

Permit Reference Number: BU2322

Operator: Dynea UK Ltd

Installation: Dynea, Alyn Works

Form Number: A1

Reporting of Emissions to Air for the year.....2014.....

Emissions to Air						
Emission Point	Substance / Parameter	Emissions Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation / Certification ^[4]
A18	Formaldehyde	2 mgm ⁻³ [6]	0.05	BS EN 13649	11:38 – 12:08 09/05/13	MCERTs/UKAS1015
A18	Methanol	25 mgm ⁻³ [6]	0.67	BS EN 13649	10:55 – 11:25 09/05/13	MCERTs/UKAS1015
A18	Phenol	5 mgm ⁻³ [6]	1.8	BS EN 13649	10:38 – 11:08 09/05/13	MCERTs/UKAS1015

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.

[5] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated. The following uncertainties are quoted on a different basis (basis as stated) – {The basis of any other uncertainty figure needs to be stated. Where no figure is available the Agency will need to agree and appropriate uncertainty value}.

[6] The emission limit values are expressed as daily averages and corrected to {273K, 101.3kPa, 11% oxygen, dry}.

Signed

Date: 23/01/2015.....

(authorised to sign as representative of the Operator)

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Form Number: E1

Reporting of Energy Usage for the year.....2014.....

Energy Usage				Units
Energy Source	Energy Usage		CO ₂ Produced (tonnes)	
	Quantity	Primary Energy (MWh)		
Electricity*	MWh	1989	5166	859
Steam**	tonnes	3059	2929	447
Gas oil	tonnes	5.810	73.3	19.1
Heavy fuel oil	tonnes	0	0	0
TOTAL		-	8168	1325

*Conversion factor for delivered electricity to primary energy = 0.385

** Steam is supplied from natural gas fired boilers.

Operator comments:

Boiler efficiency = 80%

Energy use is dependent on product mix.

Signed

Date: 23/01/5015.....

(authorised to sign as representative of the Operator)

Trends In Energy Usage			
Year	Primary Energy	CO ₂ produced	CO ₂ per unit output
2014	8168	1325	0.035
2013	8968.0	1573.3	0.041
2012	8484.1	1487.1	0.037
2011	7973.4	1381.2	0.023
2010	9238.4	1617.1	0.025
2009	7447.9	1318.2	0.022
2008	8738.4	1554.9	0.026
2007	9764.9	1554.9	0.021
2006	10578.8	1746.2	0.025
2005	10547.7	1887.6	0.028
2004	13026.9	2329.1	0.034

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Form Number: R1

Reporting of Waste Disposal and Recovery for the year.....2014.....

Waste Disposal and Recovery			
Description	Route	Disposal	Recovery
Hazardous Waste	D1	0	
	D8	0	
	D13	0	
	R3		0.400
	R4		0.025
	Site	0	0
Total		0	0.425
Non Hazardous Waste	D1	310.92	
	D8	0	
	D13	0	
	R3		392.00
	R4		45.0
	Site	0	1522.632
Total		310.92	1959.632
TOTAL WASTE		310.92	1960.057

Operator comments: Hazardous waste recycled on site = 0.02% Waste recycled on site = 68.76% Waste recycled or recovered = 86.31%

Signed

Date: 23/01/2015.....

(authorised to sign as representative of the Operator)

Trends in Waste Disposal and Recovery			
Year	Parameter	Total Waste	Waste per unit output
	Named waste		
2014		2270.977	0.104
2013		2983.863	0.078
2012		2817.205	0.070
2011		2387.363	0.040
2010		3030.798	0.046
2009		3205.57	0.052
2008		4231.75	0.071
2007		5227.77	0.064
2006		5654.91	0.076
2005		4985.15	0.075

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Reporting of Performance Indicators for the year...2014....

[illegible]

Operator comments:

Waste hazard score = % of waste that is hazardous.

Waste disposal score = % of waste that is recycled on site.



Signed

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Form Number: WU1

Reporting of Water Usage for the year.....2014.....

Water Usage		
Water Source	Usage (m ³)	Specific Usage (m ³ te ⁻¹)
Mains water	14586	0.67
Site borehole	0	
River abstraction	0	
TOTAL WATER USAGE	14586	0.67

Trends In Water Usage			
Year	Named Water Source	Total Water Usage	Water per unit output
2014	Mains	14586	0.67
2013	Mains	22762	0.60
2012	Mains	23355	0.58
2011	Mains	26252	0.44
2010	Mains	21512	0.32
2009	Mains	19137	0.31
2008	Mains	14865	0.25
2007	Mains	20286	0.25

Operator comments:

Water use is dependent on product mix.

Signed

Date: 23/01/2015.....

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