

## Reporting of Energy Usage for year 2023

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	717.92	0.0160 MWh/tonne of steam produced (29.83MJ/tonne of steam)
Natural Gas (2)	MJ	192,716,171	4285 MJ/tonne of steam produced
Gas Oil (boilers) (3)	MJ	446,890	9.94 MJ/tonne of steam produced
Diesel usage(Back-up generator)(4)	MJ	38,550	0.86 MJ/tonne of steam produced
<b>TOTAL</b>	<b>MJ</b>	<b>193,202,329</b>	<b>4296 MJ/tonne of steam produced</b>

### Operator's comments

- Note 1 Conversion factor for delivered electricity to primary energy (x2.4)
- Note 2 4,737,748m<sup>3</sup> of natural gas consumed, (conversion factors from Department of Energy and Climate Change - Digest of UK Energy Statistics 2011 Natural gas = 11.3kWh/m<sup>3</sup> and 1MJ = (1kWh/0.2778)).
- Note 3 11,400 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 4 983.4 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

  
BAE Systems

(authorised to sign as representative of Operator)

Date 21/03/2024

### Reporting of Water Usage for year 2023

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 <sup>3</sup> /year	Specific Usage
River Abstraction	606,289	
Boiler House Use	34,776	0.77 m <sup>3</sup> /tonne of steam produced

#### Operator's comments

34,776 m<sup>3</sup> of water was used in the Boiler house representing 6 % of the total water abstracted given above

Signed

  
BAE Systems

Date 21/03/2024

(authorised to sign as representative of Operator)

## Releases to Air

### PPC Reporting

#### Operational Summary for the year January to December 2023

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 Boiler 1: 16/11/2023  
A1 Boiler 2 Left: 16/11/2023  
A1 Boiler 2 Right: 16/11/2023  
A2 Boiler 4 Left: 16/11/2023  
A2 Boiler 4 Right: 16/11/2023

Release Point	Flue	ELV	Measured	Sampling	Unit load	Fuel usage
		mg/m <sup>3</sup>	value	method	or	during
			mg/m <sup>3</sup>		%MCR	sampling
A1	Boiler 1	140	95.59	BS EN 14792:2017	90-100%	Natural Gas
	Boiler 2 Left	140	96.03	BS EN 14792:2017	90-100%	Natural Gas
	Boiler 2 Right	140	99.75	BS EN 14792:2017	90-100%	Natural Gas
A2	Boiler 3	140	*	*	*	*
	Boiler 4 Left	140	87.60	BS EN 14792:2017	90-100%	Natural Gas
	Boiler 4 Right	140	89.83	BS EN 14792:2017	90-100%	Natural Gas

Notes: \* denotes that the process was not operational so sampling could not be undertaken.

Signed on behalf of the Operator

  
 BAE Systems

Date 21/03/2024

### Reporting of other performance indicators for the period 01/01/2023 to 31/12/2023

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	<b>44,971</b> tonnes per annum
Annual waste production	<b>0.006</b> tonnes per annum

Environmental Performance Indicators	
Electricity	<b>0.0160</b> MWh/tonne of steam produced (29.93MJ/tonne of steam)
Natural Gas	<b>4285</b> MJ/tonne of steam produced
Gas Oil (boilers)	<b>9.94</b> MJ/tonne of steam produced
Diesel usage(Back-up generator)	<b>0.86</b> MJ/tonne of steam produced
Total Energy	<b>4296</b> MJ/tonne of steam produced
Waste Production	<b>0.0001</b> kg/tonne of steam produced

<b>Operator's comments</b>
----------------------------

Signed [Redacted Signature]  
BAE Systems

(authorised to sign as representative of Operator)

Date 21/03/2024

## Reporting of Waste Disposal for year 2023

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	0.0	Landfill
Boiler Soot	kg	0.0	Landfill
Boiler Sludge	kg	5.6	Landfill
<b>TOTAL</b>	<b>kg</b>	<b>5.6</b>	

Operator's comments

Signed   
BAE Systems  
(authorised to sign as representative of Operator)

Date 21/03/2024

## Reporting of Waste Disposal for Quarter 1 (Jan/Feb/Mar 2023)

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	n/a
<b>TOTAL</b>	<b>0.0</b>	

**Operator's comments**

Signed

  
BAE Systems  
(authorised to sign as representative of Operator)

Date 21/03/2024

## Reporting of Waste Disposal for Quarter 2 (Apr/May/Jun 2023)

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	n/a
Boiler Soot	0.0	n/a
Boiler Sludge	0.0	n/a
<b>TOTAL</b>	<b>0.0</b>	

**Operator's comments**

Signed

  
BAE Systems  
(authorised to sign as representative of Operator)

Date 21/03/2024

### Reporting of Waste Disposal for Quarter 3 (Jul/Aug/Sept 2023)

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	0.0	n/a
Boiler Soot	0.0	n/a
Boiler Sludge	5.6	landfill
<b>TOTAL</b>	<b>5.6</b>	

**Operator's comments**

Signed   
BAE Systems  
(authorised to sign as representative of Operator)

Date 21/03/2024

## Reporting of Waste Disposal for Quarter 4 (Oct/Nov/Dec 2023)

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	n/a
Boiler Sludge	0.0	n/a
<b>TOTAL</b>	<b>0.0</b>	

**Operator's comments**

Signed

  
BAE Systems  
(authorised to sign as representative of Operator)

Date 21/03/2024