



Compliance Assessment Report

Report ID:
CAR_NRW0031553

This form will report compliance with your permit as determined by an NRW officer

Site	St Mellons Semiconductor Plant EPR/KP3235SS	Permit Ref	KP3235SS
Operator/Permit holder	IQE (Europe) Ltd		
Regime	Installations		
Date of assessment	28/03/2017	Time in	10:00 Out 13:00
Assessment type	Report/Data Review		
Parts of the permit assessed	Reporting		
Lead officer's name	Willey, David		
Accompanied by			
Recipient's name/position	Shane Alder/ EHS Manager	Date issued	27/04/2017

Section 1 – Compliance Assessment Summary

This is based on the requirements of the permit under the Environmental Permitting Regulations or the licence under the Water Resources Act 1991 as amended by the Water Act 2003. A detailed explanation is captured in "Compliance Assessment Report Detail" (Section 2) and any actions you may need to take are given in the "Action(s)" (section 4). This summary details where we believe any non-compliance with the permit has occurred, the relevant condition and how the non-compliance has been categorised using our Compliance Classification Scheme (CCS). CCS Scores can be consolidated or suspended where appropriate, to reflect the impact of some non-compliances more accurately. For more details of our CCS scheme, contact your local office.

Permit conditions and compliance summary	CCS Category	Condition(s) breached
KEY: See Section 5 for breach categories, suspended scores will be indicated as such. A = Assessed or assessed in part (no evidence of non-compliance), X = Action only, O = Ongoing non-compliance, not scored.		

Number of breaches recorded	0	Total compliance score (see section 5 for scoring scheme)	0
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If the Number of breaches recorded is greater than zero, please see Section 3 for our proposed enforcement response

*Public Register
EP 29/6/17*

Section 2 – Compliance Assessment Report Detail

This section contains a report of our findings and will usually include information on:

- The part(s) of the permit that were assessed (eg. Maintenance, training, combustion plant, etc)
- Where the type of assessment was 'Data Review' details of the report/results triggering the assessment
- Any non-compliances identified
- Any non-compliances with directly applicable legislation
- Details of any multiple non-compliances
- Information on the compliance score accrued inc.
- Details of advice given
- Any other areas of concern
- Any actions requested
- Any examples of good practice
- A reference to photos taken

IQE Europe site visit on 28th March 2017

A site visit was arranged to familiarise Anna Lewis from the Wales permitting team with the process at the site. The application has been Duly Made by the permitting team and is currently in determination. The meeting also enabled some pre-application discussions for a new IQE site with Jane Hall from Atkins Consultancy.

New Proposed site

Discussions were held for a proposed new site undertaking a similar process to the IQE Europe Site. The applicant is looking to have 5 production tools on site by July 2017 with a total of 15 production tools in place by December 2018.

Initially the site will be sub COMAH but will be above the threshold when all the production tools are on line.

The permit application is likely to be submitted late April / early May 2017. NRW were asked to confirm the guidance to be used to meet the current BAT requirements. NRW confirm that the approach NRW are taking is that permit reviews are kicked off by the specific vertical sector BRef BATcs being published. NRW won't be reviewing and varying any permits in the chemical sector until a specific vertical BRef BATc is issued – this does not include the CWWWT in the Chemical Industry BRef as it's a horizontal BRef. NRW will apply retrospectively any BATcs in any previously relevant BRefs, e.g. the issued CWWWT BRef, that have had the conclusions published, when the IED review is triggered by the issuing of a vertical BRef.

If the operator is applying to vary their permit, or applying for a new permit, and there are releases related to waste water or waste gas emissions, NRW would take heed of the BATCs in the horizontal BRef – as this is not an IED permit review.

A full-scale permit review would be undertaken when a vertical BRef is published.

Due to the associated timelines with the determination of the permit there will be a period when the site will need to begin commissioning without the permit being granted. During this period IQE will liaise with NRW for a temporary agreement to allow the activities to commence.

The installation boundary is to be confirmed by the applicant taking into consideration historic pollution and future expansion.

Variation to permit EPR/KP3235SS

IQE have requested, and NRW have agreed, to the temporary operation of the G5 aixtron reactor whilst

the permit is in determination with NRW. A letter was sent on 7th April 2017 to allow the operation of the G5 reactor. The letter stated;

Following our meeting on the 28th March 2017 Natural Resources Wales (NRW) have agreed to allow IQE Europe Ltd. to commission the G5 reactor. An application to vary the permit for the new G5 reactor has been Duly Made by the NRW Wales Permitting Team permit and is currently in determination.

IQE Europe Ltd propose to commission the G5 reactor in May / June 2017 and will involve test runs for R&D purposes, not for full scale production. The risk to the environment during this period will be negligible with the Edwards Spectra G abatement continuing to be utilised during this period.

Should there be any adverse effects the activity must be stopped immediately and Natural Resources Wales notified.

Please note that this is a temporary agreement whilst the variation application is in determination. However, our position could change if we receive information that the process does not have adequate environmental control or if the permit variation is not allowed.

The variation will include a new emission point to air as well as a new emission to sewer from the wet abatement scrubbers where the effluent was previously exported off site.

A site tour was undertaken to familiarise permitting with the site.

Annual reporting

The following returns have been received by NRW:

Form A1

For the period 01/07/2016 to 31/12/2016 – no comments. Total annual raw ammonia usage up very slightly from 0.072 in 2015 to 0.076 in 2016.

Form E1

For 2016 the total energy use at the site has increased with the CO2 per unit decreasing from the previous 6 years.

Form W1

Total water used at the site has increased from 2871 to 3403 m3.

Form R1

Waste per unit has shown a decrease as has the amount of waste sent for disposal.

ACTION: IQE to confirm whether waste is sent for landfill or for incineration? The Cardiff ERF is considered to be a recovery operation.

EMS objectives 2016

The 2016 objectives were received with no comments from NRW.

Fugitive emission and BAT review

The fugitive emissions annual review for 2016 has been received with no comments from NRW.

END.



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EPR Compliance Assessment Report

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Site	St Mellons Semiconductor Plant EPR/KP3235SS	Permit Ref	KP3235SS
Operator/Permit holder	IQE (Europe) Ltd	Date	28/03/2017

Section 3 – Enforcement Response

You must take immediate action to rectify any non-compliance and prevent repetition.

Non-compliance with your permit conditions constitutes an offence and can result in criminal prosecutions and/or suspension or revocation of a permit. Please read the detailed assessment in Section 2 and the steps you need to take in Section 4 below.

Section 4 – Action(s)

This section summarises the actions identified during the assessment along with the timescales for when they will need to be completed.

Criteria Ref.	CCS Category	Action required/advised	Due Date
See Section 1 above			

Section 5 – Compliance notes for the Operator

To ensure you correct actual or potential non-compliance we may

- Advise on corrective actions verbally or in writing
- Require you to take specific actions verbally or in writing
- Issue a notice
- Require you to review your procedures or management system
- Change some of the conditions of your permit
- Decide to undertake a full review of your permit

Any breach of a permit condition is an offence and we may take legal action against you

- We will normally provide advice and guidance to assist you to come back into compliance either after an offence is committed or where we consider that an offence is likely to be committed. This is without prejudice to any other enforcement response that we consider may be required.
- Enforcement action can include the issue of a formal caution, prosecution, the service of a notice and/or suspension or revocation of the permit.

See our Enforcement and Civil Sanctions guidance for further information

This report does not relieve the site operator of the responsibility to

- Ensure you comply with the conditions of the permit at all times and prevent pollution of the environment
- Ensure you comply with other legislative provisions which may apply

Non-compliance scores and categories

CCS category	Description	Score
C1	A non-compliance that could have a major environmental effect	60
C2	A non-compliance which could have a significant environmental effect	31
C3	A non-compliance which could have a minor environmental effect	4
C4	A non-compliance which has no potential environmental effect	0.1

Operational Risk Appraisal (Opra) - Compliance assessment findings may affect your Opra score and/or your charges. This score influences the resource we use to assess permit compliance.

Section 6 – General information

Data protection notice

The information on this form will be processed by the Natural Resources Wales (NRW) to fulfil its regulatory and monitoring functions and to maintain the relevant public register(s). The NRW may also use and/or disclose it in connection with:

- Offering/providing you with its literature/services relating to environmental matters
- Consulting with the public, public bodies and other organisations (eg. Health and Safety Executive, local authorities) on environmental issues
- Carrying out statistical analysis, research and development on environmental issues
- Providing public register information to enquirers
- Investigating possible breaches of environmental law
- Assessing customer service satisfaction and improving its service
- Freedom of Information Act/Environmental Regulations request

The NRW may pass it on to its agents/representatives to do these things on its behalf. You should ensure that any persons named on this form are informed of the contents of this data protection notice.

Disclosure of information

The NRW will provide a copy of this report to the public register(s). However, if you consider that any information contained in this report should not be released to the public register(s) on the grounds of commercial confidentiality, you must write to your local area office within fifteen working days of receipt of this form indicating which information it concerns and why it should not be released, giving your reasons in full.

Customer charter

What can I do if I disagree with this compliance assessment report?

If you are unable to resolve the issue with your site officer, you should firstly discuss the matter with officer's line managers using the informal appeals procedure. If you wish to raise your dispute further through our official Complaints and Commendations procedure, phone our general enquiry number 0300 065 3000 (Mon to Fri 08.00 – 18.00) and ask for the Customer Contact team or send an email to enquiries@naturalresourceswales.gov.uk. If you are still dissatisfied you can make a complaint to the Public Services Ombudsman for Wales. For advice on how to complain to the Ombudsman phone their helpline on 0845 607 0987.

Welsh Language

If you would like this form in Welsh please contact your Regulatory Officer.