

Reporting of Energy Usage for year 2017

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	848	0.0215 MWh/tonne of steam produced (29.83MJ/tonne of steam)
Natural Gas (2)	MJ	167,513,429	4257 MJ/tonne of steam produced
Gas Oil (boilers) (3)	MJ	600,557	15.26 MJ/tonne of steam produced
Diesel usage(Back-up generator)(4)	MJ	54,254	1.38 MJ/tonne of steam produced
TOTAL	MJ	171,219,644	4351 MJ/tonne of steam produced

Operator's comments

- Note 1 Conversion factor for delivered electricity to primary energy (x2.6)
- Note 2 4118162m³ 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 15,320 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 1,384 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 09.02.2018

Reporting of Water Usage for year 2017

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	747,162	
Boiler House Use	33,967	0.86 m ³ /tonne of steam produced

Operator's comments

33,967 m³ of water was used in the Boiler house representing 5 % of the total water abstracted given above

Signed



Date 09.02.2018

(authorised to sign as representative of Operator)

Releases to Air

PPC Reporting

Operational Summary for the year to December 2017

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: 8-9/11/2017
A2: 8-9/11/2017

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	95.85	BS EN 14792:2017	90-100%	Natural Gas
	Boiler 2 Left	140	101.04	BS EN 14792:2017	90-100%	Natural Gas
	Boiler 2 Right	140	98.92	BS EN 14792:2017	90-100%	Natural Gas
A2	Boiler 3	140	98.31	BS EN 14792:2017	90-100%	Natural Gas
	Boiler 4 Left	140	90.15	BS EN 14792:2017	90-100%	Natural Gas
	Boiler 4 Right	140	91.42	BS EN 14792:2017	90-100%	Natural Gas

Signed on behalf of the Operator

Date 09.02.2018



Reporting of Waste Disposal for year 2017

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	1,250	Landfill
Boiler Soot	kg	1.4	Landfill
Boiler Sludge	kg	5.3	Landfill
TOTAL	kg	1,256.7	

Operator's comments

Signed



(authorised to sign as representative of Operator)

Date 09.02.2018

Reporting of Waste Disposal for Quarter 1 (Jan/Feb/Mar 2017)

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	1,250	n/a
Boiler Soot	0.9	Landfill
Boiler Sludge	2.3	Landfill
TOTAL	1,253.2	

Operator's comments

Signed



(authorised to sign as representative of Operator)

Date 09.02.2018

Reporting of Waste Disposal for Quarter 2 (Apr/May/Jun 2017)

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	0	n/a
Boiler Soot	0.0	n/a
Boiler Sludge/Scale	0.0	n/a
TOTAL	0.0	

Operator's comments

Signed



(authorised to sign as representative of Operator)

Date 09.02.2018

Reporting of Waste Disposal for Quarter 3 (Jul/Aug/Sept 2017)

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	0.5	N/A
Boiler Sludge	0.4	N/A
TOTAL	0.9	

Operator's comments

Signed



(authorised to sign as representative of Operator)

Date 09.02.2018

Reporting of Waste Disposal for Quarter 4 (Oct/Nov/Dec 2017)

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	N/A
Boiler Soot	0.0	Landfill
Boiler Sludge	2.6	Landfill
TOTAL	2.6	

Operator's comments

Signed



(authorised to sign as representative of Operator)

Date 09.02.2018