

Permit Number: WP3931SD

Operator: Kennametal UK Ltd

Installation: Newport Ceramics

Form Number: Air1 / 06/08/2007

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Reporting of emissions to air for the period from 01/01/2014 to 31/12/2014

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
A1 [Point A1 on site plan in Schedule 2]	Particulate matter	25mg/m ³ on completion of IC1	Spot sample	124	BS EN 13284:1	9/4/14 13:05-14:05	7
A1 [Point A1 on site plan in Schedule 2]	Ammonia	30mg/m ³	Spot sample	15.46	BS EN 14791	25/11/14 10:12-11:17	1.855
A1 [Point A1 on site plan in Schedule 2]	Total Cyanide	-	Spot sample	2	EPA CMT033	5/3/14 11:05-12:05	0.2
A1 [Point A1 on site plan in Schedule 2]	Oxides of nitrogen	100mg/m ³	Spot sample	73.1	BS EN 14792:2005	25/11/14 11:30-12:30	2.08
A1 [Point A1 on site plan in Schedule 2]	Sulphur dioxide	20mg/m ³	Spot sample	9.6	TGN M21	25/11/14 11:30-12:30	4.64
A1 [Point A1 on site plan in Schedule 2]	Carbon monoxide	200mg/m ³	Spot sample	129	BS EN 15058:2006	5/3/14 09:18-10:18	8
A2 [Point A2 on site plan in schedule 2]	Particulate matter	25mg/m ³	Spot sample	Emission point not in use	BS EN 13284:1	Emission point not in use	Emission point not in use
A3 [Point A3 on site plan in schedule 2]	Particulate matter	5mg/m ³	Spot sample	0.8	BS EN 13284:1	7/4/14 13:25-14:25	0.8
A6 [Point A6 on site plan in Schedule 2]	Particulate matter	25mg/m ³	Spot sample	78	BS EN 13284:1	6/3/14 11:09-12:09	5
A7 [Point A7 on site plan in schedule 2]	Particulate matter	5mg/m ³	Spot sample	4.9	BS EN 13284:1	26/11/14 10:49-11:49	0.52

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
A8 [Point A8 on site plan in schedule 2]	Particulate matter	25mg/m ³	Spot sample	7.5	BS EN 13284:1	9/9/14 15:42-16:45	0.83
A8 [Point A8 on site plan in schedule 2]	Ammonia	30mg/m ³	Spot sample	0.32	BS EN 14791	24/1/14 14:55-15:55	0.039
A8 [Point A8 on site plan in schedule 2]	Total Cyanide	-	Spot sample	0.05	EPA CMT033	24/1/14 13:10-14:15	0.006
A8 [Point A8 on site plan in schedule 2]	Oxides of nitrogen	100mg/m ³	Spot sample	<5	BS EN 14792:2005	8/4/14 11:20-12:20	5
A8 [Point A8 on site plan in schedule 2]	Sulphur dioxide	20mg/m ³	Spot sample	7.91	TGN M21	9/9/14 16:05-17:05	4.67
A8 [Point A8 on site plan in schedule 2]	Carbon monoxide	100mg/m ³	Spot sample	72	BS EN 15058:2006	8/4/14 11:20-12:20	7

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed *Jashan*
 (Authorised to sign as representative of Operator)

Date *21/1/15*

Permit Number: WP3931SD Operator: Kennametal Manufacturing UK Ltd

Installation: Newport Ceramics Form Number: WaterUsage1

Reporting of Water Usage for the year 2014

Water Source	Usage (m ³ /year)	Specific Usage (m ³ /unit output)
Mains water	6464 m ³	32.79 m ³ /tonne of product

Operator's comments :
This figure is significantly greater than recent years due to a fault on a particular piece of equipment that was not identified for several months. Rather than using six monthly water bills to determine usage, water readings are now taken monthly in order to identify usage anomalies earlier.

Signed *J. Ashan*
(authorised to sign as representative of Operator)

Date: *21/1/15*

Permit Number: WP3931SD

Operator:

Kennametal UK Ltd

Installation: Newport Ceramics

Form Number:

Performance1

Reporting of other performance indicators for the period 01/01/2014 to 31/12/2014

Parameter	Units
Water usage 6464/197.1324	m3/tonne product 32.79
Energy usage 8175/197.1324	MWh/tonne product 41.47
Effluent released 5817.6/197.1324	M3/tonne product 29.51

Operator's comments :

Effluent released calculated as 90% of total incoming water (mains)

Signed *Tashan*
(Authorised to sign as representative of Operator)

Date: *21/1/15*

Permit Number: WP3931SD

Operator:

Kennametal UK Ltd

Installation: Newport Ceramics

Form Number:

Energy1

Reporting of Energy Usage for the year 2014

Energy Source	Energy Usage Quantity	Primary Energy (MWh)	Specific Usage (MWh/unit output)
Electricity *	8175 MWh	19620	41.47 MWh/tonne product
Natural Gas	0 tonnes	n/a	n/a
TOTAL	8175 MWh	19620 MWh	41.47 MWh/tonne product

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments :

The specific energy usage has been calculated based on powder production and hot pressing. Although powder production and hot pressing are responsible for the majority of the electricity consumed on site, this is a slight over estimate as some of the electricity used on site is used in the production of other products.

The figures are lower than recent years due to technical changes being made within the furnace processes, which have resulted in less energy being used.

Signed 
(Authorised to sign as representative of Operator)

Date: 21/1/15