

Permit Reference Number: VP3030BX

Operator: Befesa Salt Slags Ltd

Installation: Whitchurch Befesa Salt Slags

Form Number: R1

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

Waste Description	Disposal		Recovered / Recycled Tonnes	Trends in Waste Disposal and Recovery			
	Route	Tonnes		Year	Parameter Total Waste Disposal	Hazardous Waste Disposal	Total Waste Recovered / Recycled
Wastes:							
Hazardous waste (oils)	Recovery	4	4	2007	25,601	2.2 tonnes	937.2 tonnes
Non-Hazardous waste	Landfill	112.86		2008	16,976	1.65 tonnes	3,793 tonnes
Non- Hazardous waste (paper)	Recycle	46.75	46.75	2009	456	1 ton	1 ton
Non-Hazardous waste (metal)	Recycle	878.99	878.99	2010	96.61	1.23 tonnes	1.83 tonnes
Sewerage Waste	Treatment disposal	18.6		2011	108.97	6.91 tonnes	12.0 tonnes
				2012	56970.175	3.062 tonnes	24.328 tonnes
				2013	37674.398	0.808 tonnes	21.808 tonnes
				2014	8943.34	1.75 tonnes	26.2 tonnes
TOTAL WASTE		1061.20		2015	1061.20	4	929.74

Operator's comments :

Non Haz waste landfill = general site waste.
No oxide disposal for 2015.

Signed  (authorised to sign as representative of the Operator)

Date.....07/03/16.....

Permit Reference Number: VP3030BX

Operator: Befesa Salt Slags Ltd

Installation: Whitchurch Befesa Salt Slags

Form Number: WU1

30 June 2006

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

Water Source	Usage (m ³ /year)	Specific Usage (m ³ /year)
Mains water	40680	Process
Storm water	35802	Process
TOTAL WATER USAGE	76482	Process

Trends in Water Usage		
Year	Parameter	
	Total	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
2014	72143	1.06
2015	76482	1.23

Operator's comments:
Higher water used than previous year due to extra washing to lower the level of chloride (sodium and potassium chloride) lost to oxide, so that more salt (sodium and potassium chloride) can be recovered.

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

Permit Reference Number: VP3030BX

Operator: Befesa Salt Slags Ltd

Installation: Whitchurch Befesa Salt Slags

Form Number: P11

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

<i>Annual Production/Treatment</i>	
Annual Production of Aluminium oxide.	62041 tonnes
Annual amount of stored salt slag processed.	54971 tonnes
Amount of Spent Pot Liner processed.	3803 Cut 1 tonnes
	2842 Cut 2 tonnes

Environmental Performance Indicators

Parameter	Quantity	Units
Total Waste produced per tonne of production ⁽¹⁾		tonnes
Total Electrical Energy usage (MWh) per tonne of production ⁽¹⁾	6846	MWH
Total LPG / Oil Energy usage ⁽¹⁾	9254	MWH
Total water use per tonne of production ⁽¹⁾	1.23	m3

Note (1): of Aluminium Oxide.

Trends			
Year	Parameter	Total Waste produced per tonne of production	Total Energy usage (MWh) per tonne of production
2011	0.0016	0.11	1.18 m3
2012	0.8280	0.10	1.16 m3
2013	0.576	0.58	1.29 m3
2014	0.132	0.56	1.06 m3
2015	0.0171	0.11	1.23 m3

Operator's comments :

For completeness, in the energy used I have included total LPG / Oil but this is only used for the production of the salt. To be consistent with the previous reporting, only the electricity is used for the total energy per tonne of product, since the primary product produced for reporting is oxide.

Signed

Date...07/03/16.....

30 June 2006

(Authorised to sign as representative of the Operator)
Permit Reference Number: VP3030BX

Operator: Befesa Salt Slags Ltd

Installation: Whitchurch Befesa Salt Slags

Form Number: E1

Reporting of Energy Usage for the year2015.....Trends in Energy Use

Energy Source	Energy Usage		CO ₂ Produced (tonnes)
	Quantity	Primary Energy (MWh)	
Electricity (MWh) *	6,846	17,799	3,559,920
Oil (Litres)	982,736	10,300	2,770,700
LPG (Litres)	2,459,477	17,486	4,224,057
TOTAL	3,449,059	45,585	10,554,677

* Conversion factor for delivered electricity to primary energy = 2.6

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	10,803.541
2014	49,488	10,579.158
2015	45,585	10,554.677

Operator's comments

Oil is for hire boiler whilst main boiler under repair – normally boiler runs on LPG

CO2 conversion figures used:

Electricity = MWh x (1000 (conversion to MWh)x 0.52/1000 (conversion from Kgs)) (tonnes)
Oil = MWh x (1000 (conversion to MWh) x 0.269/1000 (conversion from Kgs)) (tonnes)
LPG = MWH x (1000 (conversion to MWH) x 0.2149/1000 (conversion from Kgs)) (tonnes)

Signed
(Authorised to sign as representative of the Operator)

Date.....

30 June 2006