

Operator : Valero Energy Ltd

Installation Location : Pembroke Refinery, Pembroke, SA71 5SJ

Parameters: sulphur dioxide, oxides of nitrogen, dust (particulate matter) and carbon monoxide - (by discontinuous measurement)  
(For use for 50 to >100 MW(th) LCP and for parallel test reporting for LPC of 100 or more MW(th))

Discontinuous Monitoring for Sulphur Dioxide - H1						
Reference point	Date & Time of sampling	Flue gas flow rate (Nm <sup>3</sup> /hour)	Fuel or fuels used during sampling period, [include S content(s), mass flow rate(s)]	Measured concentration (mg/Nm <sup>3</sup> )	Sampling method used (refer to standards)	CEMS result (where continuous monitor is in use) over sampling period (hourly mean)
A6	04/07/22 11:00 - 12:00	94418	Fuel Gas. Flow = 3.47 te/hr, H2S = 0.5 ppm	1,973	Infra Red	
A12	25/01/22 11:22 - 12:22	76016	Fuel Gas. Flow = 5.88 te/hr, H2S = 0.5 ppm	5	Infra Red	

Discontinuous Monitoring for Oxides of Nitrogen - H1						
Reference point	Date & Time of sampling	Flue gas flow rate (Nm <sup>3</sup> /hour)	Fuel or fuels used during sampling period, [include mass flow rate(s)]	Measured concentration (mg/Nm <sup>3</sup> )	Sampling method used (refer to standards)	CEMS result (where continuous monitor is in use) over sampling period (hourly mean)
A6	04/07/22 11:00 - 12:00	94418	Fuel Gas. Flow = 3.47 te/hr, H2S = 0.5 ppm	254	BS EN 14792	
A12	25/01/22 11:22 - 12:22	76016	Fuel Gas. Flow = 5.88 te/hr, H2S = 0.5 ppm	168	BS EN 14792	

Discontinuous Monitoring for Particulate (Dust) - H1						
Reference point	Date & Time of sampling	Flue gas flow rate (Nm <sup>3</sup> /hour)	Fuel or fuels used during sampling period, [include mass flow rate(s)]	Measured concentration (mg/Nm <sup>3</sup> )	Sampling method used (refer to standards)	CEMS result (where continuous monitor is in use) over sampling period (hourly mean)
A6	26/01/22 13:08 - 14:08	94418	Fuel Gas. Flow = 4.25 te/hr, H2S = 0.5 ppm	1.9	BS EN 13284-1	
A12	25/01/22 11:22 - 12:28	76016	Fuel Gas. Flow = 5.88 te/hr, H2S = 0.5 ppm	3.8	BS EN 13284-1	

Discontinuous Monitoring for Carbon Monoxide - H1						
Reference point	Date & Time of sampling	Flue gas flow rate (Nm <sup>3</sup> /hour)	Fuel or fuels used during sampling period, [include mass flow rate(s)]	Measured concentration (mg/Nm <sup>3</sup> )	Sampling method used (refer to standards)	CEMS result (where continuous monitor is in use) over sampling period (hourly mean)
A6	04/07/22 11:00 - 12:00	94418	Fuel Gas. Flow = 3.47 te/hr, H2S = 0.5 ppm	2	BS EN 15058	
A12	25/01/22 11:22 - 12:22	76016	Fuel Gas. Flow = 5.88 te/hr, H2S = 0.5 ppm	3	BS EN 15058	

Signed : RD LivockName : Richard Livock

On behalf of the Operator Valero Energy Ltd

Date : 04/07/2022