

Reporting of Energy Usage for year 2016

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	741	0.0186 MWh/tonne of steam produced (42.64MJ/tonne of steam)
Natural Gas (2)	MJ	176,893,161	4442 MJ/tonne of steam produced
Gas Oil (boilers) (3)	MJ	340,460	8.55 MJ/tonne of steam produced
Diesel usage(Back-up generator)(4)	MJ	39,906	1.00 MJ/tonne of steam produced
TOTAL	MJ	179,940,914	4518 MJ/tonne of steam produced

Operator's comments

- Note 1 Conversion factor for delivered electricity to primary energy (x2.6)
- Note 2 4348754m³ 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 8685 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 1,018 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

St Jones

(authorised to sign as representative of Operator)

Date 27.01.2017

Reporting of Water Usage for year 2016

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	620,523	
Boiler House Use	29,529	0.74 m ³ /tonne of steam produced

Operator's comments
 29,529 m³ of water was used in the Boiler house representing 5 % of the total water abstracted given above

Signed

Sl Jones.

Date 27.01.2017

(authorised to sign as representative of Operator)

Reporting of other performance indicators for the period 01/01/2016 to 31/12/2016

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	39,827 tonnes per annum
Annual waste production	0.003 tonnes per annum

Environmental Performance Indicators	
Electricity	0.02 MWh/tonne of steam produced (42.64MJ/tonne of steam)
Natural Gas	4442 MJ/tonne of steam produced
Gas Oil (boilers)	8.55 MJ/tonne of steam produced
Diesel usage(Back-up generator)	1.00 MJ/tonne of steam produced
Total Energy	4518 MJ/tonne of steam produced
Waste Production	0.0001 kg/tonne of steam produced

Operator's comments

Signed

J. Jones

(authorised to sign as representative of Operator)

Date 27.01.2017

Reporting of Waste Disposal for year 2016

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	Landfill
Boiler Soot	kg	0.7	Landfill
Boiler Sludge	kg	2.3	Landfill
TOTAL	kg	3.0	

Operator's comments

Signed

Sk Jones

(authorised to sign as representative of Operator)

Date 27.1.17

Reporting of Waste Disposal for Quarter 1 (Jan/Feb/Mar 2016)

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	0.3	Landfill
Boiler Sludge	2.2	Landfill
TOTAL	2.5	

Operator's comments

Signed

J. Jones.

(authorised to sign as representative of Operator)

Date 27.01.2017

Reporting of Waste Disposal for Quarter 2 (Apr/May/June 2016)

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 Sl Jones

(authorised to sign as representative of Operator)

Date 27.01.2017

Reporting of Waste Disposal for Quarter 3 (Jul/Aug/Sept 2016)

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	N/A
Boiler Sludge	0.0	N/A
TOTAL	0.0	

Operator's comments

Signed

S. Jones.

(authorised to sign as representative of Operator)

Date 27.01.2017

Reporting of Waste Disposal for Quarter 4 (Oct/Nov/Dec 2016)

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	0.4	Landfill
Boiler Sludge	0.1	Landfill
TOTAL	0.5	

Operator's comments

Signed Sl Jones

(authorised to sign as representative of Operator)

Date 27.01.2017