

Reporting of Energy Usage for year 2015

Permit Number: LP3731SU

Operator: BAE Systems Land Systems
(Munitions& Ordnance) Ltd

Installation: Glascoed Munitions Factory

Form Number: Energy 1
Form Issue Date: 03/11/2006

Energy Source	Energy Usage Quantity	Primary Energy	Specific Usage
Electricity (1)	MWh	674	0.0118 MWh/tonne of steam produced (42.64MJ/tonne of steam)
Natural Gas (2)	MJ	167,406,815	2938 MJ/tonne of steam produced
Gas Oil (boilers) (3)	MJ	604,752	10.61 MJ/tonne of steam produced
Diesel usage(Back-up generator)(4)	MJ	47,747	0.84 MJ/tonne of steam produced
TOTAL	MJ	170,486,960	2992 MJ/tonne of steam produced

Operator's comments

- Note 1 Conversion factor for delivered electricity to primary energy (x2.4)
- Note 2 4,115,541m³ of natural gas consumed, (conversion factors from Department of Energy and Climate Change - Digest of UK Energy Statistics 2011
Natural gas = 11.3kWh/m³ and 1MJ = (1kWh/0.2778))
- Note 3 15,427 litres of gas oil consumed in boilers, diesel/gas oil = 10.89kWh/litre (source: Department of Energy and Climate Change - Digest of UK
Energy Statistics 2011) and 1MJ = (1kWh/0.2778)
- Note 4 1,218 litres of gas oil (generator) consumed, diesel/gas oil = 10.89kWh/litre (source: Department of Energy and Climate Change - Digest of UK
Energy Statistics 2011) and 1MJ = (1kWh/0.2778)

Signed



(authorised to sign as representative of Operator)

Date 28.01.2016

Reporting of Water Usage for year 2015

Permit Number: LP3731SU

Operator: BAE Systems Land Systems
(Munitions& Ordnance) Ltd

Installation: Glascoed Munitions Factory

Form Number: Water Usage1
Form Issue Date: 03/11/2006

Water Source	Usage m ³ /year	Specific Usage
River Abstraction	588,436	
Boiler House Use	28,933	0.51 m ³ /tonne of steam produced

Operator's comments

28,933 m³ of water was used in the Boiler house representing 5 % of the total water abstracted given above

Signed



(authorised to sign as representative of Operator)

Date 28.1.16

Releases to Air

PPC Reporting

Operational Summary for the year to December 2015

Operator: BAE Systems Land Systems
(Munitions & Ordnance)Ltd

Site Location: Glascoed, Usk

Form Number: Air - 8 (Discontinuous Monitoring)
Form Issue Date: 03/11/2006

Permit/Variation number: LP3731SU

Release point: A1 & A2

Measurement frequency: 12monthly

Date of sampling : A1: 02/09/15-03/09/15
A2: 02/09/15-03/09/15

Release Point	Flue	ELV	Measured	Sampling	Unit load	Fuel usage
		mg/m ³	value	method	or	during
			mg/m ³		%MCR	sampling
A1	Boiler 1	140	88.23	BS EN 14792:2005	50%	Natural Gas
	Boiler 2 Left	140	84.98	BS EN 14792:2005	50%	Natural Gas
	Boiler 2 Right	140	86.08	BS EN 14792:2005	50%	Natural Gas
A2	Boiler 3	140	86.11	BS EN 14792:2005	50%	Natural Gas
	Boiler 4 Left	140	NA	BS EN 14792:2005	50%	Natural Gas
	Boiler 4 Right	140	NA	BS EN 14792:2005	50%	Natural Gas

Note 1: Boiler 4 was subject to maintenance at the time of testing. It has not been commissioned as of yet.

Signed on behalf of the Operator



Date 28.1.16

Reporting of other performance indicators for the period 01/01/2015 to 31/12/2015

Permit Number:	LP3731SU	Operator:	BAE Systems Land systems (Munitions& Ordnance) Ltd
Installation:	Glascoed Munitions Factory	Form Number:	Performance 1
		Form Issue Date:	03/11/2006

Parameter	Units
Steam Generated	56,980 tonnes per annum
Annual waste production	1.0136 tonnes per annum

Environmental Performance Indicators	
Electricity	0.01 MWh/tonne of steam produced (42.64MJ/tonne of steam)
Natural Gas	2938 MJ/tonne of steam produced
Gas Oil (boilers)	10.61 MJ/tonne of steam produced
Diesel usage(Back-up generator)	0.84 MJ/tonne of steam produced
Total Energy	2992 MJ/tonne of steam produced
Waste Production	0.0178 kg/tonne of steam produced

Operator's comments

Signed



(authorised to sign as representative of Operator)

Date 28.1.16

Reporting of Waste Disposal for year 2015

Permit Number: LP3731SU

Operator: BAE Systems Land Systems
(Munitions& Ordnance) Ltd

Installation: Glascoed Munitions Factory

Form Number: Waste 1
Form Issue Date: 03/11/2006

Waste Description	Units	Quantity Disposed	Disposal Route
Refractory Waste	kg	1,000	Landfill
Boiler Soot	kg	2.3	Landfill
Boiler Sludge	kg	11.3	Landfill
TOTAL	kg	1,013.6	

Operator's comments

Signed



(authorised to sign as representative of Operator)

Date 28.1.16

Reporting of Waste Disposal for Quarter 1 (Jan/Feb/Mar 2015)

Permit Number: LP3731SU

Operator: BAE Systems Land Systems
(Munitions& Ordnance) Ltd

Installation: Glascoed Munitions Factory

Form Number: Waste Q1
Form Issue Date: 03/11/2006

Waste Description	Quantity Disposed (kg)	Disposal Route
Refractory Waste	0	n/a
Boiler Soot	0.5	Landfill
Boiler Sludge	0.2	Landfill
TOTAL	0.7	

Operator's comments

Signed 

(authorised to sign as representative of Operator)

Date 28.1.16

Reporting of Waste Disposal for Quarter 2 (Apr/May/Jun 2015)

Permit Number: LP3731SU

Operator: BAE Systems Land Systems
(Munitions& Ordnance) Ltd

Installation: Glascoed Munitions Factory

Form Number: Waste Q2
Form Issue Date: 03/11/2006

Waste Description	Quantity Disposed (kg)	Disposal Route
Refractory Waste	1,000	n/a
Boiler Soot	0.3	n/a
Boiler Sludge/Scale	3.0	n/a
TOTAL	1,003.3	

Operator's comments

Signed 

(authorised to sign as representative of Operator)

Date 28.1.16

Reporting of Waste Disposal for Quarter 3 (Jul/Aug/Sept 2015)

Permit Number: LP3731SU

Operator: BAE Systems Land Systems
(Munitions& Ordnance) Ltd

Installation: Glascoed Munitions Factory

Form Number: Waste Q3
Form Issue Date: 03/11/2006

Waste Description	Quantity Disposed (kg)	Disposal Route
Refractory Waste	0	N/A
Boiler Soot	0.0	landfill
Boiler Sludge	0.0	landfill
TOTAL	0.0	

Operator's comments

Signed



(authorised to sign as representative of Operator)

Date 28.1.16

Reporting of Waste Disposal for Quarter 4 (Oct/Nov/Dec 2015)

Permit Number: LP3731SU

Operator: BAE Systems Land Systems
(Munitions& Ordnance) Ltd

Installation: Glascoed Munitions Factory

Form Number: Waste Q4
Form Issue Date: 03/11/2006

Waste Description	Quantity Disposed (kg)	Disposal Route
Refractory Waste	0	Landfill
Boiler Soot	1.5	Landfill
Boiler Sludge	8.1	Landfill
TOTAL	9.6	

Operator's comments

Signed



(authorised to sign as representative of Operator)

Date 28.1.16