DESCRIPTION OF THE DAMPIER TO BUNBURY NATURAL GAS PIPELINE SYSTEM AS AT 15 SEPTEMBER 2019



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1. Introduction

The Dampier to Bunbury Natural Gas Pipeline ("DBNGP") is owned by DBNGP (WA) Nominees Pty Ltd as Trustee for the DBNGP (WA) Pipeline Trust and is operated by DBNGP (WA) Transmission Pty Ltd ("DBP").

The DBNGP system is described in Section 2. The boundaries of the system are defined by the system's inlet and outlet points and notional gate points.

At inlet points, custody and title of gas transfers from shippers to DBP. Facilities upstream of the inlet points are constructed, owned and operated by shippers or by parties other than DBP.

At outlet points, custody and title of gas transfers from DBP to shippers. Facilities downstream of the outlet points are constructed, owned and operated by shippers or by parties other than DBP.

Section 3 describes the major component parts of the DBNGP system.

2. Description of the DBNGP System: Inlet Points, Outlet Points and Notional Gate Points

The schematic on the following pages describe the DBNGP system in terms of its inlet and outlet points.

"Inlet point" means a flange or joint or other point specified in a gas transportation contract as the point at which the shipper delivers gas to DBP under the contract. Table 1 defines each of the inlet points in the DBNGP system.

"Branching Points" have no contractual significance but serve to identify points of branching from the main pipeline. Each Branching Point can have more than one outlet point attached to it.

"Outlet point" means a flange or joint, notional gate point or other point specified in a gas transportation contract as a point at which DBP delivers gas to the shipper under the contract. Table 2 defines each of the outlet points.

"Notional gate point" means the point at which custody of the gas transfers from DBP to a shipper for delivery into a distribution sub-network. Each notional gate point is defined in Table 3 which also shows the associated outlet points.

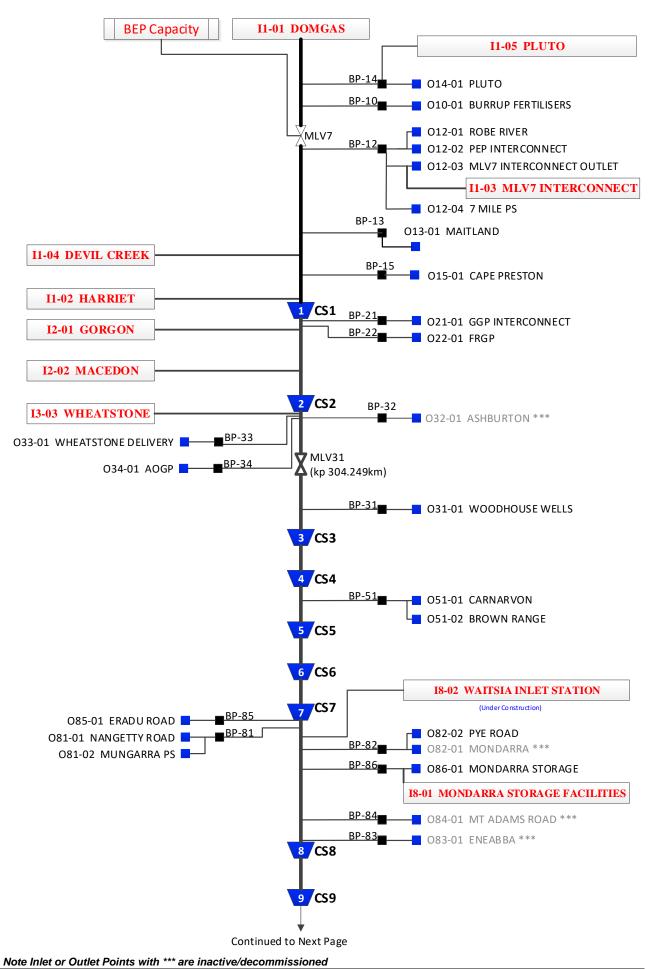
"BEP Capacity" means the accessible capacity under the BEP Lease Agreement between BEP Owners and DBP to deliver DBNGP gas using the BEP Pipeline.

The following designations are used in the schematic and tables:

| Symbol | Designation | Description |
|-------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Ixx -xx GAS INLET | Ixxx-xx | Inlet Point xxx-xx |
| | BP-zzz | Branching Point zzz |
| | Ozzz-yy | Outlet Point yy on the Branch zzz |
| | aa-b | Inline metering facility for check metering and non-billing operation purposes. Eg, KJ-A represents Kwinana Junction M2A inline meter station |
| 10 | CSn | Compressor Station CSn |
| | MLVnnn | Mainline Valve number nnn |
| BEP Capacity | | BEP Capacity as part of BEP Lease Agreement |

| Number of inlet points | Active | 10 |
|--------------------------------|--------------------|----|
| | Under Construction | 1 |
| Number of branching points | Active | 39 |
| | Under Construction | 1 |
| | Inactive | 4 |
| Number of outlet points | Active | 53 |
| | Under Construction | 1 |
| | Inactive | 7 |
| Number of notional gate points | | 12 |

(Note: "Inactive" Inlet or Outlet points refer to inactive, not used or decommissioned inlet/outlet points).



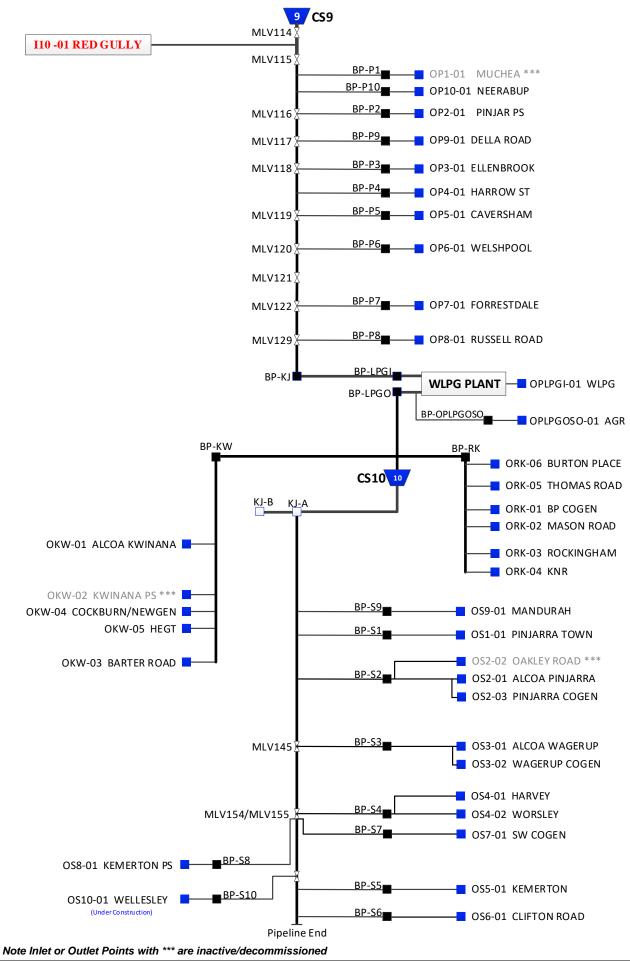


TABLE 1
GAS TRANSMISSION SYSTEM: INLET POINTS

| LOCATION | POINT DESIGNATION | DISTANCE FROM DAMPIER (Pipeline kilometres) | DESCRIPTION |
|--------------------------------|----------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DOMGAS Dampier Plant | I1-01 | 0.000 | Inlet point is at the upstream flange of the flange joint upstream of the monolithic insulation joint on the main gas pipeline within the Dampier facilities compound. |
| Pluto | I1-05 | 2.245 | Inlet point is at the upstream flange of the insulating joint between upstream ZV001 and the HV01 Valve at hottap location. This Inlet Point is located inside the Pluto Metering Compound. |
| MLV7 Interconnect Inlet | I1-03 | 21.968 | Inlet point is at the PEP side flange of isolation valve HV5020 located on the meter run 3/4 within MLV7 compound |
| Devil Creek | I1-04 | 58.66 | Inlet point is located at the insulation joint downstream of the hot-tap valve within the offtake compound. |
| Harriet | I1-02 | 136.924 | Inlet point is at the second insulation gasket upstream of valve ZV1 between the Harriet meter station and the mainline interconnecting pipe. This gasket is located inside the Harriet meter compound. |
| Gorgon | I2-01 | 137.750 | Inlet point is at the below ground insulation joint at the boundary of the 30m DBNGP easement |
| Macedon | I2-02 | 223.138 | Inlet point is at the below ground insulation joint at the boundary of the 30m DBNGP easement |
| Wheatstone | 13-03 | 272.662 | Inlet point is located within the Wheatstone Pig Receiver Facilities on either: the first insulation gasket on the interconnecting pipe between the Wheatstone Pig Receiver Facilities and the ZV2 Compound located on CS2 Emergency Station Bypass. This gasket is located inside the Wheatstone Pig Receiver Facilities. the first insulation gasket on the interconnecting pipe between the Wheatstone Pig Receiver Facilities and the Wheatstone Interconnect Compound located downstream of MLV30 on the DBNGP. This gasket is located inside the Wheatstone Pig Receiver Facilities. |
| Waitsia Inlet | I8-02 | 1041.435 | Inlet point is at the connecting flange at fence line between the adjacent Waitsia Pipeline Pig Receiver Compound (owned by others) and the DBNGP Waitsia Inlet Station compound. |
| Mondarra Storage Facilities | I8-01 | 1,043.678 | Inlet point is at the below ground insulation joint (PC3) at the western boundary of the 40m extended DBNGP easement. |
| Red Gully | I10-01 | 1,266.624 | Inlet point is at the below ground insulation joint at the boundary of the 30m DBNGP easement |

| | DESCRIPTION |
|--------------------|---------------------------------------------------------------------------|
| BEP Capacity Point | "BEP Capacity" means the accessible capacity under the BEP Lease |
| | Agreement between BEP Owners and DBP to deliver DBNGP gas using |
| | the BEP Pipeline |
| KJ-B | Inline metering facilities at Kwinana Junction for measuring the Pressure |
| | Service supporting the Outlet Point HEGT (OKW-05) |

TABLE 2
GAS TRANSMISSION SYSTEM: BRANCHING POINTS AND OUTLET POINTS

| Location | POINT DESIGNATION | DISTANCE FROM DAMPIER (Pipeline kilometres) | DESCRIPTION |
|---------------------------------------|----------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Branching Point Burrup Fertilisers | BP-10 | 3.574 | This is a branching point located at the insulation gasket downstream of the hot-tap valve within the Burrup Fertilisers metering compound |
| Burrup Fertilisers | O10-01 | 3.574 | Outlet point is at the insulation gasket downstream of the venturi nozzle RO019 located within the Burrup Fertilisers metering compound |
| Branching Point Pluto | BP-14 | 2.245 | This is a branching point located at the insulation joint downstream of the hot-tap valve within the metering compound |
| Pluto | O14-01 | 2.245 | Outlet point is at the insulating joint downstream of Pluto meter station. This joint is located outside the meter compound. |
| Branching Point MLV7 | BP-12 | 21.933 | This is a branching point located at the first reducer downstream of HV100A and HV100B valves located inside the MLV7 compound. |
| PEP Interconnect | O12-02 | 21.968 | Outlet point is at the spectacle-blind upstream joint located downstream of the meter station. |
| MLV7 Interconnect Outlet | O12-03 | 21.968 | Outlet point is at the PEP side flange of isolation valve HV5020 located on the meter run 3/4 within MLV7 compound |
| Robe River | O12-01 | 22.083 | Outlet point is at the reducer on the downstream side of the odorant injection facility at the outlet of Cajaput Well meter station. |
| 7 Mile | O12-04 | 21.950 | Outlet point is at the last insulating joint downstream of the meter runs. This joint is located inside the MLV 7 compound. |
| Branching Point Maitland | BP-13 | 29.993 | This is a branching point located at the insulation gasket downstream of the hot-tap valve within the metering compound |
| Maitland | O13-01 | 29.993 | Outlet point is at the downstream flange of the drop-out spool downstream of the hand valve HV134 within the meter station |
| Branching Point Cape Preston | BP-15 | 82.490 | This is a branching point located at the insulation joint downstream of the hot-tap valve within the metering compound |
| Cape Preston | O15-01 | 82.490 | Outlet point is at the insulating joint downstream of Cape Preston meter station. This joint is located outside the meter compound. |
| Branching Point GGP Interconnect | BP-21 | 137.2 | This is a branching point located at the connection downstream of the station bypass line within the Compressor Station at CS1 |
| GGP Interconnect | O21-01 | 137.2 | Outlet point is on the downstream pipe liking the DBNGP and the GGT and at the intersection between the DBNGP and the GGT easements |
| Branching Point FRGP | BP-22 | 137.2 | This is a branching point located on downstream flange of the hot-tap valve HV262 on CS1 emergency station bypass pipe |
| FRGP | O22-01 | 137.2 | Outlet point is the upstream joint of the spectacle-blind flange located upstream of the hand valve ZV 002 |

TABLE 2
GAS TRANSMISSION SYSTEM: BRANCHING POINTS AND OUTLET POINTS

| LOCATION | POINT DESIGNATION | DISTANCE FROM DAMPIER (Pipeline kilometres) | DESCRIPTION |
|---------------------------------------|----------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Branching Point | BP-32 | 272.644 | This is a branching point on CS 2 emergency station |
| Ashburton | | | bypass pipe located upstream of valve ZV2. |
| (Inactive) | 022.01 | 272 644 | 0.1 |
| Ashburton | O32-01 | 272.644 | Outlet point is downstream of valve SDV5101. |
| Branching Point AOGP (Inactive) | BP-34 | 272.644 | This is a branching point located downstream of the first insulation gasket downstream of valve ZV1. This gasket is located inside MLV30 compound. |
| AOGP | O34-01 | 272.644 | Inlet point is at the second insulation gasket downstream of valve ZV1 between the MLV30 Compound and the Wheatstone Pig Receiver Facilities. This gasket is located inside the Wheatstone Pig Receiver Facilities compound. |
| Branching Point Wheatstone Delivery | BP-33 | 272.662 | This is a branching point located at the downstream flange of the isolation valve ZV3 within the Wheatstone Interconnect Compound |
| Wheatstone Delivery | O33-01 | 272.662 | Outlet point is on either one of the following: the second insulation gasket downstream of valve ZV2 on the interconnecting pipe between the ZV2 Compound and the Wheatstone Pig Receiver Facilities. This gasket is located inside the Wheatstone Pig Receiver Facilities. the second insulation gasket downstream of valve ZV3 on the interconnecting pipe between the Wheatstone Interconnect Compound and the Wheatstone Pig Receiver Facilities. This gasket is located inside the Wheatstone Pig Receiver Facilities. |
| Branching Point Woodhouse Wells | BP-31 | 311.586 | This is a branching point located at downstream of the hot-tap valve within the metering compound |
| Woodhouse Wells (Exmouth PS) | O31-01 | 311.586 | Outlet point is on the downstream flange of the reducer downstream of the insulation joint within the meter compound |
| Branching Point MLV55 | BP-51 | 578.858 | This is a branching point located at the first flanged joint downstream of HV100A and HV100B located at the MLV55 compound. |
| Brown Range | O51-02 | 743.118 | Outlet point is at the insulation joint downstream of the pig receiver located at the end of the Brown Range lateral and at the boundary of the Mungullah Power Station |
| Carnarvon Power Station | O51-01 | 748.583 | Outlet point is at the insulation joint downstream of the pig receiver located at the Carnarvon Power Station. |
| Branching Point MLV90 | BP-85 | 967.096 | This is a branching point located at the pipeline junction between valve HV205C and HV206 inside the MLV90 compound. |
| Eradu Road | O85-01 | 967.116km | Outlet point is at the first isolation joint located downstream of Eradu Road meter station located inside the MLV90 compound. |
| Branching Point MLV91 | BP-81 | 996.544 | This is a branching point located at the first reducer downstream of HV100A and HV100B located at the MLV91 compound. |

TABLE 2
GAS TRANSMISSION SYSTEM: BRANCHING POINTS AND OUTLET POINTS

| LOCATION | POINT DESIGNATION | DISTANCE FROM DAMPIER (Pipeline kilometres) | DESCRIPTION |
|----------------------------------------|----------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nangetty Road | O81-01 | 996.851 | Outlet point is at the first insulation flange located downstream of the injection line of the odorant facility. This insulating flange is located inside the Nangetty Road compound. |
| Mungarra Power Station | O81-02 | 999.126 | Outlet point is on the upstream side of the isolation valves on each gas turbine generating unit located downstream of pressure relief valves. |
| Branching Point Mondarra Storage | BP-86 | 1,043.678 | This is a branching point located on the downstream flange of valve HVMON02 located inside the Mondarra Storage Meter Station. |
| Mondarra Storage | O86-01 | 1,043.678 | Outlet point is at the below ground insulation joint (PC3) at the western boundary of the 40m extended DBNGP easement. |
| Branching Point Pye Road | BP-82 | 1043.730 | This is a branching point located on the downstream flange of valve HV001 located inside the Pye Road meter station compound. |
| Mondarra (Inactive) | O82-01 | 1043.740 | Outlet point is at the insulating gasket downstream of Mondarra meter station. This gasket is located inside the Mondarra compound. |
| Pye Road | O82-02 | 1043.765 | Outlet point is at the insulating flange upstream of the odorant injection point, located inside the Boral compound at the Pye Road meter station. |
| Branching Point MLV93 | BP-84 | 1054.211 | This is a branching point located at the first insulating joint on the supply line to the meter station. The insulating joint is located in the MLV93 compound. |
| Mount Adams Road (Inactive) | O84-01 | 1054.216 | Outlet point is at the first insulation joint located downstream of Mount Adams Road meter station located inside the MLV 93 compound. |
| Branching Point CS8 | BP-83 | 1113.551 | This is a branching point located on the downstream side of HV105B. The branching point is located in the MLV95 and Eneabba meter station compound. |
| Eneabba (Inactive) | O83-01 | 1113.621 | Outlet point is at the insulation joint downstream of the launcher isolating valve. |
| Branching Point Muchea | BP-P1 | 1307.000 | This is a branching point located at the downstream flange of HV1 located in the Muchea meter station compound. |
| Muchea (Inactive) | OP1-01 | 1307.036 | Outlet point is at the reducer located downstream of the odorant injection facility. |
| Branching Point Neerabup | BP-P10 | 1309.835 | This is a branching point located at the insulation joint downstream of the hot-tap valve within the metering compound |
| Neerabup | OP10-01 | 1309.835 | Outlet point is at the insulating joint downstream of meter station. This joint is located outside the meter compound. |
| Branching Point MLV117 | BP-P9 | 1323.931 | This is a branching point comprising the downstream flanges of valves HV100A and HV100B located inside the MLV117 compound. |

TABLE 2
GAS TRANSMISSION SYSTEM: BRANCHING POINTS AND OUTLET POINTS

| LOCATION | POINT DESIGNATION | DISTANCE FROM DAMPIER (Pipeline kilometres) | DESCRIPTION |
|-----------------------------------------|----------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Della Road Meter Station (MLV117) | OP9-01 | 1323.996 | Outlet point is at the insulating joint upstream of the distribution system valve pit located outside the MLV117 compound. |
| Branching Point MLV116 | BP-P2 | 1311.157 | This is a branching point located on the downstream side of the HV 100A valve located inside the MLV116 compound. |
| Pinjar Power Station | OP2-01 | 1326.157 | Outlet point is on the upstream side of isolation valves on each gas turbine generating unit located downstream of pressure relief valves. |
| Branching Point MLV118 | BP-P3 | 1336.740 | This is a branching point located at the first insulation joint on the supply line to the Ellenbrook meter station. This insulation joint is located inside the MLV118 compound. |
| Ellenbrook | OP3-01 | 1336.750 | Outlet point is at the first insulation joint located downstream of valve HV010. |
| Branching Point Harrow Street | BP-P4 | 1343.510 | This is a branching point located at the first tee upstream of HV100A on the 350mm inlet header to the Harrow Street meter station. |
| Harrow Street | OP4-01 | 1343.610 | Outlet point is on the upstream side of the second outlet valve located downstream of odorant injection facility. |
| Branching Point MLV119 | BP-P5 | 1347.339 | This is a branching point located at the first reducer downstream of valves HV100A and HV100B located inside the MLV119 compound. |
| Caversham | OP5-01 | 1347.434 | Outlet point is at the insulation joint located downstream of the odorant injection facility. |
| Branching Point MLV120 | BP-P6 | 1359.664 | This is a branching point located at the first reducer downstream of valves HV100A and HV100B inside the MLV120 compound. |
| Welshpool | OP6-01 | 1359.714 | Outlet point is on the upstream side of the second outlet valve located downstream of the odorant injection facility. |
| Branching Point MLV122 | BP-P7 | 1379.695 | This is a branching point located at the first reducer downstream of valves HV100A and HV100B inside the MLV122 compound. |
| Forrestdale | OP7-01 | 1379.750 | Outlet point is on the upstream side of the second outlet valve located downstream of the odorant injection facility. |
| Branching Point MLV129 | BP-P8 | 1398.638 | This is a branching point located on the downstream side of valve HV700 located on the inlet side of the Russell Road pre-regulation set. The point is adjacent to the Kwinana Junction scrubber bypass. |
| Russell Road | OP8-01 | 1408.183 | Outlet point is on the upstream side of the second outlet valve located downstream of the odorant injection facility. |
| Branching Point Kwinana Junction | BP-KJ | 1399.000 | This is a branching point located at the centreline of the valve HV401A, located in the Kwinana Junction compound. |
| Branching Point Inlet to WLPG | BP-LPGI | 1401.997 | This branching point is at the first insulating flange located downstream of the pressure reducing valve PV035. |

TABLE 2
GAS TRANSMISSION SYSTEM: BRANCHING POINTS AND OUTLET POINTS

| LOCATION | POINT DESIGNATION | DISTANCE FROM DAMPIER (Pipeline kilometres) | DESCRIPTION |
|-----------------------------------------------|----------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Branching Point Second Outlet from WLPG | BP-LPGOSO | 1401.997 | This branching point is at the insulating gasket upstream of the AGR metering facility located at the second return line from the WLPG plant. |
| WLPG | OPLPGI-01 | 1402.025 | Outlet point is at the second insulating flange located downstream of the pressure reducing valve PV035. |
| Branching Point Outlet from WLPG | BP-LPGO | 1402.066 | This branching point is at the first insulating flange upstream of valve V14 located on the return line from the WLPG plant. |
| AGR | OPLPGOSO-01 | 1402.297 | Outlet point is at the spectacle blind located on the downstream side of the restriction nozzle/blind located downstream of the AGR meter skid. |
| Branching Point Kwinana West | BP-KW | 1405.217 | This is a branching point located at 500 to 300 reducer located upstream of valves KLV3 and KLV4. |
| Branching Point KLV1 | BP-RK | 1405.327 | This is a branching point located at the downstream side of valve VB11 located upstream of the Thomas Road Meter Station offtake. |
| Burton Place | ORK-06 | 1405.327 | Outlet point is downstream of insulation joint. This joint is downstream of valve HV056 inside CS 10 compound. |
| Thomas Road | ORK-05 | 1407.620 | Outlet point is on the upstream side of the TiWest valve located inside the TiWest cogeneration facility. |
| BP Cogen | ORK-01 | 1407.716 | Outlet point is at the upstream flange of the isolation valve (HV017) located downstream of the meter skid. |
| Mason Road | ORK-02 | 1409.647 | Outlet point comprises the upstream flange of the second valve located downstream of the pig receiver of the BP Kwinana lateral and the first insulation gasket downstream of the first valve located downstream of the pig receiver of the BP Kwinana lateral. |
| Kwinana Power Station (Inactive) | OKW-02 | 1409.651 | Outlet point is at the insulating gasket on the downstream side of the meter station outlet valve HV501A. |
| Cockburn PS / NewGen | OKW-04 | 1409.651 | Outlet point is at the insulation gasket on the downstream side of the sonic nozzle (F0439). |
| HEGT | OKW-05 | 1409.651 | Outlet point is at the insulation joint on the downstream side of the sonic nozzle (RO 001). |
| Barter Road | OKW-03 | 1409.751 | Outlet point comprises the upstream flange of the second meter station outlet valve downstream of the insulation joint and the upstream flange of the valve located downstream of the insulation joint. |
| Alcoa Kwinana | OKW-01 | 1410.557 | Outlet point comprises the outlet flanges on the downstream side of the meter station outlet valves HV601A and HV601B. |

TABLE 2
GAS TRANSMISSION SYSTEM: BRANCHING POINTS AND OUTLET POINTS

| LOCATION | POINT DESIGNATION | DISTANCE FROM DAMPIER (Pipeline kilometres) | DESCRIPTION |
|-------------------------------------|----------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| KNR (Previously known as WMC) | ORK-04 | 1410.837 | Outlet point comprises the upstream side of the second isolating valve located on the KNR boundary for the high pressure line and the insulation joint located upstream of the second isolation valve for the low pressure line. |
| Rockingham | ORK-03 | 1410.857 | Outlet point comprises the: i) upstream flange of the meter station outlet valve located downstream of the odorant injection facilities. ii) upstream flange of the second valve located downstream of the CSBP pipe. |
| Branching Point South 1 | BP-S1 | 1449.456 | This is a branching point located at the first insulating flange downstream of valve HV001 located upstream of the MLV143 compound. |
| Branching Point Mandurah | BP-S9 | 1434.870 | Branching point is downstream of valve HV03. This valve is located downstream of insulating joint inside the meter compound. |
| Mandurah | OS9-01 | 1434.870 | Outlet point is at the insulating joint upstream of pig launcher compound. This joint is located inside the offtake compound. |
| Pinjarra Town | OS1-01 | 1449.476 | Outlet point is on the upstream side of the second outlet valve located downstream of the odorant injection facility. |
| Branching Point South 2 | BP-S2 | 1458.106 | This is a branching point located at the anchor flange located downstream of valve PLV1 located inside the MLV143 compound. |
| Oakley Road (Inactive) | OS2-02 | 1462.592 | Outlet point is at the insulation gasket located downstream of valve HV105. |
| Alcoa Pinjarra | OS2-01 | 1463.426 | Outlet point comprises the outlet flanges on the downstream side of the meter station outlet valves HV601A and HV601B |
| Pinjarra Cogen | OS2-03 | 1463.426 | Outlet point is at the insulation gasket located downstream of valve ZV784 |
| Branching Point South 3 | BP-S3 | 1489.329 | This is a branching point located at the first tee upstream of MLV150 located inside the Wagerup West compound. |
| Alcoa Wagerup | OS3-01 | 1498.857 | Outlet point comprises the outlet flanges on the downstream side of the meter station outlet valves HV601A, HV601B and HV004. |
| Wagerup Cogen | OS3-02 | 1498.857 | Outlet point is at the insulation gasket located downstream of shutdown valve |
| Branching Point South 8 | BP-S8 | 1507.18 | This is a branching point located on the downstream side of the hand valve HV012 located inside the MLV154/155 compound. |
| Kemerton PS | OS8-01 | 1511.91 | Outlet point is at the upstream flange of the drop out spool located downstream of the insulation gasket downstream of the pressure reduction skid |
| Branching Point South 4 | BP-S4 | 1513.630 | This is a branching point located at the first tee upstream of the insulation joint adjacent to MLV154 located inside the MLV154 compound. |

TABLE 2
GAS TRANSMISSION SYSTEM: BRANCHING POINTS AND OUTLET POINTS

| LOCATION | POINT DESIGNATION | DISTANCE FROM DAMPIER (Pipeline kilometres) | DESCRIPTION |
|------------------------------|----------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Branching Point South 7 | BP-S7 | 1513.635 | This is a branching point located on the tee at the junction of the SW loop and the Worsley Cogeneration lateral, below ground in the MLV154/155 compound. |
| Branching Point Wellesley | BP-S10 | 1516.821 | The branching point is at the upstream flange of the aboveground main isolation valve ZV104, downstream of the buried hottap valve HV101 |
| Wellesley | OS10-01 | 1516.821 | Outlet point is at the aboveground connecting flange at the boundary fence, downstream of the Isolation Valve HV275 located within the Wellesley Meter Station. |
| Harvey | OS4-01 | 1522.096 | Outlet point is at the upstream flange of the isolation valve located downstream of the odorant injection facility. |
| Branching Point South 5 | BP-S5 | 1525.104 | This is a branching point located on the downstream side of the offtake valve HV1 located inside the Kemerton meter station. |
| Kemerton | OS5-01 | 1525.124 | Outlet point is at the upstream flange of the valve located downstream of the insulation joint. |
| Branching Point South 6 | BP-S6 | 1530.439 | This is a branching point located at the first reducer downstream of MLV156 and situated in the Clifton Road compound. |
| Clifton Road | OS6-01 | 1530.457 | Outlet point is at the first insulating joint located downstream of the odorant injection facility. |
| South West Cogeneration | OS7-01 | 1546.000 | Outlet point is at the first insulating flange located downstream of the meter skids. |
| Worsley | OS4-02 | 1546.620 | Outlet point is at the flange downstream of the insulation joint located downstream of the meter station outlet valve. |

TABLE 3
GAS TRANSMISSION SYSTEM: NOTIONAL GATE POINTS

| NOTIONAL GATE POINT | ASSOCIATED OUTLET POINT/S | TRANSMISSION OUTLET POINT/S DESIGNATION |
|------------------------|------------------------------------------|-----------------------------------------|
| NGP - Nangetty Rd | Nangetty Road | O81-01 |
| NGP - Eneabba | Eneabba | O83-01 |
| NGP - Muchea | Muchea | OP1-01 |
| NGP - Ellenbrook | Ellenbrook | OP3-01 |
| NGP - North Metro | Della Rd Harrow Street Caversham | OP9-01 OP4-01 OP5-01 |
| NGP - South Metro | Welshpool Forrestdale Russell Road | OP6-01 OP7-01 OP8-01 |
| NGP - Barter Road | Barter Road | OKW-03 |
| NGP - Rockingham | Rockingham Mandurah | ORK-03 OS9-01 |
| NGP - Pinjarra | Pinjarra Town Oakley Road | OS1-01 OS2-02 |
| NGP - Harvey | Harvey | OS4-01 |
| NGP - Kemerton | Kemerton | OS5-01 |
| NGP - Clifton Road | Clifton Road | OS6-01 |

NGP - "name" Notional gate point - "name"

3. Description of the DBNGP System: Component Parts

The principal component parts of the DBNGP system are:

- a) the main line between the Karratha Gas Plant near Dampier and Clifton Rd, Australind near Bunbury;
- b) gas turbine driven centrifugal compressor units and associated facilities including aftercoolers;
- c) main line valves;
- d) laterals;
- e) outlet stations:
- f) Kwinana Junction metering station;
- g) supervisory control and data acquisition (SCADA) system and the associated microwave communications facility; and
- h) odorising facilities.

General Description

The DBNGP system comprises high pressure gas transmission pipeline, including laterals, and associated compression plant, and valves, linking gas suppliers in the north west of Western Australia with markets principally in the South West.

The DBNGP system is not a single continuous entity, and consists of the following major parts.

Dampier to Kwinana Section

The Dampier to Kwinana section is rated and operates at 8.48MPa. It delivers gas to all part haul outlet points, and to all full haul outlet points between Compressor Station 9 (CS9) and Kwinana Junction. Five laterals ranging in diameter from 350mm (14 inches) to 150mm (6 inches) are connected to this pipeline section. The main line loops to Wesfarmers LPG Plant at Kwinana Junction. Under an arrangement with Wesfarmers LPG Pty Ltd, gas leaves the system at a point immediately upstream of the company's LPG extraction plant at Kwinana and is returned to the system immediately downstream of the plant.

Kwinana Junction

Kwinana Junction, 1,399km downstream of Dampier, is a major junction in the gas transmission system. All gas delivered to Kwinana West Lateral, Rockingham Lateral, WLPG Plant and Pipeline South passes through Kwinana Junction. Facilities for gas quality measurement upstream and downstream of the LPG plant are also located at Kwinana Junction.

Kwinana West Lateral

This section is rated at 6.89MPa and operates at approximately 4.5MPa. It consists of three different pipes ranging in diameter from 500mm (20 inches) to 200mm (8 inches). The Kwinana West Lateral delivers gas to outlet points at Alcoa Kwinana, Kwinana Power Station, and to the outlet point at Barter Road.

Rockingham Lateral

A short 180m long, 600mm (18 inches) pipeline provides a link between the suction of CS10 and Rockingham lateral. The Rockingham lateral and the link are rated at 6.89MPa and operate at approximately 4.5MPa. They consist of three different pipes ranging in diameter from 300mm (12 inches) to 150mm (6 inches). The Rockingham Lateral delivers gas to outlet points in the Kwinana industrial area and supplying the distribution system serving Rockingham and Mandurah.

Pipeline South

Compressor Station Number 10 (CS10) is located at the beginning of Pipeline South. Pipeline South MAOP is 6.89MPa. It consists of three different pipes ranging in diameter from 500mm (20 inches) down to 200mm (8 inches). It terminates at MLV157 located at Clifton Road, north of Bunbury. Five laterals ranging in diameter from 450mm (14 inches) to 250mm (10 inches) are connected to this pipeline section. The pipeline section between MLV150 and MLV154 is looped with 18" diameter pipeline. The Pipeline South delivers gas to outlet points at Alcoa Pinjarra, Alcoa Wagerup, Worsley Alumina, South West Cogen, Kemerton Power Station, and to outlet points supplying the distribution systems at Pinjarra Town, Oakley Road, Harvey, Kemerton and south of Clifton Road.

Stage 4, 5A and 5B Looping Sections

The 26" diameter loop sections have been designed, constructed and tested to operate at 10.2MPa, but are currently operated at the same pressure as the existing Mainline. Stage 4 consists of 217km loops in 10 sections immediately downstream of CS1 to CS10. Stage 5A loops continues from stage 4 for another 571km. Stage 5B loops continue 430km from stage 5A but also includes the eleventh section from MLV 7 to CS 1. This is called loop 0.

The physical characteristics of the main pipeline and laterals are in the following Tables 4 and 5. The details for the looped sections are set out in Table 6.

Mainline Valves

Areas through which the DBNGP passes are classified (in accordance with Australian Standard 2885) as broad rural R1 and suburban T1. In areas classified as R1, main line valves are spaced approximately 30km apart on the Mainline and 60km apart on the loops. They are approximately 10km apart in areas classified as T1. The majority of the mainline valves can be remotely actuated from the control centre.

"MAOP" denotes maximum allowable operating pressure.

TABLE 4 MAIN LINE: PHYSICAL CHARACTERISTICS

| SECTION: | DAMPIER TO KWINANA JUNCTION | | |
|----------------|-----------------------------|------------------|------------------|
| Length | | 1,311.2km | 87.4km |
| Nominal size | | 660mm | 660mm |
| Wall thickness | | 8.74mm | 12.7mm |
| Steel type | | API 5LX 65 DSAW | API 5LX 65 DSAW |
| MAOP | | 8,480kPa (gauge) | 8,480kPa (gauge) |

| SECTION: | KWINANA JUNCTION - WLPG PLANT - KWINANA JUNCTION | |
|----------------|--------------------------------------------------|------------------|
| Length | | 6.4km |
| Nominal size | | 660mm |
| Wall thickness | | 14.27mm |
| Steel type | | API 5LX 65 DSAW |
| MAOP | | 8,480kPa (gauge) |

| SECTION: | KWINANA JUNCTION TO MAIN LINE VALVE 141 | |
|----------------|-----------------------------------------|------------------|
| Length | | 10.8km |
| Nominal size | | 500mm |
| Wall thickness | | 7.94mm |
| Steel type | | API 5LX 65 DSAW |
| MAOP | | 6,890kPa (gauge) |

| SECTION: | MAIN LINE VALVE 141 TO MAIN LINE VALVE 150 | |
|----------------|--------------------------------------------|------------------|
| Length | 7 | 73.5km |
| Nominal size | 5 | 500mm |
| Wall thickness | 5 | 5.56mm |
| Steel type | A | API 5LX 65 DSAW |
| MAOP | 6 | 5,890kPa (gauge) |

| SECTION: | MAIN LINE VALVE 150 TO MAIN LINE VALVE 154 | |
|----------------|--------------------------------------------|------------------|
| Length | | 23.9km |
| Nominal size | | 250mm |
| Wall thickness | | 4.80mm |
| Steel type | | API 5LX 52 ERW |
| MAOP | | 6,890kPa (gauge) |

| SECTION: | MAIN LINE VALVE 154 TO MAIN LINE VALVE 157 | |
|----------------|--------------------------------------------|------------------|
| Length | | 16.9km |
| Nominal size | | 200mm |
| Wall thickness | | 4.80mm |
| Steel type | | API 5LX 52 ERW |
| MAOP | | 6,890kPa (gauge) |

TABLE 5
GAS TRANSMISSION SYSTEM LATERALS (CONTINUED)

| HAMERSLEY IRON | |
|----------------|------------------|
| Length | 0.5km |
| Nominal size | 200mm |
| Wall Thickness | 6.4mm |
| Steel Type | API 5LX 52 ERW |
| MAOP | 8,480kPa (gauge) |

| GGT INTERCONNECT | |
|------------------|-------------------|
| Length | 1.48km |
| Nominal size | 300mm |
| Wall Thickness | 9.5mm |
| Steel Type | API 5LX42 |
| MAOP | 10,200kPa (gauge) |

| GGT INTERCONNECT INLET PIPE | |
|-----------------------------|------------------|
| Length | 0.515km |
| Nominal size | 400mm |
| Wall Thickness | 8.06mm |
| Steel Type | API 5LX70 |
| MAOP | 8,480kPa (gauge) |

| CARNARVON | | |
|----------------|------------------|------------------|
| Length | 163.7km | 7.4km |
| Nominal size | 150mm | 150mm |
| Wall Thickness | 4.8mm | 6.4mm |
| Steel Type | API 5LX 42 ERW | API Grade B ERW |
| MAOP | 8,480kPa (gauge) | 1,900kPa (gauge) |

| BROWN RANGE LATERAL | |
|---------------------|------------------|
| Length | 0.59km |
| Nominal size | 150mm |
| Wall Thickness | 10.97mm |
| Steel Type | API 5LX 42 ERW |
| MAOP | 8,480kPa (gauge) |

| MUNGARRA | |
|----------------|--------------------|
| Length | 2.5km |
| Nominal size | 150mm |
| Wall Thickness | 6.4mm |
| Steel Type | API 5L Grade B ERW |
| MAOP | 8,480kPa (gauge) |

| PINJAR | |
|----------------|------------------|
| Length | 14.2km |
| Nominal size | 350mm |
| Wall Thickness | 7.1mm |
| Steel Type | API 5LX 52 ERW |
| MAOP | 8,480kPa (gauge) |

TABLE 5 GAS TRANSMISSION SYSTEM LATERALS (CONTINUED)

| RUSSELL ROAD | |
|----------------|------------------|
| Length | 7.3km |
| Nominal size | 300mm |
| Wall Thickness | 9.5mm |
| Steel Type | API 5LX 46 ERW |
| MAOP | 6,890kPa (gauge) |

| KWINANA WEST | | | |
|----------------|------------------|------------------|------------------|
| Length | 2.0km | 2.8km | 1.5km |
| Nominal size | 500mm | 350mm | 200mm |
| Wall Thickness | 7.9mm | 9.5mm | 8.7mm |
| Steel Type | API 5LX 65DSAW | API 5LX 52 ERW | API Grade B ERW |
| MAOP | 6,890kPa (gauge) | 6,890kPa (gauge) | 6,890kPa (gauge) |

| CS10 TO ROCKINGHAM LATERAL PIPELINE (ROCKINGHAM LATERAL LINK) | | |
|---------------------------------------------------------------|------------------|--|
| Length | 0.18km | |
| Nominal size | 600mm | |
| Wall thickness 12.65mm | | |
| Steel type API 5LX 70 ERW | | |
| MAOP | 6,890kPa (gauge) | |

| ROCKINGHAM | | |
|----------------|------------------|--------------------|
| Length | 3.2km | 2.6km |
| Nominal size | 300mm | 150mm |
| Wall Thickness | 9.5mm | 6.4mm |
| Steel Type | API 5LX 46 ERW | API 5L Grade B ERW |
| MAOP | 6,890kPa (gauge) | 6,890kPa (gauge) |

| KNC/BP (Part of Rockingham Lateral Located Downstream of Mason Road Outlet Station) | | |
|-------------------------------------------------------------------------------------|------------------|--|
| Length | 1.6km | |
| Nominal size | 250mm | |
| Wall Thickness | 9.3mm | |
| Steel Type | API 5LX 42 ERW | |
| MAOP | 6,890kPa (gauge) | |

| COGEN (Part of Rockingham Lateral Located Downstream of Cogen Outlet Station) | | |
|-------------------------------------------------------------------------------|------------------|--|
| Length | 0.9km | |
| Nominal size | 200mm | |
| Wall Thickness | 8.2mm | |
| Steel Type | API 5LX 42 ERW | |
| MAOP | 6,890kPa (gauge) | |

| TIWEST COGENERATION LATERAL (Part of Rockingham Lateral) | | |
|----------------------------------------------------------|------------------|--|
| Length | 0.58km | |
| Nominal size | 150mm | |
| Wall Thickness | 7.1mm | |
| Steel Type | API 5LX 42 ERW | |
| MAOP | 6,890kPa (gauge) | |

TABLE 5
GAS TRANSMISSION SYSTEM LATERALS (CONTINUED)

| ALCOA PINJARRA | | |
|----------------|--------------------|------------------|
| Length | 2.5km | 2.9km |
| Nominal size | 300mm | 300mm |
| Wall Thickness | 7.1mm | 9.5mm |
| Steel Type | API 5L Grade B ERW | API 5LX 52 ERW |
| MAOP | 6,890kPa (gauge) | 6,890kPa (gauge) |

| ALCOA WAGERUP | | |
|----------------|--------------------|------------------|
| Length | 8.0km | 1.5km |
| Nominal size | 350mm | 350mm |
| Wall Thickness | 7.1mm | 9.5mm |
| Steel Type | API 5L Grade B ERW | API 5LX 42 ERW |
| MAOP | 6,890kPa (gauge) | 6,890kPa (gauge) |

| Worsley | |
|----------------|------------------|
| Length | 32.9km |
| Nominal size | 250mm |
| Wall Thickness | 4.8mm |
| Steel Type | API 5LX 52 ERW |
| MAOP | 6,890kPa (gauge) |

| SOUTH WEST COGENERATION LATERAL | |
|---------------------------------|------------------|
| Length | 32.9km |
| Nominal size | 450mm |
| Wall Thickness | 6.35mm |
| Steel Type | API 5LX 60 ERW |
| MAOP | 8,280kPa (gauge) |

| KEMERTON POWER STATION LATERAL | |
|--------------------------------|------------------|
| Length | 4.94km |
| Nominal size | 300mm |
| Wall Thickness | 6.4mm |
| Steel Type | API 5LX 42 ERW |
| MAOP | 6,900kPa (gauge) |

| WELLESLEY LATERAL | |
|-------------------|------------------|
| Length | 0.705km |
| Nominal size | 200mm |
| Wall Thickness | 5.6mm |
| Steel Type | API 5LX 52 ERW |
| MAOP | 6,900kPa (gauge) |

TABLE 6 LOOPING SECTIONS

| LOOP 0 (DOWNSTREAM OF MLV 7) | |
|------------------------------|------------------------------------------------|
| Length | 114.948km |
| Nominal size | 660mm |
| Wall Thickness | 8.72mm |
| Steel Type | API 5LX 70 ERW |
| MAOP | Current Operating 8,480kPag, Design 10,200kPag |

| LOOP 1 (DOWNSTREAM OF CS1) | |
|----------------------------|------------------------------------------------|
| Length | 118.905km |
| Nominal size | 660mm |
| Wall Thickness | 8.72mm |
| Steel Type | API 5LX 70 ERW |
| MAOP | Current Operating 8,480kPag, Design 10,200kPag |

| LOOP 2 (DOWNSTREAM OF CS2) | |
|----------------------------|------------------------------------------------|
| Length | 121.929km |
| Nominal size | 660mm |
| Wall Thickness | 8.72mm |
| Steel Type | API 5LX 70 ERW |
| MAOP | Current Operating 8,480kPag, Design 10,200kPag |

| LOOP 3 (DOWNSTREAM OF CS3) | |
|----------------------------|------------------------------------------------|
| Length | 119.851km |
| Nominal size | 660mm |
| Wall Thickness | 8.72mm |
| Steel Type | API 5LX 70 ERW |
| MAOP | Current Operating 8,480kPag, Design 10,200kPag |

| LOOP 4 (DOWNSTREAM OF CS4) | |
|----------------------------|------------------------------------------------|
| Length | 120.580km |
| Nominal size | 660mm |
| Wall Thickness | 8.72mm |
| Steel Type | API 5LX 70 ERW |
| MAOP | Current Operating 8,480kPag, Design 10,200kPag |

| LOOP 5 (DOWNSTREAM OF CS5) | |
|----------------------------|------------------------------------------------|
| Length | 119.530km |
| Nominal size | 660mm |
| Wall Thickness | 8.72mm |
| Steel Type | API 5LX 70 ERW |
| MAOP | Current Operating 8,480kPag, Design 10,200kPag |

| LOOP 6 (DOWNSTREAM OF CS6) | |
|----------------------------|------------------------------------------------|
| Length | 117.320km |
| Nominal size | 660mm |
| Wall Thickness | 8.72mm |
| Steel Type | API 5LX 70 ERW |
| MAOP | Current Operating 8,480kPag, Design 10,200kPag |

| LOOP 7 (DOWNSTREAM OF CS7) | |
|----------------------------|------------------------------------------------|
| Length | 110.13km |
| Nominal size | 660mm |
| Wall Thickness | 8.72mm |
| Steel Type | API 5LX 70 ERW |
| MAOP | Current Operating 8,480kPag, Design 10,200kPag |

| LOOP 8 (DOWNSTREAM OF CS8) | |
|----------------------------|------------------------------------------------|
| Length | 123.20km |
| Nominal size | 660mm |
| Wall Thickness | 8.72mm |
| Steel Type | API 5LX 70 ERW |
| MAOP | Current Operating 8,480kPag, Design 10,200kPag |

| LOOP 9 (DOWNSTREAM OF CS9) | |
|----------------------------|------------------------------------------------|
| Length | 90.54km |
| Nominal size | 660mm |
| Wall Thickness | 8.72mm |
| Steel Type | API 5LX 70 ERW |
| MAOP | Current Operating 8,480kPag, Design 10,200kPag |

| LOOP 10 (DOWNSTREAM OF CS10) | |
|------------------------------|------------------------------------------------|
| Length | 71.01km |
| Nominal size | 660mm |
| Wall Thickness | 8.72mm |
| Steel Type | API 5LX 70 ERW |
| MAOP | Current Operating 8,480kPag, Design 10,200kPag |

| SOUTHERN LOOPING (MAIN LINE VALVE 145 TO MAIN LINE VALVE 154) | | |
|---------------------------------------------------------------|------------------|--|
| Length | 24.3km | |
| Nominal size | 450mm | |
| Wall thickness | 6.35mm | |
| Steel type | API 5LX 60 ERW | |
| MAOP | 8,280kPa (gauge) | |

Compressor Stations

Ten compressor station sites are spaced at intervals of about 140km along the main line. Gas turbine driven centrifugal compressors at these stations are used to maintain pipeline pressure to meet natural gas demand.

A summary of compression plant is presented in Table 7.

TABLE 7
COMPRESSOR STATIONS

| COMPRESSOR STATION | DISTANCE FROM DAMPIER (KM) | GAS TURBINE DRIVER | | |
|-----------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--|
| Pluto Compressor | 2.245 | Waukesha L36GSI/GLD 750hp | (10MW) | |
| 1 | 137.2 | Unit 1 Solar Mars 15000hp Unit 2 Solar Mars 15000hp | (10MW) (10MW) | |
| 2 | 272.1 | Unit 1 General Electric LM500(Inactive) Unit 2 Solar Mars 15000hp Unit 3 Solar Mars 15000hp | (4MW) (10MW) (10MW) | |
| 3 | 409.3 | Unit 1 Solar Mars 15000hp (10MW) Unit 2 General Electric Model LM500 (Inactive) (4MW) Unit 3 Solar Mars 15000hp (10MW) | | |
| 4 | 546.9 | Unit 1 General Electric LM500 (Inactive) Unit 2 Solar Mars 15000hp Unit 3 Solar Mars 15000hp | (4MW) (10MW) (10MW) | |
| 5 | 684.8 | Unit 1 Solar Mars 15000hp Unit 2 Solar Mars 15000hp | (10MW) (10MW) | |
| 6 | 824.9 | Unit 1 General Electric Model LM500 (Inact Unit 2 Nuovo Pignone PGT10 Unit 3 Solar Mars 15000hp | (10MW) (10MW) | |
| 7 | 966.6 | Unit 1 General Electric LM500 (Inactive) Unit 2 Solar Mars 15000hp Unit 3 Solar Mars 15000hp | (4MW) (10MW) (10MW) | |
| 8 | 1114.1 | Unit 1 Solar Mars 15000hp Unit 2 Solar Mars 15000hp | (10MW) (10MW) | |
| 9 | 1256.8 | Unit 1 Nuovo Pignone PGT10 Unit 2 Solar Mars 15000hp | (10MW) (10MW) | |
| 10 | 1402.3 | Unit 1 Solar Centaur 4000hp (Inactive) Unit 2 Solar Centaur 4000hp (Inactive) Unit 3 Solar Taurus 10000hp Unit 4 Solar Taurus 10000hp | (3.0MW) (3.0MW) (7MW) (7MW) | |

Aftercoolers

Aftercoolers are installed immediately downstream of the inlet point I1-01, and immediately downstream of CS1 to CS10 compressor stations. The aftercoolers have been designed to control the downstream gas temperature below 45° C.

Outlet and Inlet Stations

DBP owns and operates outlet stations on the DBNGP.

"Outlet station" means either a gate station or the metering equipment site associated with an outlet point, and includes all facilities installed at the site to perform overpressure protection, reverse flow protection, excessive flow protection, gas metering and measurement, and telemetry, and all standby, emergency and safety facilities, and all ancillary equipment and services.

Inlet stations are located upstream of the inlet points to the DBNGP system and are owned and operated by parties other than DBP.

SCADA and Communication Systems

The DBNGP SCADA and Communication Systems provide Supervisory, Control and Data Acquisition (SCADA) functionality for Compressor Stations, Main Line Valves, Meter stations and other associated facilities. It also provides all telephony, mobile voice radio, corporate ethernet and local area network connections.

The DBNGP SCADA system is critical in the monitoring and controlling of the pipeline operation, and the collection and storage of pipeline data required for the physical and commercial operation. It is a Telvent Oasys DNA 7.5 System located at DBP Head Office as well as a fully functional backup system at DBP Jandakot depot.

The DBNGP communication network is separated into two parts. The Northern Network covers the pipeline section from Dampier to Perth while the Southern Network covers the section from Perth to Bunbury. The Northern Network is a digital system fully owned and operated by DBP. Support and infrastructure for the Southern Network from Perth to Bunbury is shared between Western Power and DBP, however a communication upgrade project is current being carried out to convert this into a fully owned and operated DBP system.

Odorising

Gas in the main pipeline between Karratha Gas Plant and the Wesfarmers LPG plant at Kwinana is not odorised. Upstream of Kwinana Junction, gas is odorised at outlet stations with the exception of those stations serving the Port Hedland Pipeline and the Geraldton area. Gas into the Geraldton area is odorised at the Nangetty Road outlet station. Downstream from Kwinana Junction, gas is odorised in accordance with the *Gas Standards Act* sufficient for commercial/industrial use. The level of odorant is increased at outlet stations delivering gas into the distribution sub-networks.