Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Meggitt (UK) Limited

Langley Drive Chemical Machinists
Unit 8
Langley Drive
Castle Bromwich
Birmingham
B35 7AD

Variation application number

EPR/PP3939NP/V004

Consolidated permit number

EPR/PP3939NP

Langley Drive Chemical Machinists

Permit number EPR/PP3939NP

Introductory note

This introductory note does not form a part of the notice.

The following notice gives notice of the variation of environmental permit referred to in the status logs below and the replacement of those permits with a consolidated environmental permit.

The variation changes are in summary as follows:

- Activities Table S1.1 updated to add on-site effluent treatment scheduled activity Section 5.3 A) (1) (a) (ii); this activity existed prior to this variation and its addition here is to correct a previous omission.
- Table S1.2 Operating Techniques updated to reflect variation changes including
  - Updated effluent treatment facility (including additional settling tank, new re-circulation tank, new calcium di-hydroxide storage tank, relocation of 2 cooling towers and relocation of filter cake press).
  - New chlorine scrubber for existing A2 emission (caustic based) in order to optimise chlorine abatement linked to abnormal emissions from chlorine room.
  - Complete replacement of chlorine system (like for like but to adhere to HSE guidance HSG28 and BAT indicative measures).
  - 'V' notch position to be moved from right hand side of building (when viewed from Langley Drive) to left hand to minimise lengths of sewer discharge.

- Table S3.2 updated to reflect nickel and chromium monitoring changed from spot sampling to 24 hour composite sampling and 0.5 mg/l emission limit values changed from spot sampling to 24 hour composite sampling. Effluent monitoring requirements limited to principal parameters nickel and chromium.
- Table S4.1 Reporting Table updated to reflect above monitoring changes.

Overall the chemical etching process capacity is unchanged with this variation and there are no changes to the installation boundary.

Installation

The main schedule activity for this installation is a chemical activity as follows:

- Section 4.2 A (1) (b) –

"(b) Unless falling within another Section of this Schedule, any manufacturing activity which uses, or which is likely to result in the release into the air or into water of, any halogens, hydrogen halides or any of the compounds mentioned in paragraph (a)(vi), other than the treatment of water by chlorine."

The on-site effluent treatment facility has a treatment capacity of 260 m^3/day. This is a Section 5.3 A (1) (a) (ii) activity as follows:

a) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving one or more of the following activities

(ii) physico-chemical treatment;

The installation included the following directly associated activities:

- Storage and handling of raw materials and waste materials.
- Control and abatement systems for emissions to air and releases to sewer.
- Utilities and services.

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

A non-technical description of the Permitted Installation is given in the Application, but the main features of the Permitted Installation are as follows.

Introduction

The installation undertakes chemical etching of metal sheets by selectively removing metal using an etching solution. Chlorine is introduced at the etching stage of the process. Chlorine is used to regenerate ferrous chloride. Hydrochloric acid is also used to remove a build-up of deposits from the inside of etching machines. The etching process has a maximum capacity based on the chlorine usage of a maximum of **700 tonnes per annum**.

The emissions from the process are to air and sewer. There are no direct discharges to land and no emissions to controlled waters.There are no Sites of Specific Scientific Interest (SSSI) within 2 km of the installation and no European Sites within 10 km. There are eleven other conservation sites within the relevant 2 km screening distance. The operator has entered the Climate Change Rebate Levy Scheme to enhance energy efficiency on site.

The site has an Environmental Management System (EMS) which is externally audited and certified to ISO 14001.

Preparation

Sheets of metal to be etched are prepared by cleaning and a resistive layer applied to the surface so that only the areas that require to be removed are exposed to the ferric chloride etching solution.

Ferric chloride

The site does not take delivery of ferric chloride as all ferric chloride for metal etching is regenerated from ferrous chloride on site. A ferric chloride dump tank receives ferric chloride through pipe work feeding directly from the etching machines. This tank feeds into a bunded ferric chloride holding tank. There is an overflow from the holding tank linked to waste tanks to take off excess ferric chloride produced by the process.

Etching

Etch machines comprise of a series of enclosed chambers made from PVC and titanium. Through the centre of the machines is a bed of rollers which transport the metal components through the process. The components are laid flat and sprayed with etching solution from above and below. When the etching solution is not in use it remains in the machine sump. When in use the etching solution is heated and pumped to the spray heads. The ferric chloride etching medium reduces to ferrous chloride during the process. Hydrochloric acid is used to remove the build up of deposits from the inside of the etching machines and can also be used to adjust the free acid levels in the etching solution.

Stripping

Having had areas etched, the metal item is passed to the stripping department to have the protective resistance film removed. Different chemical treatments are applied depending on the photo resistance and the metal type for the component. In the hand-stripping (caustic soda) process, metal sheets are placed in a tray of caustic soda. The resist film starts to break down and to lift from the sheets. Sheets then go through various rinses and may be dipped in isopropyl alcohol (IPA). IPA is removed from the surface by blotting and wiping dry. A similar procedure is followed with the hand-stripping (MD Cu Stripper) process.

With machine stripping, the metal sheets are passed through a modified etch machine containing sodium hydroxide solution heated to 45-55°C. Metal components are sprayed with the solution to remove the photo resistance.

Regeneration of ferric chloride using chlorine

Chlorine gas, stored as liquid chlorine, is used to regenerate ferrous chloride back to ferric chloride. The liquid chlorine is drawn off a self-contained drum through an evaporator and reduced in pressure by an electro hydraulically activated failsafe valve to a vacuum regulator. Gaseous chlorine is dispensed to the regeneration process as required by a redox probe which senses the requirement and opens a valve that allows chlorine to be drawn into the regeneration equipment by a venturi effect. This system ensures that excess chlorine is not admitted to the equipment and ensures no loss of chlorine in the event of equipment failure.

Wet scrubbing

The point source emissions from the etching machines are constantly vented through a wet scrubber (A1 emission). Emissions of chlorine to air are absorbed and hydrochloric acid is given off. Waste water is directed to the on-site effluent treatment plant. A dedicated caustic scrubber is fitted to abate any abnormal or emergency escapes of chlorine gas (A2 emission). This will convert chlorine gas to sodium hypochlorite in the event of a leak.

Effluent Treatment

All waste liquids from the process and any spillages in the storage or process areas are transferred to an onsite effluent treatment plant. Acidic and alkali waste effluent is dosed with sodium hydroxide or hydrochloric acid, respectively.

Treated liquid is transferred to a settling tank where metal hydroxides precipitate out and sink to the bottom as a sludge. The treated effluent passes over the top of the settling tank and flows to the foul drain via a final drain tank where pH is monitored. The sludge at the bottom of the settling tank is drawn off and passes through a caking press to separate water from the sludge. The resultant cake is sent to a skip and the water returned to the treatment tank. Alarms are fitted to identify any potential problems and to monitor water discharged to sewer to ensure compliance with the permitted emission limit values.

The schedules specify the changes made to the permit.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

Status log of permit		
Description	**Date**	**Comments**
Application BW1025IN (EPR/BW1025IN/A001)	Duly made 13/01/05	Application for chemical machining and etching of metal components facility
Additional information received	04/05/05	
Additional information received	21/07/05	
Additional information received	25/07/05	
Permit determined EPR/BW1025IN	09/09/05	Original permit issued to Precision Micro Limited
Application EPR/PP3939NP/T001 (full transfer of permit EPR/BW1025IN)	Duly made 03/05/13	Application to transfer permit in full from Precision Micro Limited to Meggitt (UK) Limited.
Transfer determined EPR/PP3939NP	16/05/13	Full transfer of permit complete
Variation Application EPR/PP3939NP/V002.	Date received 06/01/15	Application returned not duly made
Variation Application EPR/PP3939NP/V003	Date received 05/03/15	Application returned not duly made
Variation Application EPR/PP3939NP/V004 (variation and consolidation)	Duly made 07/08/15	Application to vary and update the permit to modern conditions.
Schedule 5 response dated 14/08/15	07/10/15	
Variation EPR/PP3939NP/V004 determined [Billing Reference DP3036AQ]	22/10/15	Varied and consolidated permit issued in modern condition format.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulations 18 and 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies and consolidates environmental permits

Permit numbers

EPR/PP3939NP

Issued to

Meggitt (UK) Limited ("the operator")

whose registered office is

Atlantic House
Atlantic Park West
Bournemouth International Airport
Christchurch
Dorset
BH23 6EW

company registration number **00629814**

to operate a regulated facility at

Langley Drive Chemical Machinists
Unit 8
Langley Drive
Castle Bromwich
Birmingham
B35 7AD

to the extent set out in the schedules.

The notice shall take effect from 22/10/2015

The number of the consolidated permit is EPR/PP3939NP

Name	Date
Anne Nightingale	**22/10/2015**

Authorised on behalf of the Environment Agency

Schedule 1 – changes in the permit

All conditions have been varied by the consolidated permit as a result of the application made by the operator.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/PP3939NP

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/PP3939NP/V004 authorising,

Meggitt (UK) Limited ("the operator"),

whose registered office is

Atlantic House
Atlantic Park West
Bournemouth International Airport
Christchurch
Dorset
BH23 6EW

company registration number **00629814**

Langley Drive Chemical Machinists
Unit 8
Langley Drive
Castle Bromwich
Birmingham
B35 7AD

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

Name	Date
Anne NIghtingale	**22/10/2015**

Authorised on behalf of the Environment Agency

1 Management

1.1 General management

1.1.1 The operator shall manage and operate the activities:

(a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances and those drawn to the attention of the operator as a result of complaints; and

(b) using sufficient competent persons and resources.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

1.2 Energy efficiency

1.2.1 The operator shall:

(a) take appropriate measures to ensure that energy is used efficiently in the activities;

(b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and

(c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

1.3.1 The operator shall:

(a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;

(b) maintain records of raw materials and water used in the activities;

(c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and

(d) take any further appropriate measures identified by a review.

1.4 Avoidance, recovery and disposal of wastes produced by the activities

1.4.1 The operator shall take appropriate measures to ensure that:

(a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities;

(b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and

(c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the "activities").

2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.

2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation ("plan") specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.

2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.

2.3.4 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:

(a) the nature of the process producing the waste;

(b) the composition of the waste;

(c) the handling requirements of the waste;

(d) the hazardous property associated with the waste, if applicable; and

(e) the waste code of the waste.

2.3.5 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

2.4 Improvement programme

2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.

2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

3 Emissions and monitoring

3.1 Emissions to water, air or land

3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1 and S3.2.

3.1.2 The limits given in schedule 3 shall not be exceeded.

3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.

3.2.2 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.

3.3.2 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;

(b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.4 Noise and vibration

3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

3.4.2 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;

(b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:

(a) point source emissions specified in tables S3.1 and S3.2;

3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.

3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.3.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1 and S3.2 unless otherwise agreed in writing by the Environment Agency.

4 Information

4.1 Records

4.1.1 All records required to be made by this permit shall:

(a) be legible;

(b) be made as soon as reasonably practicable;

(c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and

(d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:

(i) off-site environmental effects; and

(ii) matters which affect the condition of the land and groundwater.

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.

4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:

(a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;

(b) the annual production/treatment data set out in schedule 4 table S4.2; and

(c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.

4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:

(a) in respect of the parameters and emission points specified in schedule 4 table S4.1;

(b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4.

(c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

4.3 Notifications

4.3.1 In the event:

(a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—

(i) inform the Environment Agency,

(ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and

(iii) take the measures necessary to prevent further possible incidents or accidents;

(b) of a breach of any permit condition the operator must immediately—

(i) inform the Environment Agency, and

(ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;

(c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

(a) any change in the operator's trading name, registered name or registered office address; and

(b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

(c) any change in the operator's name or address; and

(d) any steps taken with a view to the dissolution of the operator.

In any other case:

(e) the death of any of the named operators (where the operator consists of more than one named individual);

(f) any change in the operator's name(s) or address(es); and

(g) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

(a) the Environment Agency shall be notified at least 14 days before making the change; and

(b) the notification shall contain a description of the proposed change in operation.

4.3.6 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.

4.3.7 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:

(a) a decision by the Secretary of State not to re-certify the agreement;

(b) a decision by either the operator or the Secretary of State to terminate the agreement; and

(c) any subsequent decision by the Secretary of State to re-certify such an agreement.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "without delay", in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities		
Activity listed in Schedule 1 of the EP Regulations	**Description of specified activity and WFD Annex I and II operations**	**Limits of specified activity**
Section 4.2 A (1) (b) – (b) Unless falling within another Section of this Schedule, any manufacturing activity which uses, or which is likely to result in the release into the air or into water of, any halogens, hydrogen halides or any of the compounds mentioned in paragraph (a)(vi), other than the treatment of water by chlorine.	Chemical machining and etching of metal components	Receipt of raw materials Preparation of metal components, Preparation and maintenance of etching solutions. Operation of etching machines Removal of etching mask. Application of final finishes storage and despatch of finished product.
Section 5.3 A (1) (a) (ii) – (a) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving one or more of the following activities (ii) physico-chemical treatment;	On site effluent treatment plant (D9).	Receipt of effluent to discharge to Severn Trent sewer system.
Directly Associated Activity	Storage and handling of raw materials.	Raw materials associated with chemical machining and etching and also ancillary activities.
Directly Associated Activity	Storage and handling of waste materials.	Waste materials associated with chemical machining and etching and also ancillary activities.
Directly Associated Activity	Abatement systems for controlling emission levels.	Control of emissions from the Installation.
Directly Associated Activity	Operation of the site systems for the supply of utilities and services.	Site utility and service systems as far as the installation boundary.

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Application BW1025IN (EPR/BW1025IN/A001)	The response to questions 2.1 and 2.2 given in sections 2.1 pages 1-10 and 2.2 pages 1-11 of the application.	17/12/04
Variation Application EPR/PP3939NP/V004 (variation and consolidation)	Application form C3 responses to questions 3 plus application supporting information and duly making responses.	Duly made 07/08/15
Schedule 5 dated 14/08/15 response	All.	07/10/15

Table S1.3 Improvement programme requirements		
Reference	**Requirement**	**Date**
IP1	-	Complete
IP2	-	Complete
IP3	-	Complete
IP4	-	Complete
IP5	-	Complete
IP6	-	Complete

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	**Specification**
-	-

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	**Parameter**	**Source**	**Limit (incl. unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
A1 as location on emission location plan in schedule 7	Particulates	Process Stack	20 mg/m^3	1 hour	Annual	BS EN 13284-1
A1 as location on emission location plan in schedule 7	Chlorine	Process Stack	10 mg/m^3	1 hour	Annual	USA EPA 26
A1 as location on emission location plan in schedule 7	Hydrogen Chloride	Process Stack	10 mg/m^3	1 hour	Annual	BS EN 1911
A2 as location on emission location plan in schedule 7	No parameters set	Chlorine Room Scrubber Stack	-	-	-	-

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site – emission limits and monitoring requirements.						
Emission point ref. & location	**Parameter**	**Source**	**Limit (incl. unit)**	**Reference Period**	**Monitoring frequency**	**Monitoring standard or method**
S1 as location on emission location plan in schedule 7	Total Chromium	Effluent treatment plant discharge	0.5 mg/l	24 hour composite sample	Six monthly	SCA Blue Book 163
S1 as location on emission location plan in schedule 7	Nickel	Effluent treatment plant discharge	0.5 mg/l	24 hour composite sample	Six monthly	SCA Blue Book 163

Schedule 4 – Reporting

Table S4.1 Reporting of monitoring data			
Parameter	**Emission or monitoring point/reference**	**Reporting period**	**Period begins**
Atmospheric emissions	A1	Annual	01/01/06
Sewer emissions	S1	Six monthly	22/10/15

Table S4.2 Annual production/treatment	
Parameter	**Units**
Site production of product	tonnes

Table S4.3 Performance parameters		
Parameter	**Frequency of assessment**	**Units**
Water usage	Annually	tonnes
Energy usage	Annually	MWh
Waste Disposal Tonnage	Annually	tonnes

Table S4.4 Reporting forms		
Media/parameter	**Reporting format**	**Date of form**
Air	Form A1 or other form as agreed in writing by the Environment Agency	10/08/05
Sewer	Form S1 or other form as agreed in writing by the Environment Agency	22/10/15
Water usage	Form WU1 or other form as agreed in writing by the Environment Agency	10/08/05
Waste return	Form R1 or other form as agreed in writing by the Environment Agency	22/10/15
Energy usage	Form E1 or other form as agreed in writing by the Environment Agency	10/08/05
Other performance indicators	Form PI1 or other form as agreed in writing by the Environment Agency	10/08/05

Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A – To be notified immediately

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment	
To be notified Immediately	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a permit condition	
To be notified immediately	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	**Notification period**
In the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment:	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B - to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
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	

The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

"accident" means an accident that may result in pollution.

"application" means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

"authorised officer" means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

"emissions to land" includes emissions to groundwater.

"EP Regulations" means The Environmental Permitting (England and Wales) Regulations SI 2010 No. 675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

"emissions of substances not controlled by emission limits" means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission or background concentration limit.

"groundwater" means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

"*Hazardous property*" has the meaning in Annex lll of the Waste Framework Directive

"*Hazardous waste*" has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005 (as amended).

"Industrial Emissions Directive" means Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions.

"*List of Wastes*" means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended from time to time.

"MCERTS" means the Environment Agency's Monitoring Certification Scheme.

"quarter" means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

"recovery" means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"*Waste code*" means the six digit code referable to a type of waste in accordance with the List of Wastes and in relation to hazardous waste, includes the asterisk.

"Waste Framework Directive" or *"WFD"* means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste.

"year" means calendar year ending 31 December.

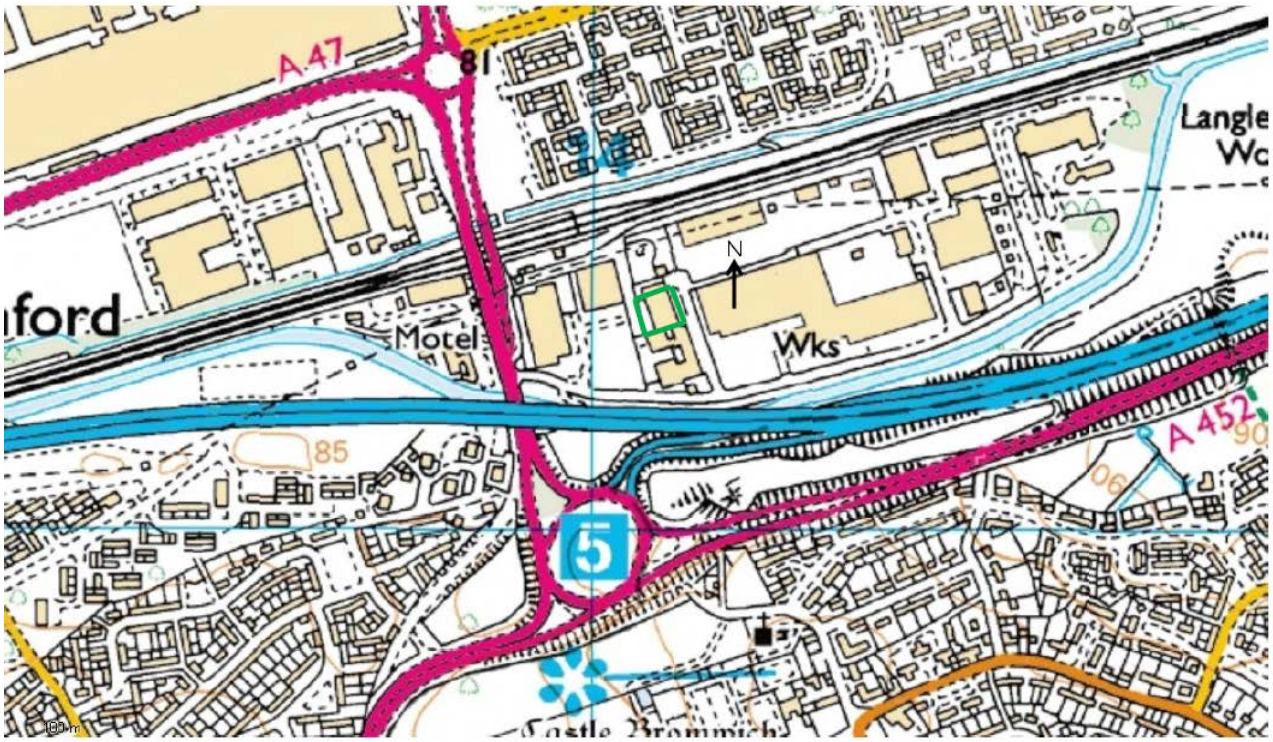
Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or

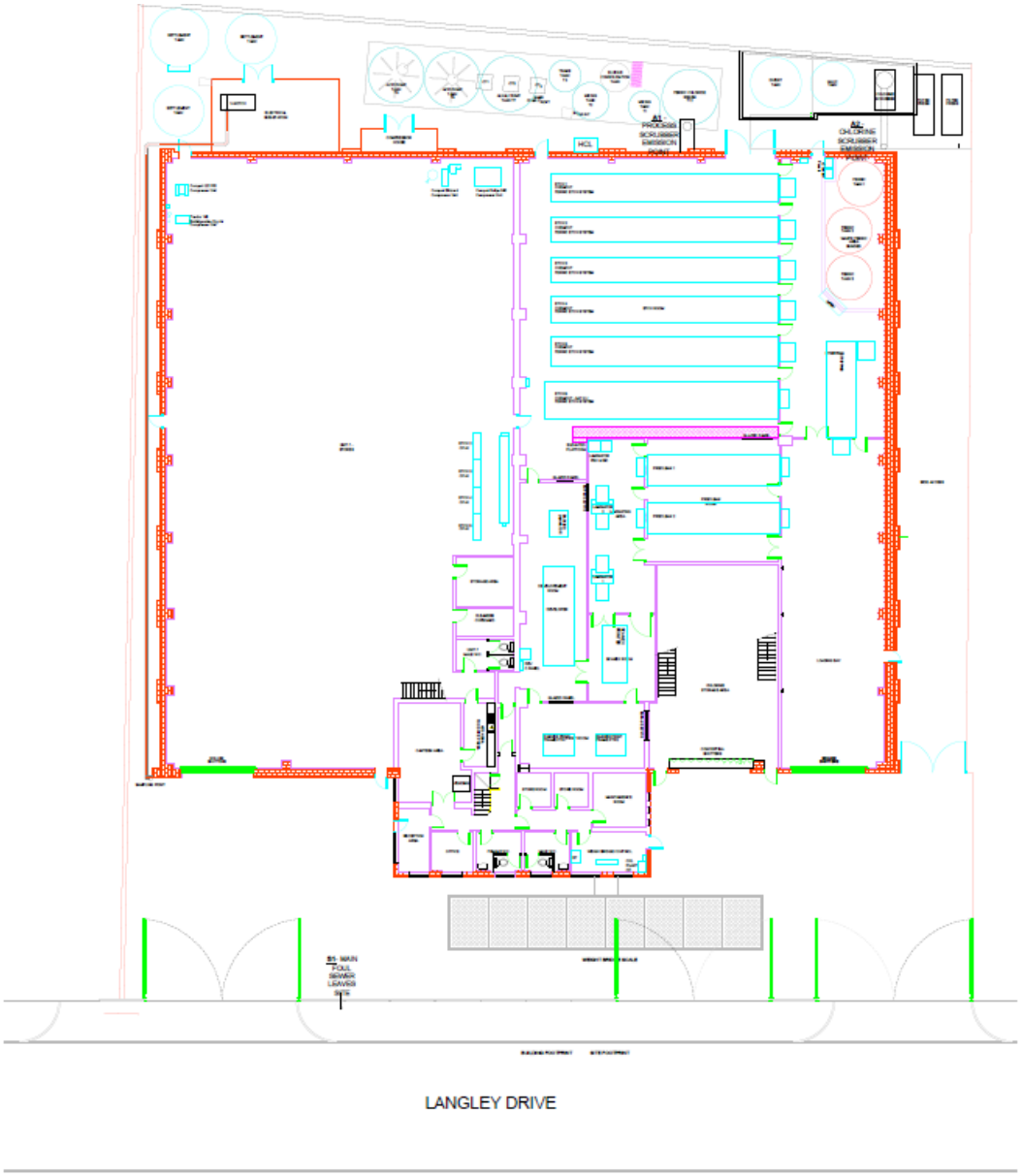
in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

Schedule 7 – Site plan

Site location plan is as follows:



Site plan with emission point locations is as follows:



END OF NOTICE