b>Transmission Refill Tariff (\$/GJ)</b>	<b>X-factor</b>
1	LNG	0.1130	0.0
2	WUGS	0.1210	0.0



(d) *Cross System Withdrawal Tariff*

If:

- (i) gas is Withdrawn at a Connection Point, other than a Connection Point servicing a Storage Facility, located on an Injection Pipeline other than the Interconnect Pipeline; and
- (ii) that Withdrawal is a Matched Withdrawal with respect to an Injection Zone other than the Injection Zone for that Injection Pipeline,

then the Withdrawal is subject to the following Cross System Withdrawal Tariff in addition to the applicable Injection Tariff and Withdrawal Tariff.

<b>Injection Pipeline</b>	<b>Cross System Withdrawal Tariff D (\$/GJ)</b>	<b>Cross System Withdrawal Tariff V (\$/GJ)</b>	<b>X-factor</b>
All	0.1428	0.1769	0.03

(e) *Matched Withdrawals - Culcairn*

If a Withdrawal in one of the following Zones is a Matched Withdrawal relating to Injections in the Culcairn Zone, then the following Matched Withdrawal Tariffs apply instead of the tariffs described in clause 1.3(a) of this Schedule:

<b>Withdrawal Zone Number</b>	<b>Withdrawal Zone Name</b>	<b>Transmission delivery tariff D (\$/GJ)</b>	<b>Transmission delivery tariff V (\$/GJ)</b>	<b>X-factor</b>
8	North Hume	0.3423	0.4649	0.03
10	Murray Valley	0.9709	1.7283	0.0
11	Interconnect	0.0935	0.0935	0.03
17	Wodonga	0.1002	0.1385	0.0

(f) *Matched Withdrawals - Metro (Pakenham)*

If a Withdrawal in the Metro South East Zone is a Matched Withdrawal relating to Injections in the Pakenham Zone, then the following Matched Withdrawal Tariffs apply instead of the tariffs described in clause 1.3(a) of this Schedule:

<b>Withdrawal Zone Number</b>	<b>Withdrawal Zone Name</b>	<b>Transmission delivery tariff D (\$/GJ)</b>	<b>Transmission delivery tariff V (\$/GJ)</b>	<b>X-factor</b>
20	Metro South East	0.0135	0.0135	0.0

(g) *Prudent Discounts - Warrnambool and Koroit*

If:

- (i) a Withdrawal is made in the Western Zone at a Connection Point designated by MIRN 30000089PC or MIRN 30000091PC; and
- (ii) at the time the Withdrawal is made, the SEAGas Pipeline has been commissioned,

then, subject to clause 4.10, that Withdrawal is subject to the Withdrawal Tariff specified below instead of the Withdrawal Tariff specified in clause 1.3(a) of this Schedule.

<b>Withdrawal Zone Number</b>	<b>Withdrawal Zone Name</b>	<b>Transmission delivery tariff D (\$/GJ)</b>	<b>Transmission delivery tariff V (\$/GJ)</b>	<b>X-factor</b>
9A	Western, MIRN 30000089PC (Warrnambool)	0.0534	0.0852	0.0
9B	Western, MIRN 30000091PC (Koroit)	0.1502	0.2032	0.0

(h) *Murray Valley Tariffs*

The Murray Valley tariffs in clauses 1.3(a) and (e) of this Schedule are comprised of two elements which are treated differently in the price control formula contained in Schedule 4 of this Access Arrangement. To enable Schedule 4 to operate, these elements are shown here for both sets of tariffs.

<b>Withdrawal Zone Number</b>	<b>Withdrawal Zone Name</b>	<b>Transmission delivery tariff D (\$/GJ)</b>	<b>Transmission delivery tariff V (\$/GJ)</b>	<b>X-factor</b>
10	Murray Valley (Chiltern Valley)	0.7282	1.0183	0.0
10	Murray Valley (Chiltern Valley) (Matched to Culcairn)	0.1359	0.1579	0.0
10	Murray Valley (Incremental)	0.8350	1.5704	0.0

#### **1.4 Assignment of Zones**

- (a) Each Withdrawal at a Connection Point is taken to occur in the Withdrawal Zone to which the Connection Point is allocated in accordance with Schedule 2.
- (b) Each Injection at a Connection Point is taken to occur in the Injection Zone to which the Connection Point is allocated in accordance with Schedule 2.

## 1.5 Assignment of Withdrawals to Injection locations

- (a) For the purposes of this Schedule, Withdrawals by a Shipper in a Withdrawal Zone on a Gas Day are deemed to have been Injected:
- (i) at the closest Injection Zone at which the Shipper injected gas, to the extent that such Injections have not been deemed to have been Withdrawn at a closer Withdrawal Zone to that Injection Zone;
  - (ii) to the extent that Shipper's Withdrawals have not been allocated under clause (i), at the next closest Injection Zone at which the Shipper Injected gas on that Gas Day, to the extent that such Injections have not been deemed to have been Withdrawn at a closer Withdrawal Zone to that Injection Zone; and
  - (iii) to the extent that Shipper's Withdrawals have not been allocated under clauses (i) and (ii), at further Injection Zones, in increasing order of distance, at which the Shipper Injected gas on that Gas Day, to the extent that such Injections have not been deemed to have been Withdrawn at closer Withdrawal Zones to those Injection Zones, until all Withdrawals by a Shipper are allocated to Injection Zones or all gas Injected by the Shipper on that Gas Day has been allocated, in which case paragraph (b) below applies.
- (b) If a Shipper's total Withdrawals on a Gas Day are greater than its total Injections on that Gas Day, then the applicable Withdrawal Tariff for Withdrawal quantities greater than Injections (after the allocation under paragraph (a)) will be the Withdrawal Tariff (which is not subject to matching) in the Withdrawal Zone at which the gas is Withdrawn.
- (c) If
- (i) the quantity of gas that a Shipper has Injected at an Injection Zone on a Gas Day is greater than that Shipper's Matched Withdrawals between and including that Injection Zone and the Metro Withdrawal Zones for that Gas Day; and
  - (ii) that excess is Withdrawn from one or more of the LaTrobe, Tyers, Lurgi, West Gippsland, Western or South West Withdrawal Zones,
- then, in addition to any other applicable tariffs, all such excess gas will be subject to the Cross System Withdrawal Tariff, in addition to any applicable Injection or Withdrawal Tariff.
- (d) For the purposes of this clause 1.5:
- (i) the distance between an Injection Zone and a Withdrawal Zone is measured by pipeline distance (and not geographic distance);

- (ii) within each Withdrawal Zone gas subject to Transmission Delivery Tariff V is allocated before gas subject to Transmission Delivery Tariff D;
- (iii) withdrawals at a Connected Transmission Pipeline subject to a System Export Tariff within a Withdrawal Zone are deemed to be closer to the Injection Point than other Withdrawals from that Withdrawal Zone;
- (iv) all Injections and Withdrawals will be as determined by VENCORP under the MSO Rules;
- (v) a Shipper who injects gas at an Injection Zone may assign that gas for the purposes of calculation of Matched Withdrawals relating to that Injection Zone to any other Shipper who Withdraws gas from a Withdrawal Zone to which a discounted Injection Tariff for that Injection Zone applies; and
- (vi) assignment of gas under this clause 1.5(d)(v) must be evidenced by letters from both parties to GasNet received by GasNet no later than 18 Business Days after the month in which the gas flowed.

#### **1.6 Allocation to Tariff D and Tariff V**

Withdrawals at a Connection Point are allocated to Tariff D and Tariff V as follows.

- (a) If the Connection Point services an individual Consumer, then all gas delivered through that Connection Point is allocated to Transmission Delivery Tariff D.
- (b) If the Connection Point is a connection with a transmission system, then all gas delivered through that Connection Point is subject to Transmission Delivery Tariff D.
- (c) If the Connection Point services a distribution system, then the volume of gas subject to Transmission Delivery Tariff D is the sum of the gas delivered from that distribution system, subject to Distribution Tariff D, plus the applicable benchmark DUAFG allowance (if any), as applied by VENCORP. Where the allocation of gas cannot be made at an individual Connection Point, the data is aggregated at the Withdrawal Zone level.
- (d) In any other case, the Withdrawal is subject to Transmission Delivery Tariff V.

#### **1.7 Billing parameters**

Transmission Tariffs are charged in accordance with the billing parameters defined below.

- (a) Except where otherwise agreed between GasNet and the Shipper, the Shipper will be charged monthly.

- (b) Transmission Tariffs applying to the calendar year are charged in accordance with the following procedure:

Charges are levied monthly in arrears where the monthly charge for month m is calculated by applying the following, summed over all Zonal Withdrawal Tariffs (1 to n):

$$MCA = \sum_1^n (MV_e * TC)_D + (MV_e * TC)_V + (MV_e * TC)_R + (MV_e * TC)_C + ADJ$$

where:

*MCA* is the charge for the billing period;

*MV<sub>e</sub>* is the estimated monthly volume for month m Withdrawn in the relevant Zone subject to the relevant tariff as provided by VENCORP at day M+18;

*TC* is the applicable Zonal Withdrawal Tariff;

*D* refers to Transmission Delivery Tariff D;

*V* refers to Transmission Delivery Tariff V;

*R* refers to Refill Withdrawal Tariffs;

*C* refers to Cross System Tariffs; and

*ADJ* is the adjustment for month m-5.

Where:

$$ADJ = \sum_1^n ((MV - MV_e) * TC)_D + ((MV - MV_e) * TC)_V + ((MV - MV_e) * TC)_R + ((MV - MV_e) * TC)_C$$

where:

*MV* is the monthly volume for month m Withdrawn in the relevant Zone as provided by VENCORP at day M+18.

- (c) Injection Tariffs applying to the Peak Period are charged in aggregate according to the following procedure:

- (i) for a billing period between January and October, the monthly charge is calculated by applying the relevant tariff to EMC, where EMC is:

- (A) a monthly allocation of forecast 10 Day Injection MDQ for Regulatory Year “t”, using a quantity agreed by GasNet and the Shipper or, failing agreement:

- (aa) a load profile, based on the Shipper's actual annual Withdrawal load profile for Regulatory Year "t-1"; or
- (ab) if the Shipper has no load profile for Regulatory Year "t-1", the average system load profile for Regulatory Year "t-1".

Where the forecast 10 Day Injection MDQ for Regulatory Year "t" is based on prorata allocation of the annual approved forecast 10 Day Injection MDQ used to set the Transmission Tariffs for Regulatory Year "t" based on the injections from the previous year.

- (ii) for the November and December billing periods, the monthly charge is calculated by applying the following formula:

$$MC = (AAC - CBTD)/2$$

where:

*MC* is the charge for the November and December billing periods in Regulatory Year "t".

*CBTD* is the sum of the charges for all prior billing periods of Regulatory Year "t".

*AAC* is the annual charge calculated by applying the relevant Transmission Tariff components to *EAD*.

where *EAD* is:

the actual 10 Day Injection MDQ for Regulatory Year "t".

## 1.8 Glossary

The following meanings apply unless the contrary intention appears:

**Connected Transmission Pipeline** means the pipelines named as "connected transmission pipelines" in clause 1.3(b) of this Schedule.

**Connection Point** means a point where gas may be Injected into or Withdrawn from the GNS.

**Consumer** means a person who consumes or proposes to consume gas transported through the GNS.

**Cross System Withdrawal Tariff** means the tariff specified in clause 1.3(b) of this Schedule, as amended in accordance with this Access Arrangement.

**Distribution Tariff D** means the relevant gas distribution tariff of that name or, if no such tariff exists, a reasonable replacement nominated by GasNet and approved by the Commission.

**DUAFG** means distribution unaccounted for gas.

**Gas Day** has the same meaning as in the MSO Rules.

**Injection** means an Injection of gas into the GNS (and Inject has a corresponding meaning).

**Injection Pipeline** means, in relation to an Injection Zone, the corresponding pipeline or pipelines and, to avoid doubt, includes:

- (a) in relation to the Longford Injection Zone, any or all of the pipeline from Longford to Pakenham;
- (b) in relation to the Western Injection Zone, any or all of the pipeline from Iona to Lara; and
- (c) in relation to the Culcairn Injection Zone, any or all of the pipeline from Culcairn to Barnawartha.

**Injection Tariffs** means the tariffs for Injections of gas into the GNS calculated in accordance with clause 1.2 of this Schedule, as amended in accordance with the Access Arrangement.

**Injection Point** means a Connection Point at which gas may be Injected into the GNS.

**Injection Zone** means the Injection Point or Injection Points identified in Schedule 2 as an "Injection Zone".

**LNG Storage Facility** means the LNG storage facility owned by GasNet which is located at Dandenong.

**Matched Withdrawal** means, in relation to any gas Injected into the GNS, the corresponding Withdrawal (if any) to which the gas is allocated under the rules set out in clause 1.5 of this Schedule.

**MIRN** means meter identification registration number.

**Peak Period** means the period of 1 June to 30 September of a calendar year.

**Regulatory Year** means a period beginning on 1 January and ending on 31 December each year during the Second Access Arrangement Period.

**Shipper** means a person who transports gas on the GNS.

**Storage Facility** means a facility for the storage of gas including the LNG Storage Facility and underground storage.

**System Export Tariff** means the tariff specified in clause 1.3(b) of this Schedule, as amended in accordance with the Access Arrangement.

**10 Day Injection MDQ** means, in relation to each Zone a quantity of gas (in GJ) Injected on behalf of a Shipper at an Injection Zone during the 10 Gas Days in the Peak Period when the 10 highest quantities of gas (in GJ) were Injected at that Zone.

**Transmission Delivery Tariff** means Transmission Delivery Tariff D or Transmission Delivery Tariff V.

**Transmission Delivery Tariff D** means the tariffs identified as “transmission delivery tariff D” in clause 1.3(a) of this Schedule, as amended in accordance with the Access Arrangement.

**Transmission Delivery Tariff V** means the tariffs identified as “transmission delivery tariff V” in clause 1.3(a) of this Schedule, as amended in accordance with the Access Arrangement.

**Transmission Refill Tariff** means the tariffs specified in 1.3(c) of this Schedule, as amended in accordance with the Access Arrangement.

**VicHub** means the licensed transmission pressure gas pipeline joining the GNS to the Eastern and Tasmanian Gas Pipelines in the vicinity of Longford.

**Withdrawal** means a withdrawal of gas from the GNS (and Withdraw has a corresponding meaning).

**Withdrawal Point** means a Connection Point at which gas may be Withdrawn from the GNS.

**Withdrawal Tariffs** means the tariffs for Withdrawals of gas from the GNS calculated in accordance with clause 1.3 of this Schedule, as amended in accordance with the Access Arrangement.

**Withdrawal Zone** means the Withdrawal Point or Withdrawal Points identified in Schedule 2 as a “Withdrawal Zone”.

**Zone** means a Withdrawal Zone or an Injection Zone.



# GasNet Australia Access Arrangement

## Schedule 2 - Injection and Withdrawal Zones

### 2.1 Injection Zones

The Injection Zones are as described below.

An Injection Point forms part of an Injection Zone if the Injection Point is designated by a MIRN identified with respect to an Injection Zone, as follows.

Injection Zone	Meter No.	MIRN	Site Name
Port Campbell	M000	30000000PC	North Paaratte
	NA	30000154PC	Iona
Longford	M001	30000001PC	Longford
Dandenong	M108	30000101PC	Dandenong (LNG 2750)
Pakenham	NA	NA	Pakenham
Culcairn	M126	20000002PC	Culcairn

The Pakenham Zone will be designated by GasNet if gas supplies from the Yolla field are Injected into the GNS at or near Pakenham.

Any Injection Point that is not described above will be allocated by GasNet to a new or existing Injection Zone consistent with the existing allocations.

### 2.2 Withdrawal Zones

The Withdrawal Zones are as described below.

A Withdrawal Point forms part of a Withdrawal Zone if the Withdrawal Point is designated by a MIRN identified with respect to a Withdrawal Zone, as follows.

Meter No.	Site Name	MIRN
<b>1 LaTrobe Zone</b>		
<a href="#">M078</a>	Rosedale	30000072PC
<a href="#">M079</a>	Sale	30000073PC
<a href="#">M085</a>	Traralgon	30000079PC
<a href="#">M104</a>	Maryvale (Amcors)	30000097PC

<b>Meter No.</b>	<b>Site Name</b>	<b>MIRN</b>
M134	EMEAL (Loy Yang)	30000164PC
<b>2 West Gippsland</b>		
n/a		
<b>3 Lurgi</b>		
<a href="#">M062</a>	Drouin	30000057PC
<a href="#">M070</a>	Longwarry	30000065PC
<a href="#">M075</a>	Moe	30000069PC
<a href="#">M084</a>	Trafalgar	30000078PC
<a href="#">M090</a>	Warragul (Works)	30000084PC
<a href="#">M092</a>	Yarragon	30000086PC
<a href="#">M098</a>	Cloverlea (Darnum)	30000092PC
<b>4 Metro North West</b>		
M008	Brooklyn Compressor Station	30000010/11PC
M009	West Melbourne (Footscray)	30000012PC
<a href="#">M011</a>	Melbourne (Queens Wharf Rd)	30000013PC
<a href="#">M013</a>	Spotswood	30000015/16PC
M014	West Melbourne (N. Melbourne)	30000017/18PC
<a href="#">M026</a>	Derrimut City Gate	30000026PC
<a href="#">M027</a>	Melton South City Gate	30000027PC
<a href="#">M028</a>	Laverton North City Gate	30000028PC
<a href="#">M029</a>	Hoppers Crossing (Forsyth Rd)	30000029PC
<a href="#">M030</a>	Hoppers Crossing (Heath's Rd)	30000030PC
<a href="#">M031</a>	Werribee (Old Sneydes Rd)	30000031PC
<a href="#">M032</a>	Werribee (Lock Av)	30000032PC
<a href="#">M045</a>	Sunbury	30000043PC
<a href="#">M048</a>	Diggers Rest	30000044PC
<a href="#">M049</a>	Sydenham	30000045PC
<a href="#">M051</a>	Avalon	30000046PC
<a href="#">M065</a>	Corio	30000060PC
<a href="#">M069</a>	Lara	30000064PC
<a href="#">M103</a>	Newport (Ecogen)	30000096PC

<b>Meter No.</b>	<b>Site Name</b>	<b>MIRN</b>
<a href="#">M107</a>	Laverton North (BHP Methanol)	30000100PC
<a href="#">M115</a>	Keon Park East	30000107/108PC
<a href="#">M116</a>	Keon Park West	30000109/110PC
<a href="#">M117</a>	Craigieburn	30000111PC
<a href="#">M118</a>	Epping (O'Herns Rd)	30000112PC
<a href="#">M121</a>	Rockbank	30000117PC
<a href="#">M125</a>	Mernda (Laurimar Park)	30000145PC
M135	Somerton	30000165PC
<b>5 Calder</b>		
<a href="#">M052</a>	Bacchus Marsh	30000047PC
<a href="#">M053</a>	Ballan	30000048PC
<a href="#">M054</a>	Ballarat	30000049PC
<a href="#">M057</a>	Bendigo	30000052PC
<a href="#">M059</a>	Castlemaine	30000054PC
<a href="#">M061</a>	Daylesford	30000056PC
<a href="#">M068</a>	Kyneton	30000063PC
<a href="#">M073</a>	Maryborough	30000067PC
<a href="#">M086</a>	Wallace	30000080PC
<a href="#">M099</a>	Carisbrook	30000093PC
<b>6 South Hume</b>		
<a href="#">M058</a>	Broadford	30000053PC
<a href="#">M064</a>	Euroa	30000059PC
<a href="#">M066</a>	Kilmore	30000061PC
<a href="#">M077</a>	Seymour (Supply to Puckapunyal)	30000071PC
<a href="#">M080</a>	Seymour (Telegraph Rd)	30000074PC
<a href="#">M087</a>	Wallan	30000081PC
<b>7 Echuca</b>		
<a href="#">M063</a>	Echuca	30000058PC
<a href="#">M067</a>	Kyabram	30000062PC
<a href="#">M074</a>	Merrigum	30000068PC
<a href="#">M081</a>	Shepparton	30000075PC

<b>Meter No.</b>	<b>Site Name</b>	<b>MIRN</b>
<a href="#">M082</a>	Tatura	30000076PC
<a href="#">M083</a>	Tongala	30000077PC
<b>8 North Hume</b>		
<a href="#">M055</a>	Benalla	30000050PC
<a href="#">M056</a>	Benalla (Supply to Monsbent)	30000051PC
<a href="#">M088</a>	Wangaratta	30000082PC
<a href="#">M089</a>	Wangaratta East	30000083PC
<a href="#">M100</a>	Chiltern	30000094PC
<b>9 Western</b>		
<a href="#">M093</a>	Cobden	30000087PC
<a href="#">M094</a>	Hamilton	30000088PC
<a href="#">M096</a>	Portland	30000090PC
<a href="#">M095</a>	Koroit	30000089PC
<a href="#">M097</a>	Allansford	30000091PC
<b>10 Murray Valley</b>		
<a href="#">M111</a>	Rutherglen	30000103PC
<a href="#">M112</a>	Yarrawonga	30000104PC
<a href="#">M113</a>	Cobram	30000105PC
<a href="#">M114</a>	Koonoomoo	30000106PC
<b>11 Interconnect</b>		
M130	Walla Walla	20000003PC
<b>13 South West</b>		
M133	Colac	30000161PC
NA	Iona (WUGS)	30000154PC
<b>17 Wodonga</b>		
<a href="#">M091</a>	Wodonga	30000085PC
<b>18 Tyers</b>		
<a href="#">M060</a>	Churchill	30000055PC
<a href="#">M071</a>	Morwell (Firmin's Lane)	30000066PC
<a href="#">M076</a>	Morwell (Porter's Rd)	30000070PC
<a href="#">M102</a>	Jeeralang (Ecogen)	30000095PC

<b>Meter No.</b>	<b>Site Name</b>	<b>MIRN</b>
<b>19 Culcairn</b>		
M126	Culcairn	2000002PC
<b>20 Metro South East</b>		
M002	Dandenong T.S. (Peninsula)	3000002PC
<a href="#">M003</a>	Dandenong (Henty St)	3000003/4PC
<a href="#">M004</a>	Murrumbeena	3000005/6PC
M005	Dandenong T.S. (Lurgi)	3000007PC
M006	Dandenong (LNG 700)	30000159/160PC
M007	Dandenong T.S. (Edithvale)	3000009PC
<a href="#">M012</a>	St. Kilda (Aughtie Dr)	30000014PC
<a href="#">M015</a>	Noble Park	30000019PC
<a href="#">M016</a>	Clayton	30000020PC
<a href="#">M017</a>	Oakleigh	30000021PC
<a href="#">M018</a>	Malvern (Ewart St)	30000022PC
<a href="#">M019</a>	St. Kilda East (Orrong Rd)	30000023PC
<a href="#">M023</a>	Port Melbourne (Howe Pde)	30000024PC
<a href="#">M024</a>	Port Melbourne (Lorimer St)	30000025PC
<a href="#">M033</a>	Healesville	30000033PC
<a href="#">M034</a>	Gembrook	30000034PC
<a href="#">M035</a>	Lyndhurst	30000035PC
<a href="#">M036</a>	Cranbourne (Huon Park Rd)	30000036PC
<a href="#">M037</a>	Cranbourne (Narre Warren Rd)	30000037PC
<a href="#">M038</a>	Clyde North (Tuckers Rd)	30000038PC
<a href="#">M040</a>	Pakenham (Koo Wee Up Rd)	30000039PC
<a href="#">M042</a>	Hampton Park	30000040PC
<a href="#">M043</a>	Narre Warren	30000041PC
<a href="#">M044</a>	Berwick	30000042PC
<a href="#">M105</a>	Port Melbourne (Unichema)	30000098PC
M109	Dandenong (LNG 7000)	30000102PC

Any Withdrawal Point that is not described above will be allocated by GasNet to a Withdrawal Zone consistent with the existing allocations.

## 2.3 Allocation of Supply Points to Withdrawal Zones

For the purpose of allocation of Supply Points to Withdrawal Zones:

- (a) Supply Points served directly from the GNS are individually allocated based on the Custody Transfer Meter providing supply to that Supply Point;
- (b) Supply Points assigned to Distribution Tariff D are individually allocated based on the Custody Transfer Meter providing supply to that Supply Point; and
- (c) Supply Points assigned to Distribution Tariff V are allocated to Withdrawal Zones on the basis of postcodes according to the following table.

Withdrawal Zone		Postcodes
Number	Name	
1	LaTrobe	3844, 3847, 3850, 3851, 3854, 3856, 3857, 3859, 3860, 3873
2	West Gippsland	3831
3	Lurgi	3816, 3818, 3820, 3822, 3823, 3824, 3825
4	Metro North West	3000, 3002, 3003, 3005, 3008, 3011, 3012, 3013, 3015, 3016, 3018, 3019, 3020, 3021, 3022, 3023, 3024, 3025, 3026, 3027, 3028, 3029, 3030, 3031, 3032, 3033, 3034, 3036, 3037, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3047, 3048, 3049, 3050, 3051, 3052, 3053, 3054, 3055, 3056, 3057, 3058, 3059, 3060, 3061, 3062, 3063, 3064, 3065, 3066, 3067, 3068, 3070, 3071, 3072, 3073, 3074, 3075, 3076, 3078, 3079, 3081, 3082, 3083, 3084, 3085, 3087, 3088, 3089, 3090, 3091, 3093, 3094, 3095, 3096, 3097, 3099, 3202, 3204, 3211, 3212, 3214, 3215, 3216, 3217, 3218, 3219, 3220, 3221, 3222, 3223, 3224, 3225, 3226, 3227, 3228, 3230, 3231, 3232, 3235, 3240, 3335, 3337, 3338, 3427, 3428, 3429, 3430, 3431, 3432, 3750, 3751, 3752, 3754, 3755, 3759, 3760, 3761, 3763, 3775
5	Calder	3334, 3340, 3341, 3342, 3345, 3350, 3351, 3352, 3355, 3356, 3357, 3363, 3364, 3370, 3437, 3444, 3446, 3447, 3448, 3450, 3451, 3453, 3458, 3460, 3461, 3462, 3463, 3464, 3465, 3472, 3515, 3550, 3551, 3555, 3556
6	South Hume	3433, 3434, 3435, 3442, 3521, 3522, 3607, 3608, 3658, 3659, 3660, 3662, 3663, 3664, 3665, 3666, 3753, 3756, 3757, 3758, 3762, 3764
7	Echuca	2731, 3561, 3564, 3614, 3616, 3617, 3618, 3620, 3621, 3622, 3623, 3624, 3629, 3630, 3631, 3633, 3647

8	North Hume	3669, 3670, 3672, 3673, 3675, 3677, 3678, 3682, 3683, 3725, 3726, 3732, 3733, 3735, 3746, 3747, 3749
9	Western	3264, 3265, 3266, 3267, 3268, 3270, 3284, 3285, 3286, 3287, 3289, 3300, 3301, 3302, 3303, 3304, 3305
9A	Warrnambool	3277, 3278, 3279, 3280, 3281
9B	Koroit	3275, 3276, 3282, 3283
10	Murray Valley	2646, 2647, 2712, 2713, 2714, 3635, 3636, 3637, 3638, 3640, 3641, 3644, 3649, 3685, 3687, 3728, 3730
11	Interconnect	2642, 2643, 2658, 2659, 2660
13	South West	3235, 3236, 3241, 3242, 3243, 3249, 3250, 3254, 3260, 3321, 3331
17	Wodonga	2640, 2641, 3688, 3690, 3691, 3693, 3694
18	Tyers	3840, 3842, 3869
19	Culcairn	NA
20	Metro South East	3004, 3006, 3101, 3102, 3103, 3104, 3105, 3106, 3107, 3108, 3109, 3111, 3113, 3114, 3115, 3116, 3121, 3122, 3123, 3124, 3125, 3126, 3127, 3128, 3129, 3130, 3131, 3132, 3133, 3134, 3135, 3136, 3137, 3138, 3139, 3140, 3141, 3142, 3143, 3144, 3145, 3146, 3147, 3148, 3149, 3150, 3151, 3152, 3153, 3154, 3155, 3156, 3158, 3159, 3160, 3161, 3162, 3163, 3165, 3166, 3167, 3168, 3169, 3170, 3171, 3172, 3173, 3174, 3175, 3177, 3178, 3179, 3180, 3181, 3182, 3183, 3184, 3185, 3186, 3187, 3188, 3189, 3190, 3191, 3192, 3193, 3194, 3195, 3196, 3197, 3198, 3199, 3200, 3201, 3205, 3206, 3207, 3765, 3766, 3767, 3770, 3777, 3781, 3782, 3783, 3785, 3786, 3787, 3788, 3789, 3791, 3792, 3793, 3795, 3796, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 3809, 3810, 3812, 3813, 3814, 3815, 3910, 3911, 3912, 3913, 3915, 3916, 3918, 3919, 3920, 3921, 3922, 3923, 3926, 3927, 3928, 3929, 3930, 3931, 3933, 3934, 3936, 3937, 3938, 3939, 3940, 3941, 3942, 3943, 3944, 3975, 3976, 3977, 3978, 3980, 3981, 3984, 3987

NOTE:

Prior to the commissioning of a Pt Campbell to South Australia pipeline, Zones 9A & 9B are included in Zone 9.

All gas delivered through Zone 19 (Culcairn) is allocated to Tariff D.

# GasNet Australia Access Arrangement

## Schedule 3 - Altering Transmission Tariffs

### 3.1 Proposed tariffs

For each Regulatory Year after the Regulatory Year ending 31 December 2003, GasNet must, at least 30 business days before the start of that Regulatory Year, give the Commission a statement:

- (a) setting out its proposed Transmission Tariffs for that Regulatory Year;
- (b) setting out the proposed tariff components for each of those Transmission Tariffs;
- (c) demonstrating compliance of the proposed Transmission Tariffs with the relevant principles and formulae in Schedule 4; and
- (d) setting out the proposed changes (if any) in the billing parameters contained in Schedule 1, or to any other matters in that schedule.

### 3.2 Altering a tariff during a Regulatory Year

GasNet may alter a Transmission Tariff during a Regulatory Year in accordance with section 2 of the Code.

### 3.3 Commission's approval

- (a) The Commission must not approve a statement given by GasNet under clause 3.1 of this Schedule if the statement does not comply with the relevant principles and formulae in Schedule 4.
- (b) The Commission must approve a statement given by GasNet under clause 3.1 of this Schedule if:
  - (i) the statement complies with the relevant principles and formulae in Schedule 4; and
  - (ii) all the forecasts included in the statement are satisfactory to the Commission.
- (c) If the Commission does not notify GasNet of the Commission's decision regarding a statement given by GasNet under clause 3.1 of this Schedule within 20 Business Days of the Commission receiving the statement, the Commission is taken to have approved the statement.
- (d) If, under clause 3.3(a) of this Schedule the Commission must not approve a statement given by GasNet, the Commission may allow GasNet to replace the statement within such time as specified by the Commission.



- (e) Where a statement has been replaced in accordance with clause 3.3(a) of this Schedule, the replacement statement will be taken to be a statement validly provided under clause 3.1 of this Schedule and the replaced statement will be taken not to have been submitted by GasNet.

### **3.4 Effective date**

The Transmission Tariffs in the statement given by GasNet approved or taken to have been approved by the Commission apply from the latest of:

- (a) the date on which the Commission approves or is taken to have approved the alteration; and
- (b) the start of the Regulatory Year in which the Transmission Tariffs are to apply.

### **3.5 Failure to provide a statement**

If GasNet does not provide a statement to the Commission as required under clause 3.1 of this Schedule in relation to a Regulatory Year or such a statement is provided but is not approved by the Commission, the Commission may re-set the relevant Transmission Tariffs for GasNet for the Regulatory Year in a manner in which the Commission could have approved of the Transmission Tariffs if included in a statement given by GasNet under clause 3.1 of this Schedule.

# GasNet Australia Access Arrangement

## Schedule 4 - Price Control Formula

### 4.1 Average revenue control

The average revenue control is:

The forecast average Transmission Tariff (**FATT**) must be less than the maximum average Transmission Tariff (**MATT**),

where:

- FATT is calculated in accordance with clause 4.2 of this Schedule, and
- MATT is calculated in accordance with clause 4.3 of this Schedule.

All calculations in this Schedule 4:

- must exclude the revenues and volumes associated with:
  - the Transmission Refill Tariffs (Schedule 1.3(c)),
  - the Murray Valley (Incremental) tariffs (Schedule 1.3(h)),
  - the Port Campbell Injection Tariff (Schedule 1.2(c)), and
- must, in calculating the Longford Injection revenue, sum:
  - the Port Campbell Injection volumes (excluding Injections matched to Withdrawals from the Western and the SEAGas Matched Withdrawal zones) and the Longford Injection volumes.

### 4.2 FATT

$$FATT_t = \frac{FTR_t}{FTV_t}$$

Where:

$FATT_t$  (in \$/GJ) is the forecast average Transmission Tariff for regulatory year "t".

$FTR_t$  (in \$) is the forecast transmission revenue based on the full Transmission Tariffs which are being submitted to the Commission for approval for regulatory year "t" (i.e., no discounts other than approved prudent discounts are to be included).

$FTV_t$  (in GJ) is the forecast calendar year volume of gas transmitted in regulatory year "t".

### 4.3 MATT

If regulatory year “t” is the year ended 31 December 2003 then  $MATT_t$  is calculated as for  $FATT_{2003}$ .

Otherwise  $MATT_t$  is calculated using the following formula:

$$MATT_t = ATT_t - KT_t$$

where:

$MATT_t$  (in \$/GJ) is the maximum average Transmission Tariff for regulatory year “t”.

$ATT_t$  (in \$/GJ) is the average Transmission Tariff for the regulatory year “t” and adjusted for CPI and the price path factor for the Second Access Arrangement Period, based upon the forecasts at the commencement of the Second Access Arrangement Period, as calculated in accordance with clause 4.4 of this Schedule,

$KT_t$  (in \$/GJ) is a retrospective correction factor, calculated in accordance with clause 4.5 of this Schedule

### 4.4 ATT

$ATT_{t-1}$  (in \$/GJ) is determined in accordance with the following:

For regulatory year “t”	$ATT_t$
2004	$= 0.362816 \text{ CPI}_{(2004)} \cdot (1 - \text{PPT})$
2005	$= 0.357033 \text{ CPI}_{(2004)} \cdot \text{CPI}_{(2005)} \cdot (1 - \text{PPT})^2$
2006	$= 0.36684 \text{ CPI}_{(2004)} \cdot \text{CPI}_{(2005)} \cdot \text{CPI}_{(2006)} \cdot (1 - \text{PPT})^3$
2007	$= 0.376630 \cdot \text{CPI}_{(2004)} \cdot \text{CPI}_{(2005)} \cdot \text{CPI}_{(2006)} \cdot \text{CPI}_{(2007)} \cdot (1 - \text{PPT})^4$

where:

$CPI_t$  is the CPI for regulatory year “t”. (i.e., annual CPI movement for the period to the previous 30<sup>th</sup> September expressed as index at 30 Sept  $t-1$  / index at 30 Sept  $t-2$ )

PPT is the price path factor for the Second Access Arrangement Period expressed as an index, as follows:

$$PPT = 0.05$$

### 4.5 KT

$KT_t$  (in \$/GJ) is a composite correction factor to correct for any differences between forecast and actual quantities, calculated as follows:

$$KT_t = \frac{KTA_t + KTB_t}{FTV_t} (1+i_t)$$

where:

$KTA_t$  is calculated in accordance with clause 4.6 of this Schedule.

$KTb_t$  is calculated in accordance with clause 4.7 of this Schedule.

$i_t$  is the *Australian Financial Markets Association End of Day 1 Year Swap Reference Rate* at 30 September in the regulatory year immediately preceding regulatory year “t” varied by:

- (a) where  $KT_t$  is a negative value, subtraction of 50 basis points; and
- (b) where  $KT_t$  is a positive value, addition of 50 basis points.

$FTV_t$  is defined in clause 4.2 of this Schedule.

#### 4.6 **KTa**

$$KTa_t = ETR_{t-1} - (ETV_{t-1} \cdot MATT_{t-1}) - PTA_{t-1} - EEA_{t-1}$$

where:

$ETR_{t-1}$  (in \$) is the estimated transmission revenue in regulatory year “t-1”, based on full Transmission Tariffs as approved by the Commission for regulatory year “t-1” (i.e., no discounts are to be included).

$ETV_{t-1}$  (in GJ) is the estimated volume of gas transmitted in regulatory year “t-1”.

$MATT_{t-1}$  (in \$/GJ) is the figure used for  $MATT_t$  for regulatory year “t-1”.

$PTA_{t-1}$  (in \$) is the Pass Through Amount submitted in t-1 as approved by the Commission for recovery (pay back) in regulatory year t.

$EEA_{t-1}$  (in \$) is the estimated expansion allowance for Unanticipated System Expansion for regulatory year “t-1”.  $EEA_{t-1}$  is calculated as follows:

$$EEA_{t-1} = EETR_{t-1} - (EETV_{t-1} \cdot MATT_{t-1})$$

where:

$EETR_{t-1}$  (in \$) is the estimated “expansion” transmission revenue in year t-1 which is attributable to Unanticipated System Expansion, determined as follows:

If the regulatory year is the year ending 31 December 2003, then  $EETR_{t-1} = 0$ .

If the regulatory year is after the year ending 31 December 2003, then;

$$EETR_{t-1} = \sum_{tc} TTC_{t-1} \cdot {}^cETD_{t-1}$$

Where:

$TTC_{t-1}$  (in \$/GJ) is the relevant Transmission Tariff component applicable in year “t-1”

${}^eETD_{t-1}$  (in GJ) is the estimated quantity of the relevant Transmission Tariff component in regulatory year “t-1” attributable to Unanticipated System Expansion.

$\sum_{tc}$  is the sum over all relevant Transmission Tariff components.

$EETV_{t-1}$  is the estimated calendar year volume that is attributable to Unanticipated System Expansion in the year “t-1”.

#### 4.7 KTb

$$KTb_t = [ATR_{t-2} - ETR_{t-2} - \{(ATVE_{t-2} - ETV_{t-2}) \cdot MATT_{t-2}\} - \{AEA_{t-2} - EEA_{t-2}\}] \cdot (1 + i_{t-1})$$

where:

$ATR_{t-2}$  (in \$) is the actual transmission revenue in regulatory year “t-2”, based on full Transmission Tariffs as approved by the Commission for the regulatory year “t-2” (i.e., no discounts are to be included).

$ETR_{t-2}$  (in \$) is the figure used for  $ETR_{t-1}$  when calculating  $KTa_t$  for regulatory year “t-1”.

$ATV_{t-2}$  (in GJ) is the actual volume of gas transmitted in regulatory year “t-2”.

$ETV_{t-2}$  (in GJ) is the figure used for  $ETV_{t-1}$  when calculating  $Kta_t$  for regulatory year “t-1”.

$MATT_{t-2}$  (in \$/GJ) is the figure used for  $MATT_t$  for the regulatory year “t-2”.

$AEA_{t-2}$  (in \$) is the actual allowance for Unanticipated System Expansion in regulatory year “t-2”.  $AEA_{t-2}$  is calculated as follows:

$$AEA_{t-2} = AETR_{t-2} - (AETV_{t-2} \cdot MATT_{t-2})$$

Where:

$AETR_{t-2}$  is the actual expansion transmission revenue in year “t-2” attributable to Unanticipated System Expansion;

where:

$$AETR_{t-2} = \sum_{tc} TTC_{t-2} \cdot {}^eATD_{t-2}$$

Where

$TTC_{t-2}$	(in \$/GJ) is the relevant Transmission Tariff component applicable in year “t-2”
${}^eATD_{t-2}$	(in GJ) is the actual quantity of the relevant Transmission Tariff component in regulatory year “t-2” attributable to Unanticipated System Expansion.
$AETV_{t-2}$	is the actual calendar year volume that is attributable to Unanticipated System Expansion in the year “t-2”.
$EEA_{t-2}$	(in \$) is the figure used for $EEA_{t-1}$ when calculating $Kt_t$ for regulatory year “t-1”.
$i_{t-1}$	is the figure used for $i_t$ for the regulatory year “t-1”.

#### 4.8 Rebalancing Control Formula

The approved price of each Transmission Tariff component (**APTC**) must be less than the maximum price for each Transmission Tariff component (**MPTC**) where MPTC is calculated in accordance with clause 4.9 of this Schedule.

#### 4.9 MPTC

$MPTC_t$  (in \$/GJ) for each Transmission Tariff component in regulatory year “t” is determined as follows:

For regulatory year 2003,  $MPTC_{2003}$  is the relevant Transmission Tariff component set out in Schedule 1.

For regulatory years after 2003,  $MPTC_t$  is calculated in two steps, as follows:

*Step 1:*

Step 1 is designed to determine the base figure for  $MPTC_t$ , as follows:

$$MPTC_{t(step\ 1)} = APTC_{t-1} \cdot CPI_t \cdot (1 - X)$$

where

$APTC_{t-1}$  is the approved price for the relevant Transmission Tariff component from the previous regulatory year;

$CPI_t$  is as defined in clause 4.4 of this Schedule; and

X is the tariff control factor for the relevant Transmission Tariff component, as specified in Schedule 1.

*Step 2:*

The procedure in step 2 is designed to allow each Transmission Tariff component to be rebalanced upwards by up to 2% provided the total transmission revenue is unchanged.

GasNet may alter a Transmission Tariff component provided that:

- (a) the Transmission Tariff Component (as altered) meets the following requirement:

$$MPTC_{t(step\ 2)} \leq MPTC_{t(step\ 1)} \cdot 1.02$$

and

- (b) the total forecast transmission revenue calculated using the Transmission Tariff components (as altered) meets the following requirement:

$$FR_{t(step\ 2)} \leq MATT_t \cdot FTV_t$$

where:

$FR_{t(step\ 2)}$  is the forecast transmission revenue calculated using the Transmission Tariff components (as amended);

$MATT_t$  is defined in clause 4.3 of this Schedule; and

$FTV_t$  is defined in clause 4.2 of this Schedule.

#### **4.10 General**

- (a) Where an application for altered Transmission Tariffs is made prior to the start of a regulatory year (as contemplated in clause 3.1 of Schedule 3), forecasts of demand, volume and revenue for the regulatory year should be based on the best estimates available at the time of application.
- (b) In this Schedule, “Unanticipated System Expansion” means gas volume transported through the GNS as a result of construction of a significant pipeline extension (greater than 10km or \$5 million) not included in the capital expenditure forecast for the Second Access Arrangement Period.
- (c) In this Schedule, a “regulatory year” means a period of 12 months commencing on 1 January.

# GasNet Australia Access Arrangement

## Schedule 5 - Description of GNS

Pipeline Licence	Location/Route	Length (km)	Pipe Diameter (mm)	MAOP (kPa)
	<i>Longford to Dandenong and Wollert System</i>			
Vic:68	Healesville-Koo-Wee-Rup Rd	1.2	80	2760
Vic:91	Anderson St, Warragul	4.8	100	2760
Vic:107	Pound Rd to Tuckers Rd	2.0	100	2760
Vic:50	Supply to Jeeralang	0.4	300	2760
Vic:50	Morwell to Dandenong	126.8	450	2760
Vic:75	Longford to Dandenong	174.2	750	6890
Vic:117	Rosedale to Tyers	34.3	750	7070
Vic:120	Longford to Rosedale	30.5	750	7070
Vic:135	Bunyip to Pakenham	18.7	750	7070
Vic:141	Pakenham to Wollert	93.1	750	6890
Vic:121	Tyers to Morwell	15.7	500	7070
Vic:67	Maryvale	5.4	150	6890
	<i>Wollert to Wodonga/Echuca/Bendigo System</i>			
Vic:101	Keon Park to Wollert	14.1	600	2760
Vic:202	Keon Park East - Keon Park West	0.6	450	2760
Vic:101	Wollert to Wodonga	269.4	300	7400
Vic:101	Euroa to Shepparton	34.5	200	7400
Vic:132	Shepparton to Tatura	16.2	200	7390
Vic:136	Tatura to Kyabram	21.3	200	7390
Vic:152	Kyabram to Echuca	30.7	150	7390
Vic:143	Wandong to Kyneton	59.5	300	7390
Vic:128	Mt Franklin to Kyneton	24.5	300	7390
Vic:131	Mt Franklin to Bendigo	50.8	300	7390
Vic:78	Ballan to Bendigo	90.8	150	7390
Vic:125	Guildford to Maryborough	31.4	150	7390
Vic:238	Somerton Pipeline	3.4	250	2760
Vic:176	Chiltern Valley to Rutherglen	14.7	200	7400
Vic:182	Rutherglen to Koonoomoo	88.8	200	7400
Vic:178	Barnawartha to Murray River	5.5	450	10200
NSW:24	Murray River to Culcairn	57.0	450	10200



<b>Pipeline Licence</b>	<b>Location/Route</b>	<b>Length (km)</b>	<b>Pipe Diameter (mm)</b>	<b>MAOP (kPa)</b>
	<b><i>Brooklyn to Ballarat System</i></b>			
Vic:78	Brooklyn to Ballan	66.6	200	7390
Vic:78	Ballan to Ballarat	22.7	150	7390
Vic:134	Ballan to Ballarat	22.8	300	7390
Vic:122	Derrimut to Sunbury	24.0	150	7390
	<b><i>Brooklyn to Geelong System</i></b>			
Vic:81	Brooklyn to Corio	50.7	350	7390
Vic:162	Laverton to BHP	1.6	150	2760
	<b><i>Dandenong to West Melbourne / Brooklyn System</i></b>			
Vic:36	Dandenong to West Melbourne	36.2	750	2760
Vic:108	South Melbourne to Brooklyn	12.8	750	2760
Vic:129	Princess Hwy to Henty St	0.2	500	2760
Vic:129	Dandenong to Princess Hwy	5.0	750	2760
Vic:36	Princess Hwy to Regent St	0.8	200	2760
Vic:164	Supply to Bay St To Unichema	0.4	150	2760
Vic:124	Supply to Newport Power Station	1	450	2760
	<b><i>Western Network</i></b>			
Vic:145	Paaratte to Allansford	33.3	150	7400
Vic:155	Allansford to Portland	100.4	150	9890
Vic:168	Curdievale to Cobden	27.7	150	9890
Vic:171	Codrington to Hamilton	54.6	150	9890
	<b><i>South West Pipeline</i></b>			
Vic:227	Iona to Paaratte	7.8	150	7400
Vic:231	Iona to Lara	143.9	500	10200