

ACCESS ARRANGEMENT INFORMATION FOR CARPENTARIA GAS PIPELINE

(PUBLIC VERSION)

3 NOVEMBER 2000

1 1. INTRODUCTION

1.1 Overview of the Access Arrangement Information

This Access Arrangement Information has been prepared in accordance with the National Third Party Access Code for Natural Gas Pipelines and the Gas Pipelines Access (Queensland) Act 1998.

Terms used in this Access Arrangement Information have the meanings given to them in the Access Arrangement¹.

Some confidential or commercial sensitive information has been provided to the Regulator but has been excluded from this document.

1.2 Derogation from Access Code

As contemplated in the Intergovernmental Natural Gas Pipelines Access Agreement dated 7 November 1997, transitional arrangements under the Act permitted the Minister for Mines and Energy to approve a tariff arrangement for the Pipeline².

In exercise of that power under the Act, the Minister approved a Tariff Arrangement for the Pipeline.

The approved Tariff Arrangement is taken to be approved under the Gas Pipelines Access Law as the Reference Tariff and Reference Tariff Policy for the Access Arrangement for the Pipeline until the revisions commencement date to this Access Arrangement³.

The approved Tariff Arrangement provides that::

“For so long as the Service Provider’s Service Policy consists of the Reference Service described herein, and the Reference Tariff described herein continues to apply to that Reference Service, the Service Provider shall not be required to prepare an Access Arrangement Information in connection with the Access Arrangement under which the Reference Service and Reference Tariff are offered.”

Accordingly, the information required in the following categories set out in Attachment A to the Access Code is not required and only the information required under section 5 of Attachment A is provided in this Access Arrangement Information.

Category 1: Information Regarding Access and Pricing Principles

Category 2: Information Regarding Capital Costs

Category 3: Information Regarding Operations and Maintenance

¹ Attachment A Schedule A3 and Attachment B

² Gas Pipelines Access (Queensland) Act 1998 section 58.

³ Gas Pipelines Access Act 1998 (Qld) section 58(2)

Category 4: Information Regarding Overheads and Marketing Costs
Category 6: Information Regarding Key
Performance Indicators

Background to the Carpentaria Gas Pipeline

The CGP transports Gas from gas fields at Ballera in south western Queensland to Mt Isa in north western Queensland. The CGP is also known as the Ballera to Mt Isa Pipeline.

Construction of the CGP commenced in 1997 following a competitive bidding process. The CGP was completed in 1998.

It was constructed to meet the energy needs of the mining industry in north western Queensland and carries gas to mines and power generation facilities.

IMPORTANT NOTICE

The information contained in this document has been prepared in good faith by CGPJV for the limited purpose of facilitating the determination of the Access Arrangement application as required under the Code. The information contained in this document should not be relied on for any other purpose. The claims contained in this document in support of the Access Arrangement application have not as yet been accepted by the Regulator.

2. INFORMATION REGARDING SYSTEM CAPACITY AND VOLUME ASSUMPTIONS

General

This section provides details relating to the technical specifications and throughput assumptions of the CGP. As the CGP has only been recently commissioned, its design specification provides an appropriate description.

The CGP is designed for a maximum operating pressure of 14.8Mpa. The pipeline is DN300 (323.9mm (or approximately 12")) for its entire length of 840 kilometres.

The pipeline steel specification is API 5L Grade X70 (in accordance with API Specification for Line Pipe, API Spec 5L). Pipeline wall thickness design has been determined in accordance with the Pipeline Code AS2885. A brief summary of technical details associated with the CGP is as follows:

Applicable Code	AS2885-1997
Maximum allowable	14,800 kPa (class 900)

operating pressure (MAOP)

Steel grades	API 5L X70	
Diameter	DN300	OD 323.9mm
Wall thickness	Standard	6.91mm for 1.0 Third Party Factor
	Heavy	8.29mm for 1.2 Third Party Factor
	Extra Heavy	10.00mm for 1.44 Third Party Factor
Length	840 km	
External coating	High density polyethylene (HDPE)–1.2mm thickness. Fusion bonded epoxy (FBE) – 0.375mm down stream of inlet and Scraper stations	
Internal coating	Nil – uncoated	
Depth of cover	750mm minimum 1300mm in flood plain country 1800mm in watercourses and road crossings in accordance with requirements of relevant authorities	
Concrete coating	where the ground conditions are such that there is a risk of the soils becoming fluidised in flood situations at watercourses and flood plains	
Valve coating	Intertuff UHB over 2.5 blast clean	
Joint coating	Polyken 943-30 (inner) and 955-20 (outer) tape	

- Three off-take points (off-take and valve) at Phosphate Hill, Corrie Downs, and Mica Creek.
- Inlet stations at Ballera and Mt Howitt supply gas into the CGP.
- Pipeline markers and cathodic protection test points at intervals throughout.
- Fly over markers are at 10 km intervals.
- 5 scraper stations are located at intervals along the pipeline.

2.2 Map of CGP and Pipe Specification

A map of the CGP Route is attached as Attachment 1.

Pipe sizes, lengths and delivery capability are set out in the tables below:

Pipeline Section	Diameter (mm outside)	Length (km)
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• Ballera to Mount Isa	323.9	840
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Maximum Delivery Capability (Ballera inlet pressure = 14,800 kPa, free flow conditions)	98 TJ/day
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2.3 Average Daily and Peak Demands

The table below is based on actual average daily and peak demands for individual delivery points for calendar year 1999.

IMPORTANT NOTICE

The first two delivery points noted in the table below are single customer delivery points, and consequently the information contained in this table is confidential and commercially sensitive for these customers.

The information in this table relating to these delivery points has been deleted for the purpose of this Non-Confidential version of the Access Arrangement Information.

Off Take Point and Parameter	Volume, Flow Rate and Pressure
Phosphate Hill	
Total Annual Volume (TJ)	
Average Daily Flow Rate (GJ)	
Peak Day Flow Rate (GJ)	
Minimum Delivery Pressure (kPa)	2,000
Corrie Downs	
Total Annual Volume (TJ)	
Average Daily Flow Rate (GJ)	
Peak Day Flow Rate (GJ)	
Minimum Delivery Pressure (kPa)	5,000
Mica Creek	
Total Annual Volume (TJ)	14,624
Average Daily Flow Rate (GJ)	40,065
Peak Day Flow Rate (GJ)	59,514
Minimum Delivery Pressure (kPa)	2,000

2.4 Estimated Load Across Each Pricing Zone

As the CGP was commissioned in 1998 and has little operating history, the estimated throughput and load profiles detailed in the table below are based on experience in comparable projects and assumptions as to the timing and level of penetration of natural gas.

Estimated average daily, peak and total pipeline load for calendar years 1999 – 2004 are set out below⁴ (1999 figures are actuals). There is only one pricing zone for the CGP.

Forecasts for the years 2005 to 2020 are not provided in the table due to uncertainty regarding future loads. Assuming current market conditions the forecasts for the years 2005 to 2020 could be assumed to be similar to the forecasts for 2004.

Load and Volume	1999 (actuals)	2000	2001	2002	2003	2004
Average Daily Load (GJ/D)	47,867	78,630	80,273	84,109	87,945	99,726
Peak Load (GJ/D)	92,834	95,533	95,500	100,063	104,626	118,641
Annual Volume (TJ)	17,471	28,700	29,300	30,700	32,100	36,400

2.5 System Load Profile by Month

The load profile for the CGP is relatively constant throughout the year. Fluctuations are influenced by plant maintenance and operating programs and are not seasonal.

Month	% of total Annual Load
January	8.5
February	7.9
March	8.5
April	8.2
May	8.5
June	8.2
July	8.4
August	8.4
September	8.2
October	8.5
November	8.2

⁴ Although CGPJV regards these estimates as appropriate at the present time, CGPJV cannot and does not make any representation or warranty as to the accuracy of these estimates.

December	8.5
Total	100

2.6 Numbers of Users on the CGP as at September 2000

Number of Users	3
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ATTACHMENT 1

MAP OF CARPENTARIA GAS PIPELINE

