Air Emissions Monitoring Programme

Atmospheric Emission Points		Monitoring location height	Parameter						
Emission point code	Description		CO	CO_2	CH_4	NOx	SO_2	Solid particles	VOC
A01	High Pressure Flare	-	NR	NR	NR	NR	NR	NR	NR
A02	Low Pressure Flare	-	NR	NR	NR	NR	NR	NR	NR
A03	Gas Turbine Compressor A	13 m	B	A	A	B	A	A	B
A04	Gas Turbine Compressor B	13 m							
A05	Gas Turbine Compressor C	13 m							
A06	Gas Engine Generator A	8 m	B	A	A	B	A	A	B
A07	Gas Engine Generator B	8 m							
A08	Gas Engine Generator C	8 m							
A09	Emergency Diesel Generator	-	NR	NR	NR	NR	NR	NR	NR

A = Annually; B = biannually (i.e. every 6 months); NR = Not Required;

Flow Meters

Gas Flow Meter	Description	Location
230.1 FIT.008	High pressure flare meter	Latitude: -14.243973 Longitude: 129.435191
230.1 FIT.002	Low pressure flare meter	
420.1 FIT 007	Fuel gas to flare purge distribution	
420.1 FIT 161	Gas Turbine Compressor A 01.360.1.A.001A	Latitude: -14.242052 Longitude: 129.435811
420.1 FIT 261	Gas Turbine Compressor B 01.360.1.A.001B	Latitude: -14.242328 Longitude: 129.435709
420.1 FIT 361	Gas Turbine Compressor C 01.360.1.A.001C	Latitude: -14.242557 Longitude: 129.43557
420.1 FIT 004	Low pressure fuel gas to generators	Latitude: -14.243071 Longitude: 129.435511

Air emission concentration limits and trigger values

Atmospheric Emission Points		Concentration limits					Trigger values
Emission point code	**Description**	**Sulfur dioxide (SO2) ***	**Nitrogen dioxide (NO_2) or nitric oxide (NO) or both, as NO_2 equivalent ***	**Carbon monoxide (CO) ***	**Volatile organic compounds (VOCs), as n-propane equivalent ***	**Smoke**	**Smoke**
		mg/m³	**mg/m³**	**mg/m³**	**mg/m³**		
A01	High Pressure Flare	-	-	-	40[2]	No visible emission other than for a total period of no more than 5 minutes in any 2 hours	Ringelmann 1 or 20% opacity
A02	Low Pressure Flare						
A03	Gas Turbine Compressor A	100[2]	350[2]	100[1]	40[2]	-	-
A04	Gas Turbine Compressor B						
A05	Gas Turbine Compressor C						
A06	Gas Engine Generator A	100[2]	2000[2]	1600[3]	40[2]	-	-
A07	Gas Engine Generator B						
A08	Gas Engine Generator C						
A09	Emergency Diesel Generator	-	-	-	-	-	-

*Dry, 273K, 101.3 kPa, 15% O_2

[1] Integrated Pollution Prevention and Control Reference Document on Best Available Techniques for Large Combustion Plants, European Commission 2006
[2] Protection of the Environment Operations (Clean Air) Regulation 2010, New South Wales
[3] Based on Waukesha gas engines, VHP Series Four L7044GSI – technical data, GE Energy