

Permit Reference Number: KP3135KV

Operator: The Royal Mint

Installation: The Royal Mint

Form Number: A1

### Reporting of Emissions to Air for the Period from **January 2016 to December 2016**

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [5]
A14	Particulate Matter	50 mg/m <sup>3</sup>	Spot Sample	0.18 mg/m <sup>3</sup>	EN 13284-1	17.01.17 09:50 - 10:50 10:55 - 11:55 12:00 - 13:00	+/- 0.29
A14	Copper and it compounds	5 mg/m <sup>3</sup>	Spot Sample	0.005 mg/m <sup>3</sup>	BS EN 14385	17.01.17 13:15 - 14:15	+/- 0.001
A14	Nickel and it compounds as Ni	1 mg/m <sup>3</sup>	Spot Sample	0.003 mg/m <sup>3</sup>	BS EN 14385	17.01.17 13:15 - 14:15	+/- 0.0003

- [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 range is given.
- [4] The accreditation status of the equipment and / or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.
- [5] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed .....  
(authorised to sign as representative of the Operator)

Date .....26/01/2017.....

Permit Reference Number: **KP3135KV**

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Installation: The Royal Mint

Form Number: E1

### Reporting of Energy Usage for the year **2016**

Energy Source	Energy Usage Quantity ( )	Primary Energy (MWh)	Specific Usage (MWh/tonne)
Electricity *	45,043,100	108,103	5.03
Natural Gas	19,089,784	19,090	0.89
<b>TOTAL</b>	<b>64,132,884</b>	<b>127,153</b>	<b>5.92</b>

\* Conversion factor for delivered electricity to primary energy - **Primary Energy = electrical energy X 2.4 (as per the Resource Efficiency Physical Index)**

Operator's comments:

**Total Saleable Product 2016 = 21,493 Tonnes.**



Signed .....  
(authorised to sign as representative of the Operator)

Martyn Grant

Date 26/01/17

Permit Reference Number: **KP3135KV**

Operator: The Royal Mint Limited

Installation: The Royal Mint


Form Number: Water Usage 1

**Reporting of Water Usage for the year 2016**

Water Source	Usage (m <sup>3</sup> per year)	Specific Usage (m <sup>3</sup> /tonne)
Mains Water	111,063	5.17
River Abstraction	456,861	21.26
<b>TOTAL WATER USAGE</b>	<b>567,924</b>	<b>26.42</b>

Operator's comments:

**Total Saleable Product 2016 = 21,493 Tonnes.**

Signed .....  .....

Martyn Grant

Date 26/01/17

(authorised to sign as representative of the Operator)

Permit Reference Number: **KP3135KV**

Operator: The Royal Mint Limited

Installation: The Royal Mint


Form Number: Performance 1

**Reporting of other performance indicators for the year 2016**

Parameter	Value	Units
Total final product tonnage	21,493	tonnes
CO <sub>2e</sub> / tonne of circulating coin	1105.07 (Consumed Energy) 2423.87 (Primary Energy)	Kg CO <sub>2e</sub> / tonne
Total waste / tonne of circulating coin	0.718	Tonne of waste / tonne

Operator's comments:

**CO<sub>2e</sub> conversion factor obtained from GOV.UK "Greenhouse gas reporting - Conversion factors 2016 Condensed set (for most users)", using dataset year 2016 (UK electricity Scope 2, Version 1.0, expiry 31/06/2017) plus (Transmission and distribution scope 3, Version 1.0, expiry 31/06/2017) Electricity = kWh x (0.41205 + 0.03727) Kg of CO<sub>2e</sub> (Fuels Scope 1, Version 1.0, expiry 31/06/2017) Natural Gas = kWh(Gross CV) x 0.184Kg of CO<sub>2e</sub>.**

Signed  .....

Martyn Grant

Date 26/01/2017

(authorised to sign as representative of the Operator)