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05 FEB 2014

Permit Reference Number: VP3030BX

Operator: Befesa Salt Slags Ltd

Installation: Whitchurch Salt Slags

Form Number: R1

Reporting of Waste Disposal and Recovery for the year .....2013.....

Waste Description	Disposal		Recovered / Recycled
	Route	Tonnes	Tonnes
Wastes:			
Hazardous waste	Recovery	0.808	0.808
Non-Hazardous waste	Landfill	59.200	
Non Hazardous waste (Oxides)	Landfill	37587.390	
Non-Hazardous waste (paper)	Recycle	21.000	21.000
Sewerage Waste	Treatment disposal	6.000	
TOTAL WASTE		37674.398	21.808

Trends in Waste Disposal and Recovery			
Year	Parameter		
	Total Waste Disposal	Hazardous Waste Disposal	Total Waste Recovered / Recycled
2007	25,601	2.2 tonnes	937.2 tonnes
2008	16,976	1.65 tonnes	3,793 tonnes
2009	456	1 ton	1 ton
2010	96.61	1.23 tonnes	1.83 tonnes
2011	108.97	6.91 tonnes	12.0 tonnes
2012	56970.175	3.062 tonnes	24.328 tonnes
2013	37674.398	0.808	21.808

Operator's comments :
Haz waste = oils and lubricants disposed for recycling and WEE waste materials
Non Haz waste Landfill: general site waste.
Non Haz (oxide disposal)
Paper card recycling estimated:
Sewerage waste: estimated

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

Date....30/1/14.....

MONITORING RETURNS N. WALES

	INITIALS	DATE
CHECKED Vs AUTHORISATION	AS	13/2/14
TRACKING	JB	10.2.14
OK FOR PUBLIC REGISTER	AS	13/2/14
	JB	EDRM

Permit Reference Number: VP3030BX

Operator: Befesa Salt Slags Ltd

Installation: Whitchurch Salt Slags

Form Number: WU1

Reporting of Water Usage for the year .....2013.....

Water Source	Usage (m^3/year)	Specific Usage (m^3/year)
Mains water	46679	Process
Surface water	38133	Process
TOTAL WATER USAGE	84812	Process

Trends in Water Usage			
Year	Parameter		
	Total Water usage (m^3/year)	Specific Usage (m^3/year)/tonne production Aluminium Oxide	
2009	26591	0.73	
2010	40906	1.09	
2011	77919	1.18	
2012	79858	1.16	
2013	84812	1.29	

Operator's comments :
Water usage would be better reported per ton of materials processed as this is a constant dry weight figure when reporting against aluminium oxide depends on the actual moisture of the material produced and this varies and so distorts reporting of water usage figures.

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

Date.....30/1/14.....

MONITORING RETURNS N. WALES
INITIALS DATE
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Permit Reference Number: VP3030BX

Operator: Befesa Salt Slags Ltd

Installation: Whitchurch Salt Slags

Form Number: PI1

Reporting of Performance Indicators for the year .....2013.....

Annual Production/Treatment	
Annual Production of Aluminium oxide.	65401.957 Tonnes
Annual amount of stored salt slag processed.	51119.740 Tonnes
Amount of Spent Pot Liner processed.	12009.920 Cut 1 Tonnes
	4449.660 Cut 2 Tonnes

Environmental Performance Indicators

Parameter	Quantity	Units
Total Waste produced per tonne of production (1)	0.5760	tonnes
Total Energy usage (MWh) per tonne of production (1)	0.28	MwH
Total water use per tonne of production (1)	1.29	m3

Trends			
Year	Parameter		
	Total Waste produced per tonne of production	Total Energy usage (MWh) per tonne of production	Total water use per tonne of production
2011	0.0016	0.11	1.18 m3
2012	0.8280	0.10	1.16 m3
2013	0.576	0.28	1.29 m3

Note (1): of Aluminium Oxide.

Operator's comments :
Energy, Waste, Water usage would be better reported over tonnes of material processed as this is a constant dry weight figure and would be a more accurate reflection of energy used.
Total Energy usage per tonne of production is based on Electricity MWH received.

Signed .....
(Authorised to sign as representative of the Operator)

Date....30/1/14.....

Permit Reference Number: VP3030BX

Operator: Befesa Salt Slags Ltd

MONITORING RETURNS N. WALES

	INITIALS	DATE
CHECKED Vs AUTHORISATION	AS	13/2/14
TRACKING	JB	10-2-14
OK FOR PUBLIC REGISTER	AS	13/2/14

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Installation: Whitchurch Salt Slags

Form Number: E1

Reporting of Energy Usage for the year .....2013.....

Energy Source	Energy Usage		CO_2 Produced (tonnes)
	Quantity	Primary Energy (MWh)	
Electricity (MWh)*	7045.224	18317.634	3663.526
Kerosene (Litres)	1019430	10500.13	2742.266
Propane (Litres)	2778680	20532.23	4397.749
TOTAL	3805155.224	49349.994	10803.541

* Conversion factor for delivered electricity to primary energy = 2.6

Trends in Energy Use

Year	Primary Energy usage(MWh)	CO_2 Produced (Tonnes)
2007	48,993.11	14,929
2008	56,008.86	13,539
2009	44,002.79	10,615
2010	47,779.97	11,512
2011	48,506.93	11,510.17
2012	49,690.57	11,649.384
2013	49,349.994	10,803.541

Operator's comments : converted to propane use second half of 2013
Kerosene converted from ltrs to MJ then to MWH
Propane converted from ltrs to MJ then to MWH
CO2 Electricity = Kwh * 0.52/1000 = tonnes
CO2 Kerosene = ltrs * 2.69 / 1000 = tonnes
CO2 Propane = KWH * 0.2149 = tonnes

Signed .....

(Authorised to sign as representative of the Operator)

Date 30/1/14

MONITORING RETURNS N. WALES

	INITIALS	DATE
CHECKED Vs AUTHORISATION	AS	13/2/14
TRACKING	JG	10.2.14
OK FOR PUBLIC REGISTER	AS	13/2/14