



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

Site	AG Fluoropolymers, Hillhouse - EPR/BU5453IY			Permit Ref	BU5453IY		
Operator/ Permit holder	AGC CHEMICALS EUROPE LIMITED						
Date	30/12/2022			Time in	12:00	Out	12:01
What parts of the permit were assessed	Chlorodifluoromethane (R22) emission above limits 23/12/2022						
Assessment	Report/data review	EPR Activity:	Installation	X	Waste Op	Water Discharge	
Recipient's name/position							
Officer's name				Date issued	23/02/2023		

Section 1 - Compliance Assessment Summary

This is based on the requirements of the permit under the Environmental Permitting Regulations (EPR). A detailed explanation and any action you may need to take are given in the "Detailed Assessment of Compliance" (section 3). 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			Condition(s) breached
a) Permitted activities	1. Specified by permit	A	
b) Infrastructure	1. Engineering for prevention & control of pollution	N	
	2. Closure & decommissioning	N	
	3. Site drainage engineering (clean & foul)	N	
	4. Containment of stored materials	N	
	5. Plant and equipment	N	
c) General management	1. Staff competency/ training	N	
	2. Management system & operating procedures	N	
	3. Materials acceptance	A	
	4. Storage handling, labelling, segregation	N	
d) Incident management	1. Site security	N	
	2. Accident, emergency & incident planning	N	
e) Emissions	1. Air	C4	3.1.2;
	2. Land & Groundwater	N	
	3. Surface water	N	
	4. Sewer	A	
	5. Waste	N	
f) Amenity	1. Odour	N	
	2. Noise	N	
	3. Dust/fibres/particulates & litter	N	
	4. Pests, birds & scavengers	N	
	5. Deposits on road	N	
g) Monitoring and records, maintenance and reporting	1. Monitoring of emissions & environment	N	
	2. Records of activity, site diary, journal & events	N	
	3. Maintenance records	N	
	4. Reporting & notification	A	
h) Resource efficiency	1. Efficient use of raw materials	N	
	2. Energy	N	

KEY: C1, C2, C3, C4 = CCS breach category (* suspended scores are marked with an asterisk),

A = Assessed (no evidence of non-compliance), N = Not assessed, NA = Not Applicable, O = Ongoing non-compliance – not scored

MSA, MSB, TCM = Management System condition A, Management System Condition B and Technically Competent Manager condition which are environmental permit conditions from Part 3 of schedule9 EPR (see notes in Section 5/6).

Number of breaches recorded	1	Total compliance score (see section 5 for scoring scheme)	0.1
If the Total No Breaches is greater than zero, then please see Section 3 for details of 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 (e.g. 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 suspended or consolidated scores.
- details of advice given
- any other areas of concern
- all actions requested
- any examples of good practice.
- a reference to photos taken

This report should be clear, comprehensive, unambiguous and normally completed within 14 days of an assessment.

Our Decision

The company reported an incident relating to the "acid scrubber" / pyrolysis plant or A2 Waste Acid Stack

The limit for emissions set in the permit is 800g R22/hour weekly average.

The company reported that they average weekly average was 810.6g/hour. This represents a breach of the limit.

However, the breach is just 1.3% above the limit. Following a meeting with the company, I was provided with 2022 data summary showing that they had not breached the limits previously and that the average for the year was well below the limits, has it been an annual limit.

The harm of R22 is as a climate change effecting gas and as an ozone depleting substance, not as harm to human health, therefore the total cumulative mass, rather than the weekly release is of more significance.

Permit condition 3.1.2 states that the limits given in schedule 3 shall not be exceeded.

I regard the emission to be a trivial exceedance in the context of the entire years data it is of no marginal significance Therefore I have attributed a CCS4 score (the lowest rating available). I will deal with management conditions in my response to another incident for A1 reported on 19 December 2022 and updated on 21/12/2022.

I commend the company for a very thorough response and setting the breach in context.

Our advice and guidance is to review procedures to ensue reduced probability of recurrence.

[this report was written in February 2023 but has been attributed to compliance year 2022]

The text of the report from the company as follows:

The environmental permit limit for both Chlorodifluoromethane (R22) and Pentafluoroethane (R125) for emission point A1 Low Boiler Stack is 100g/hr (weekly average).

During the week commencing 12 December 2022 the weekly R22 and R125 average for the Low Boiler Stack was exceeded due to a higher than normal result on the 16 December.

This resulted in the weekly average results being:

- 458.0 g/hour for R22

- • 280.3 g/hour for R125

All other daily R22 and R125 results for the Low Boiler Stack, for the w/c 12 December were within environmental permit limits

On the 15 December there had been issues with freezing.

Steam is used to control the temperature of the distillation columns. Due to the extreme cold weather, it is believed condensate in the instrument impulse line to the steam supply instruments froze, this resulted in abnormal steam supply rates and insufficient heating was provided to the distillation column (2A still).

The insufficient heating of the distillation column led to excess impurities being fed forward (including R22 and R125) causing abnormal operating conditions and increasing levels of R22 and R125 being discharged to the low boiler stack.

Measures taken, or intended to be taken to prevent a recurrence of the incident

During the extreme cold weather, the AGCCE operations team worked to ensure temperature control within the distillation process was maintained.

Once the problem with 2A still the steam flow was identified this impulse line was defrosted and 2A still temperature brought back up to normal levels. Following this, normal operating conditions were established preventing further abnormal emissions.

Since the breach on 16 December the Low Boiler Stack has demonstrated results within environmental permit limits.

Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission

See above details of the action taken by the AGCCE operations team.

In addition to this the lagging around the impulse lines will be reviewed to ensure this is sufficient to prevent further issues associated with freezing condensate in impulse lines.

The weekly average R22 and R125 for the Low Boiler Stack have been within permitted limits as follows:

w/c 19 December

- • 26.2 g/hour for R22
- • 0 g/hour for R125

w/c 26 December

- • 0 g/hour for R22
- • 0 g/hour for R125

w/c 02 January

- • 6.5 g/hour for R22
- • 0 g/hour for R125

w/c 09 January

- 0 g/hour for R22
- 0 g/hour for R125

No reportable incidents in the preceding 24 months.

Section 3- Enforcement Response

Only one of the boxes below should be ticked

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.

**Non-compliance with MSA, MSB & TCM do not constitute an offence but can result in the service of a compliance, suspension and/or revocation notice.*

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.	X
In respect of the above non-compliance you have been issued with a warning. At present we do not intend to take further enforcement action. This does not preclude us from taking additional enforcement action if further relevant information comes to light or offences continue.	
We will now consider what enforcement action is appropriate and notify you, referencing this form.	

Section 4- Action(s)

Where non-compliance has been detected and an enforcement response has been selected above, this section summarises the steps you need to take to return to compliance and also provides timescales for this to be done.

Criteria Ref.	CCS Category	Action Required / Advised	Due Date
See Section 1 above			
E1	C4	No action specified	N/A

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 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.

● A civil sanction Enforcement Undertaking (EU) offer may also be available to you as an alternative enforcement response for this/these offence(s).

See our Enforcement and Civil Sanctions guidance for further information

A breach of permit condition **MSA, **MSB** & **TCM** is not an offence but may result in the service of a notice requiring compliance and/or suspension or revocation of the permit.*

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 which 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.

MSA, MSB & TCM are conditions inserted into certain permits by Schedule 9 Part 3 EPR

MSA requires operators to manage and operate in accordance with a written management system that identifies and minimises risks of pollution.

MSB requires that the management system must be reviewed, kept up-to-date and a written record kept of this.

TCM requires the submission of technical competence information.

Section 6 – General Information

Data protection notice

The information on this form will be processed by the Environment Agency to fulfill its regulatory and monitoring functions and to maintain the relevant public register(s). The Environment Agency 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 (e.g. 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 and taking any resulting action
- preventing breaches of environmental law
- assessing customer service satisfaction and improving its service
- Freedom of Information Act/Environmental Information Regulations request.

The Environment Agency 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 Environment Agency 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 28 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?

A permit holder can challenge any part of the CAR form by writing to the Environment Agency office local to the site within 28 days of receipt. If the issue cannot be resolved by the local office, a permit holder can raise a dispute through our official [complaints procedure](#).

If you are still dissatisfied, you can make a complaint to the Ombudsman. For advice on how to complain to the [Parliamentary and Health Service Ombudsman](#), phone their helpline on 0345 015 4033.