

Reporting of Energy Usage for year 2019

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	711	0.0180 MWh/tonne of steam produced (29.83MJ/tonne of steam)
Natural Gas (2)	MJ	172,617,018	4364 MJ/tonne of steam produced
Gas Oil (boilers) (3)	MJ	413,177	10.45 MJ/tonne of steam produced
Diesel usage(Back-up generator)(4)	MJ	35,790	0.90 MJ/tonne of steam produced
TOTAL	MJ	173,066,696	4375 MJ/tonne of steam produced

Operator's comments

- Note 1 Conversion factor for delivered electricity to primary energy (x2.4)
- Note 2 4,243,629m³ 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 10,540 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 4 913 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 27.01.2020

Reporting of Water Usage for year 2019

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	711,894	
Boiler House Use	26,654	0.67 m ³ /tonne of steam produced

Operator's comments

26,654 m³ of water was used in the Boiler house representing 4 % of the total water abstracted given above

Signed



Date 27.01.2020

(authorised to sign as representative of Operator)

Releases to Air

PPC Reporting

Operational Summary for the year to December 2019

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: 13/11/2019
A2: 14/11/2019

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	93.2	BS EN 14792:2017	90-100%	Natural Gas
	Boiler 2 Left	140	91.57	BS EN 14792:2017	90-100%	Natural Gas
	Boiler 2 Right	140	90.64	BS EN 14792:2017	90-100%	Natural Gas
A2	Boiler 3	140	94.72	BS EN 14792:2017	90-100%	Natural Gas
	Boiler 4 Left	140	101.47	BS EN 14792:2017	90-100%	Natural Gas
	Boiler 4 Right	140	95.04	BS EN 14792:2017	90-100%	Natural Gas

Signed on behalf of the Operator



Date 27.01.2020

Reporting of other performance indicators for the period 01/01/2019 to 31/12/2019

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	39,554 tonnes per annum
Annual waste production	1.012 tonnes per annum

Environmental Performance Indicators	
Electricity	0.0180 MWh/tonne of steam produced (29.93MJ/tonne of steam)
Natural Gas	4364 MJ/tonne of steam produced
Gas Oil (boilers)	10.45 MJ/tonne of steam produced
Diesel usage(Back-up generator)	0.90 MJ/tonne of steam produced
Total Energy	4375 MJ/tonne of steam produced
Waste Production	0.0256 kg/tonne of steam produced

Operator's comments

Signed 

(authorised to sign as representative of Operator)

Date 27.01.2020

Reporting of Waste Disposal for year 2019

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	1,000.0	Landfill
Boiler Soot	kg	0.0	Landfill
Boiler Sludge	kg	12.4	Landfill
TOTAL	kg	1,012.4	

Operator's comments

Signed



(authorised to sign as representative of Operator)

Date 27.01.2020

Reporting of Waste Disposal for Quarter 1 (Jan/Feb/Mar 2019)

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	0.0	n/a
Boiler Soot	0.0	n/a
Boiler Sludge	0.0	Landfill
TOTAL	0.0	

Operator's comments

Signed



(authorised to sign as representative of Operator)

Date 27.01.2020

Reporting of Waste Disposal for Quarter 2 (Apr/May/Jun 2019)

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

Operator's comments

Signed



(authorised to sign as representative of Operator)

Date 27.01.2020

Reporting of Waste Disposal for Quarter 3 (Jul/Aug/Sept 2019)

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	1,000.0	n/a
Boiler Soot	0.0	n/a
Boiler Sludge	12.4	n/a
TOTAL	1,012.4	

Operator's comments

Signed



(authorised to sign as representative of Operator)

Date 27.01.2020

Reporting of Waste Disposal for Quarter 4 (Oct/Nov/Dec 2019)

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	0.0	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 27.01.2020