Description of the New South Wales Gas Network owned and operated by Jemena Gas Networks (NSW) Ltd.

The New South Wales gas network owned and operated by Jemena Gas Networks (NSW) Ltd (the Network) is made up of four covered pipelines:

i) NSW Distribution System;
ii) Central West Distribution System;
iii) Wilton-Newcastle trunk pipeline (the ‘northern trunk’); and
iv) Wilton-Wollongong trunk pipeline (the ‘southern trunk’).

The four pipelines are all classified as distribution pipelines and are dealt with in a single consolidated Access Arrangement for purposes of the National Gas Law.

The Network receives Natural Gas from the Moomba-Sydney Pipeline and its laterals (owned by the APA Group) and from the Jemena-owned Eastern Gas Pipeline (EGP) at various network receipt points; and coal seam methane from AGL at Camden.

The Network supplies natural gas to more than 1,040,000 gas consumers via approximately 24,000 km of mains operating at a number of different pressure levels. Gas is currently supplied to Sydney, Newcastle, Central Coast and Wollongong as well as over 20 country centres including those in the Central West, Central Tablelands, South Western, Southern Tablelands, Riverina and Southern Highlands regions of NSW as shown on the following map:

Low and medium pressure networks are supplied from higher pressure networks via pressure regulating stations that reduce the operating pressure to the levels required by the lower pressure networks. Pressure regulating stations are generally named according to the type of high pressure main they are supplied from – for example,
pressure regulating stations supplied from the trunk mains are called Trunk Receiving Stations (TRSs).

The networks that serve Sydney, Newcastle, the Central Coast and Wollongong are supplied from the Moomba-Sydney Pipeline at the Wilton Custody Transfer Station (CTS) and from the Eastern Gas Pipeline (EGP) at Port Kembla and Horsley Park. The JGN trunk main provides a connection between Wilton and Newcastle to the north and Wollongong to the south. This pipeline operates at a maximum allowable operating pressure (MAOP) of 6,895 kPa and supplies the Sydney, Newcastle, Central Coast and Wollongong networks via Trunk Receiving Stations (TRSs).

In Sydney and Wollongong, TRSs supply primary networks which operate at a MAOP of 3,400 kPa. The primary networks then supply secondary networks at a MAOP of 1,050 kPa via Primary Regulating Stations (PRSs). The Newcastle region does not have a primary network, so the secondary network is supplied directly from the trunk main. The trunk main and primary and secondary networks are constructed of steel.

District Regulator Stations (DRS) supply gas from secondary mains to the medium and low pressure networks. These networks operate at pressures ranging from 2 kPa to 400 kPa and are constructed for the most part of plastic. Domestic consumers and most industrial and commercial (I&C) consumers are connected to the medium and low pressure networks, while large I&C customers requiring greater volumes of gas are connected to higher pressure networks.

In country NSW, the low and medium pressure networks are supplied directly from the Moomba-Sydney Pipeline and its laterals via local Trunk Receiving Stations (TRSs) or Packaged Off-Take Stations (POTS). These arrangements are illustrated schematically in the following diagram:

Further information is available from JGN’s Access Arrangement and Access Arrangement Information which are accessible at www.Jemena.com.au.