

Permit Reference Number: NP3030BJ

Operator: EnerSys Ltd

Installation: EnerSys Newport

Form Number: A1

Reporting of Emissions to Air for the period from: October 1st 2015 to December 31st 2015

Emissions to Air										
Emission Point	Substance / Parameter	Emission Limit Value (Annual) ^[6]	Spot Limit Values ^[6]	Spot Result ^[1]	Process run time	Quarter Result ^[7]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation /Certification ^[4]	Uncertainty ^[5]
A1	Lead	1.0 mg/m ³	1.0 mg/m ³	N/R	0	0	BS EN 14385:2004	N/R	MCERTS UKAS 0934	N/R
Mill 1				N/R	0		BS EN 14385:2004	N/R	MCERTS UKAS 0934	N/R
				N/R	0		BS EN 14385:2004	N/R	MCERTS UKAS 0934	N/R
A2	Lead	1.0 mg/m ³	1.0 mg/m ³	0.05	232	0.023	BS EN 14385:2004	01/10/2015 10:43-11:19	MCERTS UKAS 0934	<0.01
Mill 2				N/R	130		BS EN 14385:2004	N/R	MCERTS UKAS 0934	N/R
				0.06	581		BS EN 14385:2004	01/12/2015 10:00-10:36	MCERTS UKAS 0934	<0.01
A3	Lead	1.0 mg/m ³	1.0 mg/m ³	0.17	453	0.061	BS EN 14385:2004	01/10/2015 11:55-12:35	MCERTS UKAS 0934	+/-0.02
Mill 3				0.13	441		BS EN 14385:2004	03/11/2015 14:30-15:02	MCERTS UKAS 0934	+/-0.02
				N/R	0		BS EN 14385:2004	N/R	MCERTS UKAS 0934	N/R
A63	Lead	1.0 mg/m ³	1.0 mg/m ³	0.07	485	0.066	BS EN 14385:2004	01/10/2015 13:55-14:43	MCERTS UKAS 0934	<0.01
Mill4				0.07	494		BS EN 14385:2004	02/11/2015 15:10-15:58	MCERTS UKAS 0934	<0.01
				0.15	520		BS EN 14385:2004	01/12/2015 11:15-11:55	MCERTS UKAS 0934	+/-0.02

Emission Point	Substance / Parameter	Emission Limit Value (Annual) ^[6]	Spot Limit Values ^[6]	Spot Result ^[1]	Process run time	Quarter Result ^[7]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation /Certification ^[4]	Uncertainty ^[5]
A4	Lead	0.25 mg/m ³	0.25 mg/m ³	0.21	789	0.075	BS EN 14385:2004	06/10/2015 12:25-13:07	MCERTS UKAS 0934	+/-0.03
A6	Lead	0.30 mg/m ³ [6]	1.5 mg/m ³	0.24	1548	0.168	BS EN 14385:2004	05/10/2015 10:39-11:19	MCERTS UKAS 0934	+/-0.03
A8	Lead	0.20 mg/m ³ [6]	1.5 mg/m ³	0.28	1726	0.219	BS EN 14385:2004	05/10/2015 11:44-12:32	MCERTS UKAS 0934	+/-0.04
A9	Lead	0.20 mg/m ³ [6]	0.75 mg/m ³	0.21	1453	0.138	BS EN 14385:2004	02/10/2015 11:30-12:12	MCERTS UKAS 0934	+/-0.03
A10	Lead	0.20 mg/m ³ [6]	1.0 mg/m ³	0.21	1927	0.183	BS EN 14385:2004	02/10/2015 13:10-13:58	MCERTS UKAS 0934	+/-0.03
A11	Lead	0.15mg/m ³ (6)	0.75mg/m ³	0.64	1870	0.542	BS EN 14385:2004	06/10/2015 10:59-11:47	MCERTS UKAS 4279	+/-0.08
A12	Lead	0.15 mg/m ³ [6]	0.75 mg/m ³	0.07	1466	0.046	BS EN 14385:2004	05/10/2015 13:50-14:44	MCERTS UKAS 0934	<0.01
A13	Lead	0.4 mg/m ³ [6]	1.0 mg/m ³	0.15	1900	0.12	BS EN 14385:2004	02/10/2015 10:30-11:10	MCERTS UKAS 0934	+/-0.02

[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. gas 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 an appropriate uncertainty value.}

[6] The emission limit value is expressed as a maximum individual value and corrected to 273K, 101.3kPa.

[7] To be calculated pro rata according to run time.

Signed
27/01/2016

Paula S. Terrett

...(authorised to sign as representative of the Operator)...

Date...27th January 2016.....

Permit Reference Number: NP3030BJ

Operator: Enersys Ltd

Installation: Enersys Newport

Form Number: A2

Reporting of Emissions to Air for the period from: October 1st 2015 to December 31st 2015

Emissions to Air							
Emission Point	Substance / Parameter	Emission Limit Value (Annual) ^[6]	Quarter 1 Average pro rata emission concentration	Quarter 2 Average pro rata emission concentration	Quarter 3 Average pro rata emission concentration	Quarter 4 Average pro rata emission concentration	Annual Emissions Concentration
A1	Lead	1.0 mg/m ³	0.006	0.022	N/R	N/R	0.014
A2	Lead	1.0 mg/m ³	0.058	0.076	0.064	0.023	0.055
A3	Lead	1.0 mg/m ³	0.096	0.142	0.178	0.061	0.119
A63	Lead	1.0mg/m3	0.034	0.071	0.100	0.066	0.068
A4	Lead	0.25 mg/m ³	0.129	0.010	0.072	0.075	0.072
A6	Lead	0.30 mg/m ³	0.018	0.086	0.069	0.168	0.085
A8	Lead	0.20 mg/m ³	0.020	0.079	0.040	0.219	0.090
A9	Lead	0.20 mg/m ³	0.124	0.073	0.015	0.138	0.088
A10	Lead	0.20 mg/m ³	0.009	0.023	0.052	0.183	0.067
A11	Lead	0.20 mg/m ³	0.009	0.021	0.017	0.542	0.147
A12	Lead	0.15 mg/m ³	0.017	0.291	0.068	0.046	0.106
A13	Lead	0.4 mg/m ³	0.018	0.023	0.043	0.12	0.051

[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. gas 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 an appropriate uncertainty value.}

[6] The emission limit value is expressed as a maximum individual value and corrected to 273K, 101.3kPa.

[7] To be Signed
(authorised to sign as representative of the Operator)

Paula S. Tennett

Date...27th January 2016...

Permit Reference Number: NP3030BJ Operator: Enersys Ltd

Installation: Enersys Newport

Form Number: W1

Reporting of Emissions to Water (other than to Sewer) for the period from: October 1st 2015 to December 31st 2015

Emissions to Water							
Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
W1	Lead and its compounds	2.0mg/l ^[6]	1.900 0.350 0.430 0.140 0.200 0.200 0.089 0.170 0.067 0.330 0.320 0.870	ISO/IEC 17025:2005	7-Oct-15 14-Oct-15 21-Oct-15 28-Oct-15 4-Nov-15 11-Nov-15 18-Nov-15 25-Nov-15 2-Dec-15 9-Dec-15 16-Dec-15 23-Dec-15	DERWENTSIDE ENVIRONMENTAL TESTING SERVICES LTD UKAS 2139	
W1	Flow	Not applicable					

[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. Where the emission limit value is an annual mean, the result is given as the average measured value.

[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. colorimetry.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements, or flow/time proportional samples, the percentage of the process operating time covered by the monitoring 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.

[6] The emission limit values are expressed as a maximum individual value. Limit only applies from 1 July 2006.

Signed
(authorised to sign as representative of the Operator)

Paula S. Tennett

Date.....27th January 2016.....

27/01/2016

Permit Reference Number: NP3030BJ

Operator: Enersys Ltd

Installation: Enersys Newport

Form Number: S1

Reporting of Emissions to Sewer for the period from: October 1st 2015 to December 31st 2015

Emissions to Sewer							
Emission Point	Substance / Parameter	Emission Limit Value	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Accreditation/ Certification ^[4]	Uncertainty ^[5]
S1	Lead and its compounds.	2mg/l ^[6]	1.100 0.370 0.690 0.570 0.580 0.170 0.089 0.900 1.200 0.530 0.680 0.840	ISO/IEC 17025:2005	7-Oct-15 14-Oct-15 21-Oct-15 28-Oct-15 4-Nov-15 11-Nov-15 18-Nov-15 25-Nov-15 2-Dec-15 9-Dec-15 16-Dec-15 23-Dec-15	DERWENTSIDE ENVIRONMENTAL TESTING SERVICES LTD UKAS 2139	
S1	pH	6-11 ^[7]	7.00 7.10 7.10 7.10 7.20 6.70 7.20 7.70 7.30 6.80 5.50 7.20	ISO/IEC 17025:2005	7-Oct-15 14-Oct-15 21-Oct-15 28-Oct-15 4-Nov-15 11-Nov-15 18-Nov-15 25-Nov-15 2-Dec-15 9-Dec-15 16-Dec-15 23-Dec-15	DERWENTSIDE ENVIRONMENTAL TESTING SERVICES LTD UKAS 2139	
S1	Sulphates	Not applicable	220 210 240 210 270 170 190 340 310 230	ISO/IEC 17025:2005	7-Oct-15 14-Oct-15 21-Oct-15 28-Oct-15 4-Nov-15 11-Nov-15 18-Nov-15 25-Nov-15 2-Dec-15 9-Dec-15	DERWENTSIDE ENVIRONMENTAL TESTING SERVICES LTD UKAS 2139	

			480 650		16-Dec-15 23-Dec-15		
S1	Suspended solids	Not applicable	22 66 50 55 22 22 22 7 31 16 51 54	ISO/IEC 17025:2005	7-Oct-15 14-Oct-15 21-Oct-15 28-Oct-15 4-Nov-15 11-Nov-15 18-Nov-15 25-Nov-15 2-Dec-15 9-Dec-15 16-Dec-15 23-Dec-15	DERWENTSIDE ENVIRONMENTAL TESTING SERVICES LTD UKAS 2139	
S1	Flow	150,000l/day * 92days =13,800,000 litres	674110 LITRES OVER THE QUARTER				

[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. Where the emission limit value is an annual mean, the result is given as the average measured value.

[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. colorimetry.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements, or flow/time proportional samples, the percentage of the process operating time covered by the monitoring 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.

[6] The emission limit values are expressed as a maximum individual value.

[7] The emission limit values for pH are expressed as minimum and maximum individual values.

Signed 
(authorised to sign as representative of the Operator)

Date.....27th January 2016.....

Permit Reference Number: NP3030BJ

Operator: Enersys Ltd

Installation: Enersys Newport

Form Number: R1

Reporting of Waste Disposal and Recovery for the year2015.....

Waste Disposal & Recovery			
Waste Description	Disposal		Recovery
	Route	Tonnes	Tonnes
1) Hazardous Wastes			
Lead Waste Streams	Smelting		2755
Mixed Hazardous Load	D15 Storage pending D	24.5	
Oil and Water	D09 Physio-chemical treatment	82.3	
Acid	D09 Physio-chemical treatment	95.0	
Lead Contaminated PPE	R13 Storage pending R		49.3
Chemical Waste	R03 and R13		7.7
Total hazardous waste			3014
2) Non-Hazardous Wastes			
Plastic Cases	Recycled		25.4
General Waste	Energy from waste		32.7
Cardboard	Recycled		72.1
Wood	Recycled		30.9
Metal	Recycled		43.2
Separator Paper	Recycled		48.3
Polythene	Recycled		13.6
Total non-hazardous waste			266.2
TOTAL WASTE			3280.2

[illegible]

Operator's comments :
PRODUCTION OUTPUT IS 20,955 TONNES

Signed
(authorised to sign as representative of the Operator)

Date.....27th January 2016.....

Permit Reference Number: NP3030BJ

Operator: Enersys Ltd

Installation: Enersys Newport

Form Number: WU1

Reporting of Water Usage for the year2015.....

Water Usage		
Water Source	Usage (m ³)	Specific Usage (m ³ /t)
Mains water	37463	1.79m ³ /t
TOTAL WATER USAGE	37635	

Trends in Water Usage			
Year	Parameter		
	Named Water source	Total Water usage	Water per unit output
2011		62759	3.5 m ³ /t
2012		68640	3.4 m ³ /t
2013		60532	2.86 m ³ /t
2014		47225	1.93 m ³ /t
2015		37463	1.80m ³ /t

Operator's comments :

PRODUCTION OUTPUT IS 20,955 TONNES

Signed
(authorised to sign as representative of the Operator)

Paula S. Terrett

Date.....27th January 2016.....

Permit Reference Number: NP3030BJ

Operator: Enersys Ltd

Installation: Enersys Newport

Form Number: E1

Reporting of Energy Usage for the year2015.....

Energy Usage			
Energy Source	Energy Usage		CO ₂ Produced (tonnes)
	Quantity	Primary Energy (MWh)	
Electricity *	26328.8MWh	63189.1MWh	10469.5
Natural Gas	14793.8MWh	14793.8MWh	2812.5
Gas Oil	0 tonnes		
Heavy Fuel Oil	0 tonnes		
TOTAL	41122.6MWh	77982.9MWh	13282Tonnes

* Conversion factor for delivered electricity to primary energy = 2.4

Trends in Energy Usage			
Year	Parameter		
	Primary Energy usage	CO ₂ produced	CO ₂ per unit output
2011	79334.97	13533	0.7544T/T
2012	87673.58	14037.67	0.7039T/T
2013	77719.43	13258.59	0.6254T/T
2014	84830.98	14441.93	0.5891T/T
2015	77982.9	13282.0	0.6338T/T

Operator's comments :

ELECTRICITY CO2 PRODUCED = 63189.1 /6.02 = 10496.5

GAS CO2 PRODUCED = 14793.8/5.26 = 2812.5

PRODUCTION TONNAGE = 20,955 TONNES

Signed *Paula S. Terrett*
 (authorised to sign as representative of the Operator)

Date.....27th January 2016.....

Permit Reference Number: NP3030BJ

Operator: Enersys Ltd

Installation: Enersys Newport

Form Number: P11

Reporting of Performance Indicators for the year2015.....

Annual Production/Treatment	
Production of Battery Products	20,955
	Tonnes

Environmental Performance Indicators

Performance Indicators			Trends in Environmental Performance					
Parameter	Annual Average	Units						
Energy Use	1962	kWh/tonne	Year	Parameter				
Potable water use	1.80	m3/tonne		Potable water use	Energy Use	Waste Disposed	Waste recovered	Mass lead released
Waste disposed		T/tonne	2011	3.5 m3/t	2208 kWh/T	205.04 Tonnes	4553.77 Tonnes	161.4Kg
Waste recovered		T/tonne	2012	3.4 m3/t	2189 kWh/T	179.95 Tonnes	4907.54 Tonnes	228.6Kg
Mass lead released	7.2*10-6	T/tonne	2013	2.86m3/t	1926 kWh/T	118.72Tonnes	5046.69 Tonnes	176.23Kg
			2014	1.93m3/t	1789 kWh/T	37.85Tonnes	3707.63 Tonnes	93.39Kg
			2015	1.80 m3/t	1962kWh/T	202Tonnes	3078.20Tonnes	151.08Kg
Operator's comments :								

Signed
(authorised to sign as representative of the Operator)

Paula S. Terrett

Date.....27th January 2016.....