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Lara Cubley
Natural Resources Wales
Chester Rd
Buckley
Flintshire
CH7 3AJ

Date: 04/02/2014

Reference: JP3536LS
Operator: Qioptiq Ltd
Reporting Period: 01/01/2013 – 31/12/2013

Direct Line: 01745 588167

Dear Lara Cubley,
Please find attached annual report for the BP Facility Permit JP3536LS which we trust you will find in good order.

Please also find attached copy of our energy consumption estimates and the results from our emission survey carried out by ESG Ltd.

If you have any queries regarding this submission please do not hesitate to contact me

Yours sincerely,

Debbie I. Roberts

Debbie Roberts
Environmental & COSHH Engineer

MONITORING RETURNS N. WAL

	INITIALS	DATE
CHECKED VS AUTHORISATION	LC	21.3.14
TRACKING	JB	7.2.14
OK FOR PUBLIC REGISTER	LC	21.3.14
THE SIGNATURE OF THE ENGINEER	JB	EDem

Permit Reference Number: JP3536LS

Operator: Qioptiq Limited

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 20 m3 of water per day as waste water or effluent. No account need be taken of the volume of water exported from the installations as product.	The water meter reading at the end of 2013 was 182m3. Water consumption for the period is 22m3.
Techniques to prevent and reduce waste arising 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) = 78kg Contaminated Tissues = 240kg Estimated commercial waste = 60kg Total waste = 378kg
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, 10 MW, or 3MW if fuelled by waste oil.	(As per attached energy usage report) Consumption below 1 MW limit.

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

Date 4/2/2014

Qioptiq Ltd: JP3535LS.

2013 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	350	24	9240
	Turbo pump	1	350	24	4200
	RF Generators	1	411	2	493
BP chamber	Chamber	2	157	24	3768
	Diff	2	350	24	16800
	RF Generator	2	157	6	754
	Heaters	2	157	24	7536
	Drystar	2	350	24	36960
Stack	Fan	1	350	24	4620
	Scrubbers	3	350	24	52920
	Gas Cabinet extract	3	350	24	6300
Chiller		1	350	24	21000
Compressed air		1	350	24	46200
Lighting		54	250	15	10935

Total
consumption **221726** kWh/annum
Primary
consumption **576487** kWh/annum