

FORM AIR 13: Periodic monitoring of non-LCP

Permit Number: EPR/YP3930EX

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]

Release point	Parameter	Date and 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)
A11	Sulphur dioxide	20/01/21 14:06 - 15:06	74819	Fuel Gas. Flow Rate = 3.72 te/hr, H2S = 0.5 ppm	10	M21
	Oxides of nitrogen	20/01/21 14:06 - 15:06	74819	Fuel Gas. Flow Rate = 3.72 te/hr, H2S = 0.5 ppm	153	BS EN 14792
	Particulate (PM <sub>10</sub> )	20/01/21 14:10 - 15:16	74819	Fuel Gas. Flow Rate = 3.72 te/hr, H2S = 0.5 ppm	4	BS EN 13284-1
	Carbon monoxide	20/01/21 14:06 - 15:06	74819	Fuel Gas. Flow Rate = 3.72 te/hr, H2S = 0.5 ppm	4	BS EN 15058
A13	Sulphur dioxide	19/07/21 12:30 - 13:30	24951	Fuel Gas. Flow Rate = 0.83 te/hr, H2S = 0.5 ppm	4	M21
	Oxides of nitrogen	19/07/21 12:30 - 13:30	24951	Fuel Gas. Flow Rate = 0.83 te/hr, H2S = 0.5 ppm	168	BS EN 14792
	Particulate (PM <sub>10</sub> )	19/07/21 12:30 - 13:36	24951	Fuel Gas. Flow Rate = 0.83 te/hr, H2S = 0.5 ppm	5	BS EN 13284-1
	Carbon monoxide	19/07/21 12:30 - 13:30	24951	Fuel Gas. Flow Rate = 0.83 te/hr, H2S = 0.5 ppm	13	BS EN 15058
A19	Oxides of nitrogen	22/07/21 10:15 - 11:15	40779	Fuel Gas. Flow Rate = 2.19 te/hr, H2S = 0.5 ppm	148	BS EN 14792
	Carbon monoxide	22/07/21 10:15 - 11:15	40779	Fuel Gas. Flow Rate = 2.19 te/hr, H2S = 0.5 ppm	4	BS EN 15058

Signed : RD Livock

Name : Richard Livock

On behalf of the Operator Valero Energy Ltd.

Date : 06/01/2022