



Permit with introductory note

NORTH EAST LINCOLNSHIRE COUNCIL

**POLLUTION PREVENTION AND CONTROL ACT 1999
Environmental Permitting Regulations 2016 (as amended)**

Installation address

**Exolum Immingham Ltd
West Terminal
West Riverside
Immingham Docks
North East Lincolnshire
DN40 2QU**

Permit Ref. no: EP/200200042/V2

Introductory note

This introductory note does not form a part of the Permit

The following Permit is issued under Regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016 (S.I.2016 No. 1154) ("the EP Regulations") to operate an installation carrying out one or more of the activities listed in Part 2 to Schedule 1 of those Regulations, to the extent authorised by the Permit.

The permit includes conditions that have to be complied with. It should be noted that aspects of the operation of the installation which are not regulated by those conditions shall be subject to best available techniques, used to prevent or, where that is not practicable, reduce emissions from the installation in relation to any aspect of the operation of the installation which is not regulated by any condition within the permit.

Techniques include both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned.

Confidentiality

The Permit requires the Operator to provide information to North East Lincolnshire Council. The Council will place the information onto the public registers in accordance with the requirements of the EP Regulations. If the operator considers that any information provided is commercially confidential, it may apply to North East Lincolnshire Council to have such information withheld from the register as provided in the EP Regulations. To enable North East Lincolnshire Council to determine whether the information is commercially confidential, the Operator should clearly identify the information in question and should specify clear and precise reasons.

Variations to the permit

Your Attention is drawn to the Variation Notification Procedure condition in the permit. This Permit may be varied in the future. If at any time the activity or any aspect of the activity regulated by the following conditions changes such that the conditions no longer reflect the activity and require alteration, the Regulator should be contacted.

Surrender of the permit

Where an Operator intends to cease the operation of an installation (in whole or in part) the regulator should be informed in writing, such notification must be made as specified in regulation 24(3) of the EP regulations.

Transfer of the permit or part of the permit

Before the Permit can be wholly or partially transferred to another person, a joint application to transfer the Permit has to be made by both the existing and proposed holders, in accordance with Regulation 21 of the EP Regulations. A transfer will be allowed unless the Authority considers that the proposed holder will not be the person who will have control over the operation of the installation or will not ensure compliance with the conditions of the transferred Permit.

Responsibility under workplace health and safety legislation

This Permit is given in relation to the requirements of the EP regulations. It must not be taken to replace any responsibilities you may have under Workplace Health and Safety legislation.

Appeal against permit conditions

Right to Appeal

You have the right of appeal against this permit within 6 months of the date of the decision. The Council can tell you how to appeal. You will normally be expected to pay your own expenses during an appeal.

You will be liable for prosecution if you fail to comply with the conditions of this permit. If found guilty, the maximum penalty for each offence if prosecuted in a Magistrates Court is £50,000 and/or 6 months imprisonment. In a Crown Court it is an unlimited fine and/or 5 years imprisonment.

Our enforcement of your permit will be in accordance with the Regulators "Compliance Code."

Anyone who is aggrieved by the conditions attached to a Permit can appeal to the Secretary of State for the Environment, Food and Rural Affairs. Appeals must be made in accordance with the requirements of Regulation 31 and Schedule 6 of the EP Regulations.

Appeals should be received by the Secretary of State for Environment, Food and Rural Affairs. The address is as follows:

The Planning Inspectorate
Environmental Team, Major & Specialist Casework
Room 4/04 – Kite Wing
Temple Quay House
2 The Square, Temple Quay
BRISTOL
BS1 6PN
Tel: 0117 372 8726
Fax: 0117 372 8139

Please Note

An appeal brought under Regulation 31 (1) (b) and Schedule 6, in relation to the conditions in a permit will not suspend the effect of the conditions appealed against; the conditions must still be complied with.

In determining an appeal against one or more conditions, the Act allows the Secretary of State in addition to quash any of the conditions not subject to the appeal and to direct the local authority either to vary any of these other conditions.

End of introductory note

Permit issued under the Environmental Permitting Regulations (England and Wales) 2016 (as amended)

Permit

Permit Ref. No: EP/200200042/V2

North East Lincolnshire Council (the Regulator) in exercise of its powers under Regulation 13(1) of the Environmental Permitting Regulations 2016 (S.I.2016 No. 1154) hereby permits.

Exolum Immingham Ltd ("the operator"),

Whose registered office is:

**Priory House
60 Station Road
Redhill
Surrey
RH1 1PE**

Company Registration. no: 244414

To operate an installation at:

**Exolum Immingham Ltd
West Terminal
West Riverside
Immingham Docks
North East Lincolnshire
DN40 2QU**

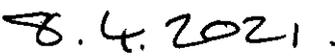
to the extent authorised by and subject to the conditions of this Permit and within the boundary identified in Appendix 1, installation boundary.

Signed



Adrian Moody
Licensing and Environmental Protection Manager
Authorised to sign on behalf of
North East Lincolnshire Council

Dated



Activity description

Process for the storage of chemicals in bulk as prescribed by Section 4.8 of Schedule I to the Environmental Permitting (England and Wales) Regulations 2016 (as amended).

Exolum Immingham Ltd handles bulk fuels and chemicals. The process consist of the reception of acrylates from ships berthed at the Immingham west Jetty or via road tanker. Storage of acrylates is in dedicated storage tanks and is followed by the export via the road tanker loading/unloading yard.

All products are stored in vertical, cylindrical tanks with cone roofs of fully welded construction. Acrylate monomers are stored in mild steel tanks, with scrubbers designed to reduce emissions concentrations to an acceptable level. Additionally the tanks are equipped with individual roof mounted pressure relief valves to protect the tanks in the event of a scrubber or vapour line blockage.

When discharging ships to storage tanks, vapour is back vented to the ships hold. When loading road tankers or intermediate bulk containers (IBC's), vapour is back vented to the storage tank.

The installation boundary and key items of equipment mentioned in permit conditions are shown in the plan attached to this permit.

Conditions

Reference conditions

1. The reference conditions for concentrations of substances in release to air from point sources are:
 - Temperature 273K (0° C), 101.3 kPa (1 atmosphere), no correction for water vapour or oxygen.
 - These units and reference conditions may not be suitable for continuous monitoring methods and may, by agreement with the Inspector, be converted for day to day control purposes, into values more suitable for the available instrumentation.

Release limits

2. The operator shall estimate annual mass losses from all sources associated with the closed storage installation, and demonstrate to the satisfaction of the Regulator that all releases are minimised and rendered harmless. The maximum release of Acrylate via the wet scrubbing system shall be as follows:-

SOURCE	ACRYLATE	MAXIMUM ANNUAL (KILOGRAMS)	MAXIMUM HOURLY EMISSION (GRAMS)
Acrylate monomer scrubber vent	Acrylate monomers	53.8	6.15
Acrylic Acid Scrubber Vent	Acrylic Acid	70.0	8.0

3. Where storages are vented to atmosphere via abatement equipment, the following limits shall apply:

mg/m³

Acrylates and Methacrylates:

Odour should be at the limit of detection at the site boundary, and the vent should not exceed the following concentration:

Ethyl Acrylate	1
Isobutyl Acrylate	1
Methyl Acrylate	5
n-Butyl Acrylate	5
Acrylic Acid	20
t-Butyl and higher Acrylate esters	20
Methacrylic Acid	50
Methacrylate esters	50

The above figures in Condition 3 are for non-continuous monitoring.

4. Offensive odours associated with the process shall not be noticeable beyond the process boundary.
5. All final releases to air shall be essentially colourless, free from persistent trailing mist or fume and free from droplets.
6. All emissions must be controlled and minimised to ensure that ambient air quality beyond the process boundary complies with EC Directives, as a minimum. Releases to air should be minimised not only during storage and handling of products but also, for example, when vessels and pipework are being cleaned, or removed sludges are being handled and disposed of.
7. During normal operation there shall be no emission of acrylate to air other than from the scrubber vents.
8. Emissions from air may occur via the storage tanks pressure relief valves if a blockage or malfunction on a wet scrubber occurs. Every effort must be made to keep such incident to a minimum.

Housekeeping

9. A high standard of house-keeping shall be maintained in all areas with particular attention being paid to those parts of the plant where process and waste materials are stored or loaded. Loading and unloading of vehicles should only be done in designated areas provided with impermeable hard standing.

Plant and Equipment

10. All storage of Acrylates shall be in nominated tanks as agreed in writing with the Regulator.
11. All acrylate storage tanks shall be equipped with a dedicated export pump with a mechanical seal and high temperature protection.
12. All acrylate storage tanks shall be painted in a reflective colour to minimise breathing emissions.

13. Storage Tanks shall be managed in accordance with the Inter Terminals Ltd. Management of Storage Tank Filling Procedure – GPS-2201. Notification of any changes to this procedure must be given to the Regulator in writing.
14. All acrylate monomer and acrylic acid storage tanks shall be equipped with:-
 - a) A connection to the common wet scrubber circulating 10% caustic soda solution as an absorbent.
 - b) Roof- mounted pressure relief valves.
 - c) A flame detonation trap in the vapour line to the scrubber and ship/road facilities.
 - d) Level gauging remote independent high level alarms
 - e) Deluge facilities for cooling the tank.
15. The acrylic acid storage tanks shall be equipped with:-
 - (a) a connection to the acrylic wet scrubbing system or alternative method as agreed with the Regulator.
 - (b) Remotely monitored tank temperature alarms.
 - (c) A temperature control system to maintain the tank contents at 18° c - 24° c
16. The tanks shall be located in a bunded full-containment area that is impervious to spillages and graded so that any spillage does not remain close to the tanks.

Ship Imports

17. All ship imports shall be via a piggable line, using the ships pumps with vapour return to the ship via the dedicated vapour return pipeline.
18. All connection hoses shall be blown clear before disconnecting and blanking.
19. All stainless steel lines must be pigged out to the storage tanks, or the dedicated acrylate slops tank, after the discharge of each grade, with vapour vented via the scrubber. The vapour return line must be pigged to the scrubber.

Road Imports

20. All road imports shall be via the central road tanker transfer station, using the on-site import pumps. Dedicated loading/unloading areas shall be provided with facilities to minimise any form of product release, including those that could arise from vehicle movement. Similarly, suitable barriers shall be in place to prevent damage to any plant equipment from moving vehicles.
21. All connection hoses shall be blown clear before disconnection.
22. Road tankers shall be earthed before commencement of discharge.
23. All lids and openings on the vehicle shall remain closed at all times.

Export

24. All exports shall be via road tankers or ISO tanks at the central tanker transfer station.
25. All displaced vapour shall be returned to the storage tanks via the vapour return pipeline.
26. All road tankers shall be earthed before loading commences.
27. All lids and openings on the vehicle shall remain closed at all times.
28. Flexible hose connections to road/rail tankers shall be equipped with isolation valves or self-sealing couplings at the outer ends. The procedures should be designed to allow liquid to drain from the points of connection into the tank before the connections are broken, and to minimise the volume of wetted line exposed to the air when the connections are broken.
29. A supply of acrylate inhibitor shall be kept on site at all times.

Contingency planning

30. The Operator shall have written procedures to deal promptly with malfunction or breakdown which could lead to abnormal releases of prescribed substances. Process operations shall be reduced or closed down as soon as practicable until normal operations can be restored.
31. When any unanticipated alarm relating to the acrylate storage system is activated, or an abnormal temperature rise is detected, or an escape of acrylate is detected, or when any malfunction or breakdown is likely to lead to an escape of acrylate is found, then:-
 - (a) an immediate investigation shall be carried out;
 - (b) instant corrective action shall be taken;
 - (c) The observations, findings, results of the investigation and actions taken under headings (b) and (d) of this condition shall be entered in the log required by condition 32
 - (d) If the corrective action is not immediately effective then action to mitigate any effect shall be taken; and
 - (e) A written notification shall be forwarded to North East Lincolnshire Council within 7 days.

Record keeping

32. Results of all monitoring and inspections shall be recorded in a log book, or on computer storage as appropriate, within five working days of the measurement determination or inspection being made, unless otherwise agreed by the Inspector on grounds of impracticability. This record should be retained at the works for a minimum of four years after the date of the last entry and be made available for examination as and when required by the

Inspector. Adverse results should be recorded in the log book and investigated immediately. The cause should be identified and corrective action taken with comprehensive records retained in the log book.

Inspection and Testing

33. All storage tanks, pipeline, hoses and abatement equipment shall be tested and inspected in accordance with the Agility maintenance schedule. Records of all tests and inspections shall be kept for 2 years.

Monitoring

34. Regular checks of acrylate temperature shall be undertaken in accordance with an approved procedure as agreed with the regulator.
35. Monitoring of the water in a acrylic scrubber and effluent dosing management system shall be submitted in writing to the Regulator for approval prior to operation.
36. The flame detonation trap pressure/ vacuum valves shall be checked by a competent person every 6 months and a record kept of the findings.
37. The temperature of stored acrylate shall be continuously monitored.
38. Emissions from the vent stacks shall be calculated every 12 months to demonstrate compliance with Condition 3. The results of the tests shall be forwarded to North East Lincolnshire Council within 14 days.
39. Visual and olfactory assessment of emissions shall be made frequently and in case not less than:-
 - (a) Main Office – Daily
 - (b) Number 1 Boiler House – Weekly
 - (c) Fire Pump House – Weekly

The results of all such monitoring shall be recorded in the log required by Condition 32

Emergency Procedures

40. The site shall have written, validated emergency procedures. These shall include procedures to minimise the effects on the environment from spillage or leakage of any material on site.

Training

41. Training of all staff with responsibility for operating the process shall include:
 - Awareness of their responsibility under the permit
 - Minimising emissions on start up and shut down

- Action to minimise emissions during abnormal conditions

The operator shall maintain a statement of training requirements for each operational post and keep a record of the training received by each person whose actions may have an impact on the environment. These documents should be made available to the regulator on request.

Maintenance

42. Effective preventative maintenance should be employed on all aspects of the process including all plant, buildings and the equipment concerned with the control of emissions to air in particular. A written maintenance programme should be provided to the regulator with respect to pollution control equipment, and a record of such maintenance should be made available for inspection.

End of Permit

