Cyfoeth Naturiol Cymru Natural Resources Wales

Compliance Assessment Report

Report ID: CAR_NRW0036259

This form will report compliance with your permit as determined by an NRW officer					
Site	Newport Semiconductor Plant EPR/BV7460ID	Permit Ref	BV7460ID		
Operator/Permit holder	Newport Wafer Fab Limited				
Regime	Installations				
Date of assessment	30/01/2020	Time in	N/A	Out	N/A
Assessment type	Report/Data Review				
Parts of the permit assessed	4.1.3 Annual Reports 2019; 4.1.5 EMS Targets Review 2019				
Lead officer's name	Green, Rebecca				
Accompanied by					
Recipient's name/position	Sarah Underwood/ Environmental Engineer	Date issued	03/02/2020		

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
A1 - Specified by permit	A	
C2 - General Management - Management system and operating procedures	A	
E1 - Emissions - Air	A	
E4 - Emissions - Sewer	A	
E5 - Emissions - Waste	A	
G1 - Monitoring and Records, Maintenance and Reporting - Monitoring of emissions and environment	A	
G4 - Monitoring and Records, Maintenance and Reporting - Reporting and notification to Natural Resources Wales	A	
H1 - Resource Efficiency - Efficient use of raw materials	A	
H2 - Resource Efficiency - Energy efficiency	A	

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

If the Number of breaches recorded is greater than zero, please see Section 3 for our proposed enforcement response

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

Forms R1, Waste Disposal and Recovery 2019; WU1, Water Usage 2019; E1, Energy Usage 2019 and S1, Emissions to Sewer, 1st July to 31st December 2019, were received on 28th January 2020.
The Environmental Targets and Achievements Review, the Silicon Output for 2019 and the Solvent Emission Review for 2019, were also received on 28th January 2020.
All the reports are accepted.

S1 Emissions to Sewer, 1st July to 31st December 2019
All parameters were within their respective emission limit values.

Silicon Output 2019
This was 19% less than in 2018.

R1 Waste Disposal and Recovery 2019
The amount of waste generated was the same as in 2018, both in terms of the overall total and the amount per m^2 of silicon (/m^2 Si) produced. The total amount of liquid waste sent for disposal was higher than in 2018 and 30%/m^2 Si more than in 2018. The total amount of waste sent for recovery was similar to that in 2018.
The total solvent sent for recovery was less than in 2018 and almost 19% less per m^2 Si. Non-hazardous waste sent for recovery was 23% more per m^2 Si than in 2018, despite the total amount being the same. More hazardous waste was sent for recovery than in 2018, increasing to more than 30%/m^2 Si.

E1 Energy Usage 2019
Total energy used and the associated CO_2 produced were less than in 2018, but the amount used and the CO_2 produced were both 19% higher /m^2 Si.

WU1 Water Usage 2019
The total used was less than in 2018 , but 12%/m^2 Si higher than in the previous year.

Environmental Targets and Achievements Review CY19
This review does not run from calendar year to calendar year and so the results are not directly comparable with those in the reports above.
Targets for water usage and energy usage were not met due to lower than projected production volumes.
The target of reducing the amount of non-hazardous waste sent to landfill to be less than 1% was exceeded. No waste was sent to landfill.

Solvent Emissions Review 2019
Solvent use was significantly less than in 2018, even when the reduction in production is taken into account. It decreased by almost 35% overall, (18%/m2 Si) and total chemical use was more than 25% less than in 2018.
Estimated fugitive solvent emissions remain at 5%.

It is very difficult for manufacturing sites to reduce their resource consumption when production volumes vary, as each process will have a baseline requirement in order to keep it viable or to reduce very high start up costs. This was the case for Newport Wafer Fab (NWF) in 2019. However, the amounts of hazardous and non-hazardous waste sent for recovery have both increased and no waste was sent to landfill. These are encouraging results and we hope that NWF will be able to increase production and continue with their resource efficiency programmes in 2020.

END.

Cyfoeth Naturiol Cymru Natural Resources Wales	**EPR Compliance Assessment Report**	**Report ID: CAR_NRW0036259**

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

Site	Newport Semiconductor Plant EPR/BV7460ID	Permit Ref	BV7460ID
Operator/Permit holder	Newport Wafer Fab Limited	Date	30/01/2020

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.

Other than the provision of advice and guidance, at present we do not intend to take further enforcement action in respect of the non-compliance identified above. This does not preclude us from taking enforcement action if further relevant information comes to light or advice isn't followed.

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.