

Permit Reference Number: JP3536LS

Operator: Qioptiq Ltd

Installation: St Asaph Lens Coating

Form Number: L1

Reporting of Compliance with Low Impact Installation criteria

Criteria		Description	Demonstration of Compliance
Raw materials:	The installation must not release more than 20m ³ of water per day as waste water or effluent. Not account need be taken of the volume of water exported from the installations as product.		The water meter reading at the end of 2014 was 202 M3 Water consumption for the period is 20m ³ .
Techniques to prevent and reduce waste arisings and emissions:	The installation must comply with the criteria in this guidance without having to rely on active abatement. In particular, releases must not be dependent on continuing or correct operation of equipment.		This is compliant in accordance with the Low Impact Assessment submitted to the Environment Agency in 2006. The annual monitoring of emission and waste generation is in accordance with permit requirements.
Waste Production:	The installation must not give rise to more than 1 tonne of controlled waste per day, averaged over a year, with not more than 20 tonnes being released in any one day. No more than 1% should be Hazardous waste.		Reactor Columns (s/s cylinders) = 100kg Contaminated tissues = 700kg Estimated commercial waste 100kg Total waste = 860kg
Energy Consumption:	The installation must not consume energy at a rate greater than either 1MW or, if the installation uses a combined heat and power installation to supply any internal process heat, 10MW, or 3MW if fuelled by waste oil.		As per attached energy usage report) Consumption below 1MW limit.

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

Date.....

Qioptiq Ltd: JP3535LS.

2014 energy consumption estimations.

Plant item	Quantity of plant items	kW rating (as used)	Usage (days/runs)	Hours/day	Yearly usage (kWh)
DLC chamber					
Rotary pump	1	1.1	350	24	9240
Turbo pump	1	0.5	350	24	4200
RF Generators	1	0.6	465	2	558
BP chamber					
Chamber	2	0.5	180	24	4320
Diff	2	1	350	24	16800
RF Generator	2	0.4	180	6	864
Heaters	2	1	180	24	8640
Drystar	2	2.2	350	24	36960
Stack					
Fan	1	0.55	350	24	4620
Scrubbers	3	2.1	350	24	52920
Gas Cabinet extract	3	0.25	350	24	6300
Chiller	1	2.5	350	24	21000
Compressed air					
	1	5.5	350	24	46200
Lighting	54	0.054	250	15	10935
Total					
consumption				223557	kWh/annum
Primary					
consumption				581248	kWh/annum