

# Torfaen County Borough Council



## Permit with introductory note

**The Pollution Prevention and Control Act 1999**

**The Environmental Permitting (England & Wales)  
Regulations 2010**

**Part B Permit for:** Crane Process Flow Technologies Ltd  
Grange Road  
Cwmbran  
Torfaen  
NP44 3XX

**Permit Reference TCBC EPA B23**

**RUBBER INSTALLATION**

**Address for Communication:**

**Planning and Public Protection Department  
Ty Blaen Torfaen  
Panteg Way  
New Inn  
Pontypool  
Torfaen  
NP4 0LS**

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## **Introductory note**

### **This introductory note does not form part of the Permit**

This Permit authorises the operation of an activity listed in Part 2 to Schedule 1 of the Environmental Permitting (England and Wales) Regulations 2010 (S.I. 2010 / No. 675) [the EP Regulations] to the extent specified in the Permit and shall be treated as having been granted under Regulation 13(1) of those Regulations. It must not be taken to replace any responsibilities under The Health and Safety at Work (Etc) Act 1974 and associated legislation.

### **Brief description of the installation regulated by this permit**

The rubber installation involves the blending and milling of rubber with the addition of carbon black prior to rubber moulding and curing processes to form rubber parts and linings for use in flow technologies such as valves.

## **Talking to us**

To speak to an officer concerned with this permit please contact Peter Oates on 01633 647290 or peter.oates@torfaen.gov.uk.

In the event of an emergency occurring outside of normal office hours you should contact 01495 762200 and ask for the Environmental Health Officer.

## **Confidentiality**

The Permit requires the Operator to provide information to the 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 the Council to have such information withheld from the register as provided in the EP Regulations. To enable the 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 of the Permit**

This Permit may be varied in the future in accordance with Regulation 20 of the EP Regulations. The Status Log within the Introductory Note to any such variation will include summary details of this Permit, variations issued up to that point in time and state whether a consolidated version of the Permit has been issued.

## **Surrender of the Permit**

Before this Permit can be wholly or partially surrendered, an application to surrender the Permit has to be made in accordance with Regulation 24 of the EP Regulations.

## **Transfer 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 Council 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.

Any change in the activities covered by this permit must be notified to the Council for approval prior to implementation.

## **Offences**

Regulation 38 of the EP Regulations defines the offences that may arise as a result of non-compliance with the regulations or conditions contained within this permit. You are advised to be familiar with this regulation since a person guilty of an offence could be fined up to £50,000 and/or be subject to imprisonment for a term not exceeding 12 months.

## **Enforcement**

If the conditions attached to this Permit are not adhered to, then an enforcement notice may be served upon the operator in accordance with Regulation 36 of the EP Regulations. This notice will specify the contraventions and the steps to be taken to remedy the situation. It is an offence not to comply with such an Enforcement Notice (see above).

## **Revocation**

The Permit may be revoked at any time by the enforcing Local Authority in accordance with Regulations 22 & 23 of the EP Regulations. This will particularly be considered if fees are not paid or enforcement notices are not complied with, in accordance with Regulation 65(5).

## **Suspension**

The Regulator has a duty to serve a suspension notice in accordance with Regulation 37 of the EP Regulations if it is considered that there is a risk of serious pollution to the environment, whether or not there has been a breach of the Permit.

## **Appeals**

Any person who has been refused a Permit, is aggrieved by the conditions attached to the Permit, has been refused a variation of a Permit on application or has had a Permit revoked may appeal against the decision of the Regulator to the Welsh Ministers.

## **Powers of entry**

Any duly authorised officer of the Regulator may enter premises to inspect activity at all reasonable times. On entry of the premises the officer also has powers to take any equipment or materials with him for which the power of entry is being exercised, to make such examination and investigation as may be necessary, to take such photographs, measurements or samples and seek any other assistance necessary to assist him in his duties.

## Status Log

Detail	Date	Comment
<b>Application for an Environmental Protection Act 1990 Authorisation</b>	<b>10.06.1993</b>	
<b>EPA 1990 Authorisation Issued</b>	<b>June 1993</b>	
<b>Transfer of authorisation to Permit.</b>	<b>30.08.2006</b>	<b>Implementation of The Pollution Prevention and Control (England &amp; Wales) Regulations 2000</b>
<b>Major Permit Review and Transfer of PPC Permit to Environmental Permit</b>	<b>03.07.2015</b>	<b>Implementation of The Environmental Permitting (England &amp; Wales) Regulations 2010</b>

Current PG Note – PG 6/28 (04)

*PG notes are under review please contact the DEFRA website for the latest version.*

<http://www.defra.gov.uk/environment/quality/industrial/las-regulations/guidance/>

# Permit

## The Environmental Permitting (England & Wales) Regulations 2010

Permit number: **TCBC/EP B23**

Torfaen County Borough Council (“the Regulator”) in exercise of its powers under Regulation 13 of the Environmental Permitting (England & Wales) Regulations 2010 (S.I. 2010 No. 675), hereby permits

Crane Process Flow Technologies Ltd. (“the operator”)

Of/whose *Registered Office* is

Crane Process Flow Technologies Ltd  
Grange Road  
Cwmbran  
Torfaen  
NP44 3XX

to operate an installation at

Crane Process Flow Technologies Ltd  
Grange Road  
Cwmbran  
Torfaen  
NP44 3XX

to the extent authorised by and subject to the conditions of this Permit.

Signed

[Signature box]

**Peter Oates: Senior Environmental Health Officer**

Authorised to sign on behalf of Torfaen County Borough Council

Date

**03.07.2015**

## The Permitted Installation

The Operator is authorised to carry out the activities and/or the associated activities specified in Table 1

**Table 1**

Activity under Schedule 1 of the Regulations	Schedule 1 Activity Reference	Description of Specified Activity
Chapter 6 – Other Activities	Section 6.7 – Activities involving Rubber	Part B (b) – The mixing milling or blending of- (i) Natural Rubber or (ii) Synthetic Organic Elastomers Using Carbon Black
Directly Associated Activity	N/A	N/A



# Permit Conditions

## Emission Limits and Controls

1. All releases to air in normal operation, including start up and shut down, other than condensed water vapour, shall be free from persistent visible emissions.
2. All emissions shall be free from offensive odour outside the installation boundary, as perceived by authorised officers of Torfaen County Borough Council.
3. Emissions from combustion processes shall, during normal operation, be free from visible smoke and in any case shall not exceed the equivalent of Ringelmann Shade 1 as described in British Standards BS 2742: 1969.
4. All pollutant concentrations shall be expressed at reference conditions, 273 K, 101.3 kPa without correction for water vapour content.
5. The following Table 2 shows the specified emission limits, monitoring method and frequency for the abatement plant associated with the rubber conversion processes. No result obtained from monitoring exercises shall exceed these emission limits.

**Table 2**

Row Number	Pollutant	Concentration Limit Value	Monitoring Method & Frequency
1	<b>Carbon Monoxide</b>	<b>100 mg/m<sup>3</sup></b> (as 30 minute mean)	Annual Manual Extractive BS EN 15058 and NDIR <sup>1</sup>
2	<b>Particulate Matter</b> (from the storage, handling or mixing of Carbon Black)	<b>10 mg/m<sup>3</sup></b> (as 30 minute mean)	Annual Manual Extractive BS EN 13284-1 and MID Isokinetic Sampling Followed by Weighing
3	<b>Particulate Matter</b> (from any other source)	<b>50 mg/m<sup>3</sup></b> (as 30 minute mean)	Annual Manual Extractive BS EN 13284-1 and MID Isokinetic Sampling Followed by Weighing

4	<b>Oxides of Nitrogen</b>	<b>100 mg/m<sup>3</sup></b> (as 30 minute mean)	Annual Manual Extractive BS EN 14792 and Chemiluminescence Analyser <sup>2</sup>
5	<b>Volatile Organic Compounds</b> (as total carbon excluding particulate matter)	<b>50 mg/m<sup>3</sup></b> (as 30 minute mean)	Annual Manual Extractive BS EN 13526

<sup>1</sup> BS EN 15058 is a reference method based on using a NDIR analyser. An AM may be used provided the user can demonstrate equivalence to CEN/TS 14793 - "*Intralaboratory procedure for an alternative method compared to a reference method*", to the satisfaction of UKAS and the regulator

<sup>2</sup> BS EN 14792 is a reference method based on chemiluminescence. An AM may be used provided the user can demonstrate equivalence to CEN/TS 14793 - "*Intralaboratory procedure for an alternative method compared to a reference method*", to the satisfaction of UKAS and the regulator

*Test methods are continually being reviewed and updated and Operators are advised to check the Environment Agency website for information on the latest approved test methods.*

<http://www.environment-agency.gov.uk/business/regulation/31831.aspx>

6. The introduction of dilution air to achieve an emission concentration limit is not permitted.
7. All appropriate precautions must be taken to minimise emissions during start-up, shut down and emergency shut downs.

## **Emissions from Silos**

8. All silo filtration plant, where present, shall be designed to operate to an emission standard of less than 10 mg/m<sup>3</sup> for particulate matter.
9. The operator shall have a procedure in place to ensure that visual assessment of emissions from silo inlet connectors and the silo arrestment plant are undertaken throughout the duration of all bulk deliveries. The start and finish times of all deliveries shall be recorded.
10. Silo arrestment plant and arrestment plant serving other process operation shall be inspected at the frequency specified below:

## Filtration Plant Inspection Frequency

Filter Cleaning Method	Frequency of Visual Inspection
Fitted with reverse jets	At least once a month
Fitted with mechanical shakers	At least once a month
Requiring manual shaking	Daily inspection or prior to any delivery being made if deliveries are not daily

A written record of the inspection results shall be kept on site and made available for inspection by authorised officers of Torfaen County Borough Council.

## Inspection of Filtration Plant

11. Outlets from filtration plant shall be checked for signs that emissions have occurred. The equipment shall also be checked for defects in the air flow or the cam shakers. If emissions or defects are detected, then corrective action shall be taken promptly and before further deliveries take place. Any failure of the silo management system (e.g. high level alarms, filters, pressure relief valves) shall lead to a full investigation of the operation of the plant and equipment.
12. Reduced inspection frequencies of bag filter arrestment plant may be agreed with Torfaen County Borough Council if appropriate and in accordance with criteria laid down in PG 6/28 (04) 1. . Such applications must be made in writing and be fully documented.
13. Empty bags which have contained carbon black shall be placed in a closed container immediately after emptying by a method which minimises the emission of particulate matter.

## Monitoring, Investigations and Recording

14. The operator shall keep records of inspections, tests and monitoring, including all non-continuous monitoring, inspections and visual assessments. The records shall be:
  - kept on site
  - kept by the operator for at least two years; and
  - made available for authorised officers of Torfaen County Borough Council to examine

## **Information Required by Torfaen County Borough Council**

15. The operator shall provide a list of key abatement plant relevant to the rubber conversion process and shall have a written plan for dealing with its failure, in order to minimise any adverse effects.
16. Torfaen County Borough Council shall be advised at least 7 days in advance of any periodic monitoring exercise to determine compliance with emission limit values set out in condition 5 above. In particular, the Council shall be informed about the provisional time and date of monitoring, the pollutants to be tested and the methods to be used.
17. The results of non-continuous emission testing shall be forwarded to Torfaen County Borough Council within 8 weeks of the completion of sampling.
18. Adverse results from any monitoring activity (both continuous and non-continuous) shall be investigated by the operator as soon as the monitoring data has been received/obtained. The operator shall:
  - identify the cause and take corrective action
  - record as much detail as possible regarding the cause and extent of the problem, and the action taken by the operator to rectify the situation
  - re-test to demonstrate compliance as soon as possible: and
  - notify Torfaen County Borough Council

## **Abnormal Events**

19. In the case of malfunction or breakdown leading to abnormal emissions the operator shall:
  - Investigate and undertake remedial action immediately
  - Adjust the process or activity to minimise those emissions; and
  - Promptly record the events and the action taken
20. Where overnight working is being carried on, the operator shall ensure that there is a fully trained staff member on duty to take appropriate action in the event of a malfunction or breakdown leading to abnormal emissions.
21. Torfaen County Borough Council shall be informed without delay:

- If there is an emission that is likely to have an effect on the local community; or
- In the event of the failure of key abatement plant

### **Continuous Monitoring**

22. All continuous monitoring readings such as temperature readings, shall be on display to appropriately trained operating staff.
23. Instruments shall be fitted with audible and visual alarms, situated appropriately to warn the operator of abatement plant failure or malfunction
24. The activation of alarms shall be automatically recorded
25. All continuous monitors shall be operated, maintained and calibrated (or referenced) in accordance with the manufacturers' instructions, which shall be made available for inspection by Torfaen County Borough Council. The relevant maintenance and calibration (or referencing) shall be recorded.
26. Purchasers of new or replacement monitoring equipment shall specify the requirement for less than 5% downtime over any 3 month period, on ordering.

### **Calibration and Compliance Monitoring**

27. Non-continuous monitoring of the pollutants detailed in condition 5. above shall be carried out at least once a year.
28. No results shall exceed the emission concentration limits specified in Condition 5 above.
29. For the periodic monitoring of VOCs, at least three readings must be obtained during each measurement exercise. VOC emission limit values shall be considered to be complied with if, in one monitoring exercise:
  - a) the average of all the readings does not exceed the emission limit values in condition 5 above
  - b) none of the hourly averages exceeds the emission limit value by more than a factor of 1.5
30. Calibration and compliance monitoring for all substances shall be carried out using the methods detailed in Condition 5 above.

## **Varying Monitoring Frequency**

36. Consistent compliance shall be demonstrated using the results from:
  - Three or more monitoring exercises carried out within two years; or
  - Two or more monitoring exercises in one year supported by continuous monitoring
37. Any significant process changes which might have affected the monitored emissions shall be taken into account

## **Sampling Provisions**

38. The operator shall ensure that adequate safe facilities for sampling are provided on stacks or ducts
39. Sampling points on new plant shall be designed to comply with the British standard of equivalent standards.

## **Fugitive Emissions - Control of Particulate Matter**

40. All dusty or potentially dusty materials shall be stored in silos, in confined storage areas within buildings, or in fully enclosed containers/packaging. Where the storage is open within the building, then suitable precautions shall be taken to prevent wind whipping.
41. Dusty wastes shall be stored in closed containers and handled in a manner that avoids emissions.
42. When delivery to a silo or bulk storage tank takes place, displaced air shall either be vented to suitable arrestment plant or back-vented to the delivery tanker in order to minimise emissions. Arrestment plant fitted to silos must be of sufficient size and kept clean to avoid pressurisation during delivery.
43. In order that the fugitive emissions are minimised during the charging of silos, transfer lines shall be securely connected to the silo delivery inlet point and the tanker discharge point, in that order. Tanker drivers shall be informed of the correct procedures to be followed.
44. If emissions of particulate matter are visible from ducting, pipe work, pressure relief valves or dust arrestment plant during silo filling, the operation shall cease and the cause of the problem shall be rectified prior to further deliveries taking place.
45. Seating of pressure relief valves on silos shall be checked at least once per week, or before delivery takes place, whichever is the longer interval.

46. Deliveries to silos from road vehicles shall only be made using tankers with an on-board (truck mounted) relief valve and filtration system. This means that ventilating air from the tanker at the end of the delivery will not take place through the silo. The use of alternative techniques may be acceptable to Torfaen County Borough Council providing they achieve an equivalent level of control with regard to potential for emissions to air.
47. The use of dusting, supporting and 'anti-tack' powders shall be minimised and emissions produced shall be adequately contained.
48. The automatic mechanical discharge of residues collected by particulate matter arrestment equipment shall be continuously indicatively monitored to detect blockage. The monitor shall be fitted with a visual and audible alarm which shall activate in the event of outlet blockage.
49. Internal transport of dusty materials shall be carried out so as to prevent or minimise airborne dust emissions.
50. All spillages shall be cleared as soon as possible; solids by vacuum cleaning, wet methods, or other appropriate techniques.
51. Dry sweeping of dusty materials is not permitted.
52. A high standard of housekeeping shall be maintained at all times.

### **Fugitive Emissions - Control of VOCs**

53. All potentially odorous waste materials shall be stored in suitable closed containers or bulk storage vessels, where appropriate, vented to abatement plant.
54. Delivery connection to bulk storage tanks shall be located within a bunded area.
55. All fixed storage tanks shall be fitted with high level alarms or volume indicators to warn of over filling. Where practicable the filling systems shall be interlocked to the alarm system to prevent overfilling.
56. Bunding shall:
  - Completely surround the bulk liquid storage tanks
  - Be impervious and resistant to the liquids in storage; and
  - Be capable of holding 110% of the capacity of the largest storage tank
57. Raw materials containing VOC shall be stored in closed containers.

58. All measures shall be taken to minimise VOC emissions during mixing. Closed or covered mixing vessels shall be used to achieve this requirement.
59. Emissions from the emptying of mixing vessels and transfer of materials shall be adequately contained, preferably of the use of closed transfer systems.
60. Cleaning operations involving organic solvents shall be reviewed at least once every two years to identify opportunities for reducing VOC emissions. Torfaen County Borough Council shall be provided with a report on the conclusions of the review within 8 weeks of production.
61. A programme to monitor and record the consumption of organic solvents against product produced shall be used to minimise the amount of excess organic solvent used.
62. All reasonable practicable efforts shall be made to minimise the amount of residual organic solvent bearing material left in drums and other containers after use. All organic solvent contaminated waste shall be stored in closed containers.
63. Prior to disposal, empty drums and containers contaminated with organic solvent shall be closed to minimise emissions from residues during storage prior to disposal and labelled, so that all that handle them are aware of their contents and hazardous properties.
64. Nominally empty drums or drums containing waste contaminated with VOC awaiting disposal, shall be stored in accordance with the requirements for full or new containers.
65. Prior to disposal used wipes and other items contaminated with organic solvent shall be placed in a suitably labelled metal bin fitted with a self-closing lid.
66. For materials that may undergo spontaneous combustion, special bins that allow air to circulate beneath and around them to aid cooling, are advised or other bins specifically designed for this purpose.
67. Suitable organic solvent containment and spillage equipment shall be readily available in all organic solvent handling areas.
68. A high standard of housekeeping shall be maintained at all times.



## **Stacks, Vents and Process Exhausts**

69. Adequate insulation shall be provided to minimise the cooling of waste gases and prevent liquid condensation by keeping the temperature of the exhaust gases above the dew point.
70. Stacks and ductwork shall be cleaned to prevent accumulation of materials as part of the routine maintenance programme.
71. Exhaust gases discharged through all stacks associated with the rubber conversion process shall achieve a minimum discharge velocity of 15m/sec in order to prevent the discharged plume being affected by aerodynamic down wash.
72. Stacks or vents shall not be fitted with any restriction at the final opening such as a plate, cap or cowl, with the exception of an accelerator cone which may be necessary to increase the exit velocity of the emissions.

## **Management Techniques**

73. Spares and consumables, in particular those subject to continual wear, should be held on site, or should be available within 48 hours from guaranteed suppliers, so that plant breakdowns can be rectified rapidly. To facilitate this, an audited list of essential items shall be held on site and maintained by the operator.

## **Training**

74. Staff at all levels shall receive formal training and instruction in their duties relating to control of the installation and emissions to air. Particular emphasis shall be given to training for start-up, shut down and abnormal conditions according to the manufacturer's instructions to avoid unacceptable emissions.
75. Training of all staff with responsibility for operating the rubber conversion processes shall include:
  - Awareness of their responsibilities under this permit; in particular how to deal with conditions likely to give rise to VOC emissions, such as in the event of spillage.
  - Minimising emissions on start up and shut down
  - Action to minimise emissions during abnormal conditions
76. 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 shall be made available to authorised officers of Torfaen County Borough Council on request.

## **Maintenance**

77. Effective preventative maintenance shall 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 shall be provided to Torfaen County Borough Council with respect to pollution control equipment; and
  - A record of such maintenance shall be made available for inspection by Torfaen County Borough Council
- 

**END OF PERMIT CONDITIONS**

## References

1. The Secretary of States Guidance PG 6/28 (04). 'Rubber' Department for Environment Food and Rural Affairs October 2004.  
<http://archive.defra.gov.uk/environment/quality/pollution/ppc/localauth/pubs/guidance/notes/pgnotes/documents/pg6-28.pdf>
2. The Secretary of State's 'General Guidance Manual on Policy and Procedures for A2 and B Installations. 2012  
<http://www.defra.gov.uk/publications/files/env-permitting-general-guidance-a.pdf>
3. The Environmental Permitting (England and Wales) Regulations 2010, SI No. 675.  
[http://www.legislation.gov.uk/uksi/2010/675/pdfs/uksi\\_20100675\\_en.pdf](http://www.legislation.gov.uk/uksi/2010/675/pdfs/uksi_20100675_en.pdf)
4. The Environmental Permitting (England and Wales) (Amendment) Regulations 2012, SI No 2012 630.  
[http://www.legislation.gov.uk/uksi/2012/630/pdfs/uksi\\_20120630\\_en.pdf](http://www.legislation.gov.uk/uksi/2012/630/pdfs/uksi_20120630_en.pdf)

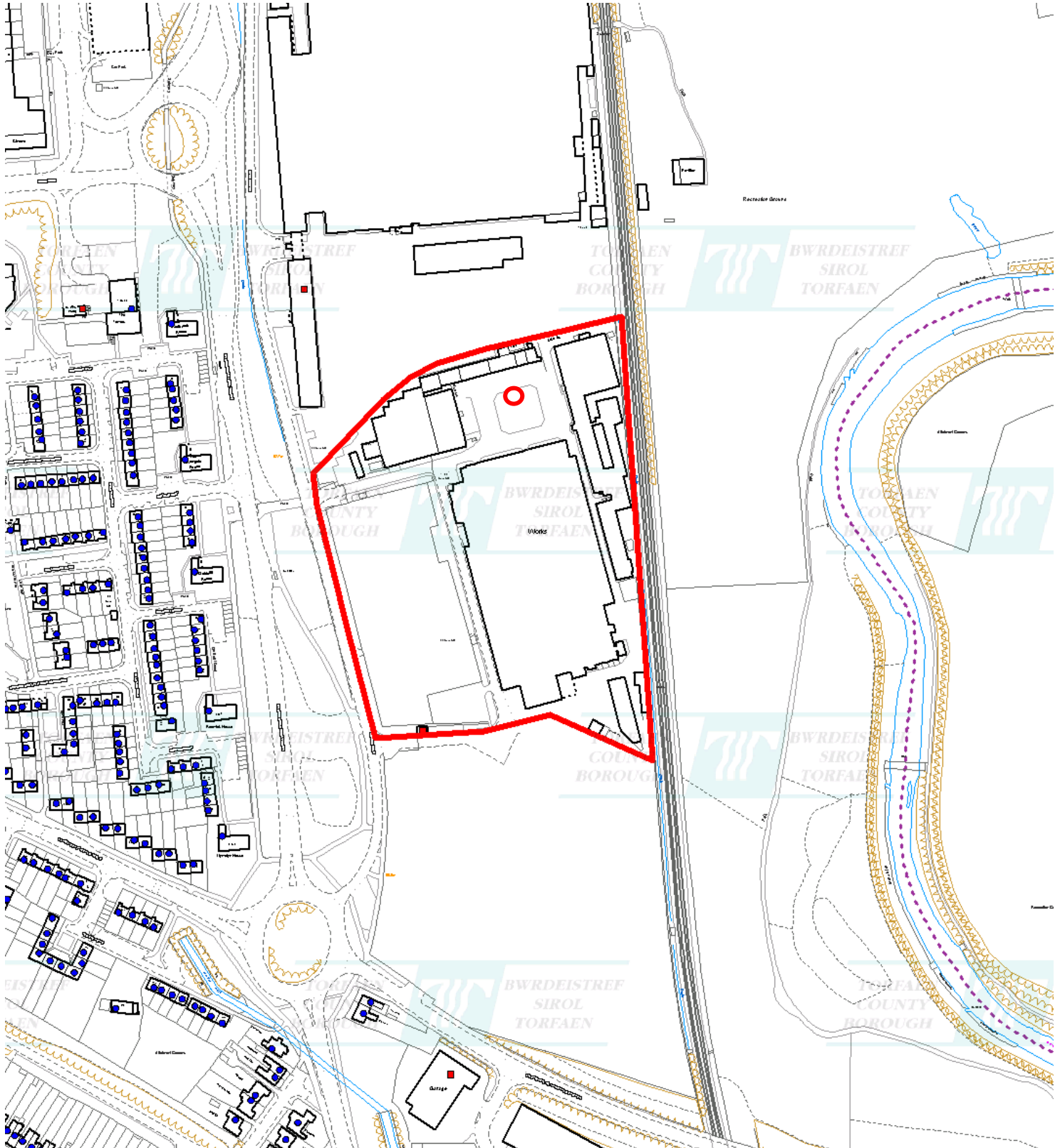
## APPENDIX 1 - Definitions

“Regulator”	Torfaen County Borough Council, Planning and Public protection Department
“Operator”	Crane Process Flow Technologies Ltd.
“Installation”	A stationary technical unit where one or more of the activities listed in Part 2 of Schedule 1 to the Environmental Permitting (England & Wales) Regulations 2010 are carried out, and, any other location on the same site where any other directly associated and technically connected activities are carried out which could have an effect on pollution.
“Activity”	An activity listed in Part 2 of Schedule 1 to the Environmental Permitting (England & Wales) Regulations 2010 and any other directly associated activity with a technical connection to the stationary technical unit which could have an effect on pollution.
“Pollution”	Emissions to air arising as a result of human activity which may be harmful to human health or the quality of the environment, cause offence to any human senses, result in damage to material property or impair or interfere with amenities and other legitimate uses of the environment.
“Pollutant”	Any substance or heat released to air as a consequence of a pollution event.
“Air”	Includes air within buildings and air within any other natural or man made structures above and below ground.
“Colourless”	Shall not be taken to mean white, grey or black emissions.
“Fume”	Particulate matter of less than 1 micron diameter, vapours and aerosols of colloidal particles that are visible, but excludes steam.
“Droplets”	Liquid fractions (larger than mist or fume), which are released from the rim of a stack or vent and precipitate from the emission plume within the locality of the emission source.
“Abnormal Emissions”	Any atmospheric emission outside the normal range of the installation when operating under routine conditions.
“Significant Emissions”	Any atmospheric emission visible more than 10 metres from the source
“Ringelmann Shade 1”	The meaning contained within British Standard BS2472: 1969
“Persistent”	A continuous or frequent emission or an emission remaining in the local environment as a consequence of poor dispersion.
“Inspection”	The physical examination of the installation and any associated records (written and electronic format), to assess compliance in respect of the permit.
“Monitoring”	A mechanism for assessing the performance of the process primarily from the volume and nature of the emissions in order to assess compliance with specified emission limit values contained within the permit.
“Visual Assessment”	A programme of routine visual observations and subsequent evaluation of the character of the emission
“Olfactory Assessment”	A routine programme of observation of any odour produced as a result of the process and subsequent identification of its cause if possible.
“Authorised Officer”	An officer authorised by Torfaen County Borough Council to implement the provisions of the Environmental Permitting (England & Wales) Regulations 2010

## APPENDIX 2 - Site Plan

The activities authorised under the conditions in Table 1 (Page 8) shall not extend beyond the Site, being the area shown edged in red on the plan below.

○ is the location for visible emissions monitoring.



### APPENDIX 3 – Emission Points

