

Permit Reference Number: KP3235SS

Operator: IQE (Europe) Limited

Installation: IQE (Europe) Limited, Pascal Close, St. Mellons, Cardiff, CF3 0LW

Form: A1

Reporting of Emissions to Air for period 01/07/2015 to 31/12/2015

Emission Point	Substance / Parameter	Emission Limit Value	Result ⁽¹⁾ (mg.m ⁻³)	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Accreditation / Certification ⁽⁴⁾	Uncertainty ⁽⁵⁾
A3	Arsine ⁽⁶⁾	0.42 mg.m ³	0.046	BS EN 14385	19/10/2015 11:35 – 12:35	MCERTS	± 0.009
A3	Phosphine ⁽⁶⁾	0.42mg.m ³	0.108	BS EN 14385	19/10/2015 11:35 – 12:35	UKAS	± 0.022
A3	Ammonia ⁽⁷⁾	9.0 mg.m ³	8.77	BS EN 14791	19/10/2015 13:32-14:32	MCERTS	± 0.84

- 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 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.
- 6) Total arsenic and phosphorus compounds (expressed as arsenic)
- 7) As analysed concentration

Comment - Permit Condition 4.1.2, total annual raw ammonia usage for 2015 - 0.072 tonnes

06/01/2016

X

Shane Alder
HSE Manager (UK Operations)
Signed by: Shane Alder

* Authorised to sign as a representative of the Operator.

Date of Form: 17/12/2013

Permit Reference Number: KP3235SS

Operator: IQE (Europe) Limited

Installation: IQE (Europe) Limited, Pascal Close, St. Mellons, Cardiff, CF3 0LW

Form: R1

Reporting of Waste Disposal & Recovery for the year **2015**

Hazardous Wastes	Tonnes (T)	Comment	Year	Named Waste (T)	Total Waste (T)	Waste per Unit Output (in ² wafer used)(Grammes)
Named hazardous wastes	418.10	Weighed	2005	184.2	184.2	0.0039g
Other hazardous wastes			2006	204.5	204.5	0.0036g
			2007	175.5	175.5	0.0023g
Total hazardous waste	418.10		2008	195.6	195.6	0.0058g
			2009	170.6	170.6	0.0014g
Non-Hazardous Wastes			2010	259.14	259.14	0.0014g
Named non- hazardous wastes	13.5	Weighed	2011	250.45	250.45	0.0012g
Other non- hazardous wastes			2012	278.44	278.44	0.0016g
			2013	343.00	343.00	0.0018g
Total non- hazardous waste	13.5		2014	323.035	323.035	0.0015g
TOTAL WASTE	431.6*					

Operator's Comments:	
Waste per unit output = Hazardous + Non-hazardous / in ² of wafers used	* Non – hazardous wastes
Wafers used 2015 = 268,676.07 in ²	45.2 % landfilled – 6.1 tonnes
Waste per unit output 2015 = 0.0016g	54.8% diverted for re-use or recycling - 7.4 tonnes

06/01/2016

X

HSE Manager (UK Operations)
Signed by: Shane Alder

* Authorised to sign as a representative of the Operator.

Date of Form: 21/01/2014