



**ENVIRONMENT
AGENCY**

Permit with introductory note

Pollution Prevention and Control (England & Wales) Regulations 2000

Deeside Packaging Coatings

Valspar (UK) Corporation Limited
Parkway
Deeside Industrial Park
Deeside
CH5 2NN

Permit number

BU7545IM

DEESIDE PACKAGING COATINGS

Permit Number BU7545IM

Introductory note

This introductory note does not form a part of the permit

The main features of the installation are as follows:

The Deeside Packaging Coatings facility occupies a 9acre site on the Deeside Industrial Park, to the north-west of Chester as is bordered on all four sides by neighbouring industrial premises. Deeside Packaging Coatings is part of The Valspar Corporation based in Minneapolis, USA.

Valspar is an existing installation and was previously regulated under the IPC regime (for Part A and Part B processes). Releases from the process are not new or substantially changed apart from a recent addition of a scrubber unit to reduce emissions to air. The process consists of the production of organic chemicals such as plastic materials, polymers, synthetic fibres and cellulose-based fibres under Schedule 1, Part 1, Section 4.1 Part A (a) (viii), and Section 6.5 Part B (a) (i.) the manufacture of dyestuffs, printing ink and coating materials. There are no emissions to controlled waters.

The Deeside Packaging Coatings installation manufactures resins and paints for coating applications, for rigid containers and closures primarily for the food and drink industry. For example, two-piece beer and beverage cans, food cans and glass container closures. Currently the Deeside installation can be divided into two distinct activities with associated activities; resin and paint manufacture.

In the resin plant epoxy resin is gravity fed from the heated bulk tanks to a heated weigh tank and into the reactor where two catalysts are added and heated. A water blanket controls the exothermic reaction. This is termed the epoxy upgrade. From this point the batch is modified to become either solvent or water-based epoxy resins.

To manufacture solvent-based epoxy resins the batch receives the addition of carboxylic acid and an amine catalyst, followed by the addition of solvents for dilution before being transferred to let down tanks, then drums or IBCs.

The water based epoxy resins are manufactured by modifying the epoxy upgrade with vinyl monomers, then the addition of peroxide and/or a catalyst in the heated reactor. Water cooling and feed rate control the heat of the reaction. Once the reaction is complete the batch is fed into let down tanks, where these water based epoxies then go through an inversion process whereby water and an amine salt are added and mixed to form a quaternary salt. Hot and cold deionised water is then added to form an emulsion. The emulsion is then filtered and transferred to bulk storage or filtered into totes.

Lacquers and coatings containing organic solvents are manufactured within the paint plant. In the manufacture of water and solvent-based lacquers, the resins produced in the resin plant are mixed with organic solvent and water. A grinding mill is then used to reduce the particle size, which is then mixed with organic solvents until the required specification is achieved and filled into drums, totes or road tankers. For water and solvent based PVC free lacquers, the resins, organic solvents and water are mixed, tested, adjusted and filled into drums, totes or bulk tankers.

Liquid raw materials are supplied in bulk form and smaller drums and solid dry raw materials are delivered in bags. Raw materials are stored within a dedicated warehouse and also externally on the yard with drum storage in a drum compound on the yard. Liquid raw materials are fed into mixing vessels via a central manifold. Nitrogen blanketing controls displacement of air from tanks. Emissions to air are from 5 main stacks, all of which are abated except for general low quantity displacement ventilation. The main emission to air is ethyl acrylate, which is abated using a new scrubber.

The Operator's Environmental Management System is externally certified to ISO 14001 and the installation do not currently take part in a Climate Change Agreement (CCA).

The main emissions to air are volatile organic compounds and process effluent to sewer. There are no discharges to surface water other than rainwater.

Status Log of the permit

Detail	Date	Response Date
Application BU7545IM	Duly made 31/03/06	
Additional Information Received (Schedule 4)	19/10/06	24/11/06
Additional Information Received – chemical names, PRVs, dust extraction, cooling tower, drain release point information and trade effluent consent		12/03/07
Additional Information Received – Emission points to Atmosphere drawing		13/03/07
Additional Information Received – Table: Reconciliation of Emission Points to Atmosphere (PPC v IPC) & consent discharge map		14/03/07
Additional Information Received – Emission points to Water and Sewer		29/03/07
Permit determined	24/05/07	

Other PPC permits relating to this installation

Operator	Permit Number	Date of Issue
None	-	-

Superseded or Partially Superseded Licences/Authorisations/Consents relating to this installation

Holder	Reference Number	Date of Issue	Fully or Partially Superseded
Valspar (UK) Corporation Ltd*	BE7443 and all subsequent variations	25/05/99	Fully superseded
Valspar (UK) Corporation Ltd*	AK2181 and all subsequent variations	27/01/94	Fully superseded
Valspar (UK) Corporation Ltd*	PP0016	21/05/93	Fully superseded

*Formerly Dexter Packaging Products

Other existing Licences/Authorisations/Registrations relating to this site

Holder	Reference Number	Date of issue
None	-	-

End of Introductory Note

Permit

Pollution Prevention and Control
(England and Wales) Regulations 2000

Permit

Permit number
BU7545IM

The Environment Agency (the Agency) in exercise of its powers under Regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (SI 2000 No 1973) hereby authorises

The Valspar (UK) Corporation Limited ("the operator"),

whose registered office is
The Valspar (UK) Corporation Ltd
Station Lane
Witney
Oxfordshire
OX28 4XR

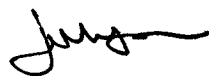
company registration number **3049772**

to operate an installation at
Parkway
Deeside Industrial Park
Deeside
CH5 2NN

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

Signed

Date



24th May 2007

J M Ingram

Authorised to sign on behalf of the Agency

Conditions

1 Management

1.1 General management

1.1.1 The activities shall be managed and operated:

- (a) in accordance with a management system, which identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents and non-conformances and those drawn to the attention of the operator as a result of complaints; and
- (b) by sufficient persons who are competent in respect of the responsibilities to be undertaken by them in connection with the operation of the activities.

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 Accidents that may cause pollution

1.2.1 The operator shall:

- (a) maintain and implement an accident management plan;
- (b) review and record at least every 4 years or as soon as practicable after an accident, (whichever is the earlier) whether changes to the plan should be made;
- (c) make any appropriate changes to the plan identified by a review.

1.3 Energy efficiency

1.3.1 The operator shall:

- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
- (b) review and record at least every 4 years whether there are suitable opportunities to improve the energy efficiency of the activities; and
- (c) take any further appropriate measures by a review.

1.4 Efficient use of raw materials

1.4.1 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 4 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 appropriate further measures identified by a review.

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

1.5.1 The operator shall:

- (a) take appropriate measures to ensure that waste produced by the activities is avoided or reduced, or where waste is produced it is recovered wherever practicable or otherwise disposed of in a manner which minimises its impact on the environment;
- (b) review and record at least every 4 years whether changes to those measures should be made; and
- (c) take any further appropriate measures identified by a review.

1.6 Site security

- 1.6.1 Site security measures shall prevent unauthorised access to the site, as far as practicable.

1.7 Multiple operator installations

- 1.7.1 No condition applies

2. Operations

2.1 Permitted activities

- 2.1.1 The operator is 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 red on the site plan at schedule 2 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 Agency.
- 2.3.2 No raw materials or fuels listed in schedule 3 table S3.1 shall be used unless they comply with the specifications set out in that table.

2.4 Off-site conditions

- 2.4.1 There are no off-site conditions under this section

2.5 Improvement programme

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

2.6 Pre-operational conditions

There are no pre-operational conditions in this permit.

2.7 Closure and decommissioning

- 2.7.1 The operator shall maintain and operate the activities so as to prevent or where that is not practicable, to minimise, any pollution risk on closure and decommissioning.
- 2.7.2 The operator shall maintain a site closure plan which demonstrates how the activities can be decommissioned to avoid any pollution risk and return the site to a satisfactory state.
- 2.7.3 The operator shall carry out and record a review of the site closure plan at least every 4 years.
- 2.7.4 The site closure plan (or relevant part thereof) shall be implemented on final cessation or decommissioning of the activities or part thereof.

2.8 Site protection and monitoring programme

- 2.8.1 The operator shall, within 2 months of the issue of this permit, submit a site protection and monitoring programme.
- 2.8.2 The operator shall implement and maintain the site protection and monitoring programme and shall carry out and record a review of it at least every 4 years.

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 4 tables S4.1, S4.2 and S4.3.
- 3.1.2 The limits given in schedule 4 shall not be exceeded.

3.2 Transfers off-site

- 3.2.1 Records of all the wastes sent off site from the activities, for either disposal or recovery, shall be maintained.

3.3 Fugitive emissions of substances

- 3.3.1 Fugitive emissions of substances (excluding odour, noise and vibration) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.3.2 No condition applies
- 3.3.3 No condition applies
- 3.3.4 All liquids, 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.

3.4 Odour

- 3.4.1 Emissions from the activities shall be free from odour at levels likely to cause annoyance outside the site, as perceived by an authorised officer of the Agency, unless the operator has used appropriate measures to prevent or where that is not practicable to minimise the odour.

3.5 Noise and vibration

- 3.5.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause annoyance outside the site, as perceived by an authorised officer of the Agency, unless the operator has used appropriate measures to prevent or where that is not practicable to minimise the noise and vibration.

3.6 Monitoring

- 3.6.1 The operator shall, unless otherwise agreed in writing by the Agency, undertake monitoring for the parameters, at the locations and at not less than the frequencies specified in the following tables in schedule 4 to this permit:
- (a) point source emissions specified in tables S4.1, S4.2 and S4.3
- 3.6.2 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.
- 3.6.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme specified in condition 3.6.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate) unless otherwise agreed in writing by the Agency.

- 3.6.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 4 tables S4.1, S4.2 and S4.3 unless otherwise specified in that schedule.
- 3.6.5 Within 6 months of the issue of this permit (unless otherwise agreed in writing by the Agency) the site reference data identified in the site protection and monitoring programme shall be collected and submitted to the 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 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) the site protection and monitoring programme.
- 4.1.2 Any records required to be made by this permit shall be supplied to the Agency within 14 days where the records have been requested in writing by the Agency.
- 4.1.3 All records required to be held by this permit shall be held on the site and shall be available for inspection by the Agency at any reasonable time.

4.2 Reporting

- 4.2.1 A report or reports on the performance of the activities over the previous year shall be submitted to the Agency by 31 January (or other date agreed in writing by the 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 this permit against the relevant assumptions, parameters and results in the assessment of the impact of the emissions submitted with the application;
 - (b) where the operator's management system encompasses annual improvement targets, a summary report of the previous year's progress against such targets;
 - (c) the annual production /treatment data set out in schedule 5 table S5.2;
 - (d) the performance parameters set out in schedule 5 table S5.3 using the forms specified in table S5.4 of that schedule; and
 - (e) details of any contamination or decontamination of the site which has occurred.
- 4.2.2 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the 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 5 table S5.1;
 - (b) for the reporting periods specified in schedule 5 table S5.1 and using the forms specified in schedule 5 table S5.4 ; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.3 No condition applies
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding 4 years, submit to the Agency, within 6 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.
- 4.2.5 All reports and notifications required by the permit shall be sent to the Agency using the contact details supplied in writing by the Agency
- 4.2.6 The results of reviews and any changes made to the site protection and monitoring programme shall be reported to the Agency, within 1 month of the review or change.

4.3 Notifications

- 4.3.1 The Agency shall be notified without delay following the detection of:
- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution;
 - (b) the breach of a limit specified in the permit;
 - (c) any significant adverse environmental effects.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 6 to this permit within the time period specified in that schedule.
- 4.3.3 Prior written notification shall be given to the Agency of the following events and in the specified timescales:
- (a) as soon as practicable prior to the permanent cessation of any of the activities;

- (b) cessation of operation of part or all of the activities for a period likely to exceed 1 year; and
 - (c) resumption of the operation of part or all of the activities after a cessation notified under (b) above.
- 4.3.4 The Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.
- 4.3.5 Where the 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 Agency when the relevant monitoring is to take place. The operator shall provide this information to the Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.6 No condition applies
- 4.3.7 No condition applies
- 4.3.8 No condition applies
- 4.3.9 The Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
 - (a) any change in the operator's trading name, registered name or registered office address;
 - (b) any change to particulars of the operator's ultimate holding company (including details of an ultimate holding company where an operator has become a subsidiary); and
 - (c) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Climate Change Agreement

- 4.3.10 Where the operator has entered into a climate change agreement with the Government, the 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 7 shall have the meaning given in that schedule.

Schedule 1 - Operations

Table S1.1 activities

Activity listed in Schedule 1 of the PPC Regulations	Description of specified activity	Limits of specified activity
S4.1 (a) (viii) Producing organic chemicals such as plastic materials, polymers, synthetic fibres and cellulose-based fibres	Manufacture of resins	From receipt of raw materials to transfer of products
S6.5 Part B (a) (i) Manufacturing or formulating printing ink or any other coating material containing, or involving the use of, an organic solvent, where carrying out the activity is likely to involve the use of 100 tonnes or more of organic solvents in any period of 12 months.	Manufacture of paints	From receipt of raw materials to despatch of products
S7 Part B Solvents Emissions (England and Wales) Regulations 2004. Operation above the threshold for the activity	Manufacturing of coating preparations, varnishes, inks and adhesives, solvent consumption threshold 100 tonnes/year	From receipt of raw materials to despatch of products
Directly Associated Activity		
Deionised water supply	Provision of de-ionised water using reverse osmosis	From receipt of raw materials, handling, to use on site.
Waste storage	Provision of waste storage	From generation of waste, storage (including designated storage areas and segregation for generated waste across the site) handling on site to despatch off site
Hot water supply	1 x approx 1MW thermal input gas fired boiler	Supply of hot water to the plant and office buildings
Cooling water supply	1 x cooling tower	Cooling towers water to supply the resins plant reactor
Nitrogen supply	Provision of nitrogen gas	Nitrogen tank and generating plant supplying the site
Coolant supply	1 x chiller	Provision of chilled glycol/water mix to the paint plant mills
Compressed air supply	1 x compressor	Provision of compressed air to the site

Table S1.2 Operating techniques

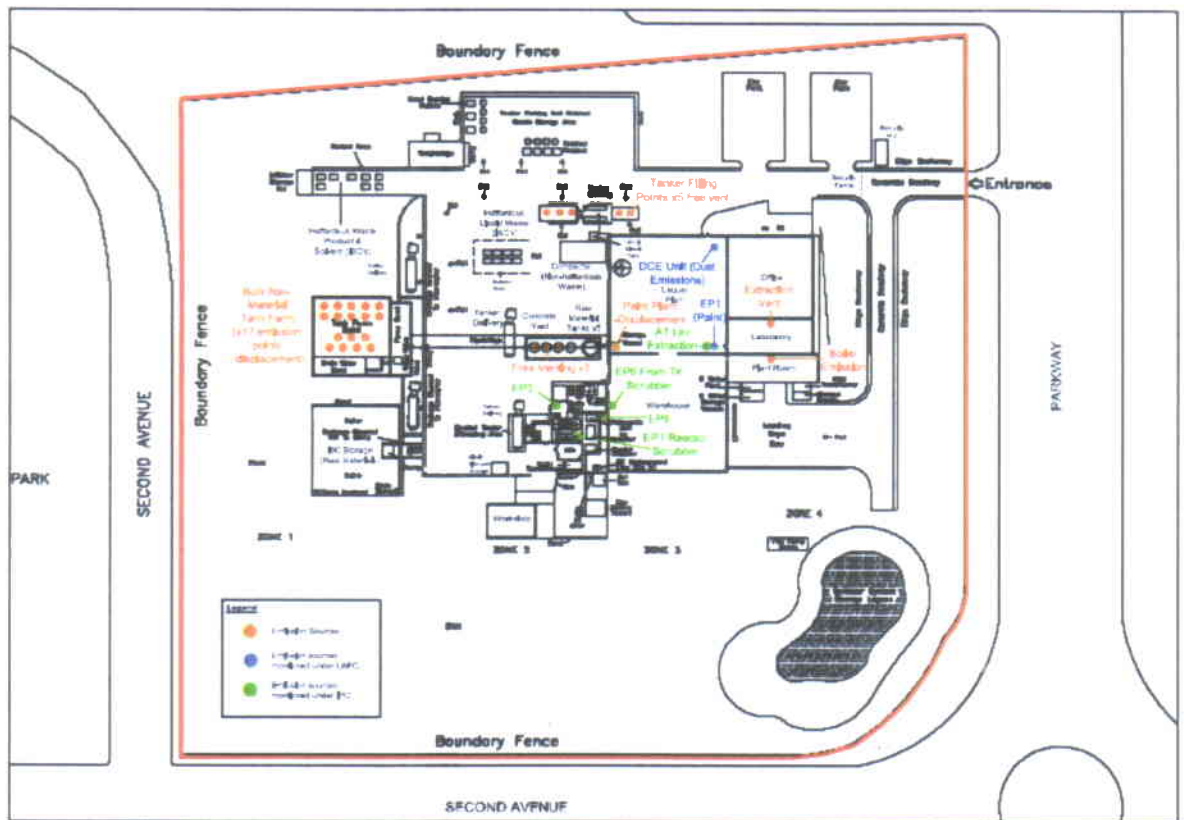
Description	Parts	Date Received
Application	The response to section 2.0, 3.0, 4.0, 5.0 in the Application.	30/03/06
Response to Schedule 4 Notice Request issued on 19/10/06	Response to questions 1, 7, 10, 16, 17, 18, 20, 41, 42, 43 detailing process control.	24/11/06
Additional Information Received - chemical names, PRVs, dust extraction, cooling tower, drain release point information and trade effluent consent	The responses numbered 2, 3, 4, 6 and the trade effluent consent	12/03/07
Additional Information Received – Emission points to atmosphere drawing	All	13/03/07
Additional Information Received – Table: Reconciliation of Emission Points to Atmosphere (PPC v IPC) & consent discharge map	All	14/03/07
Additional Information Received – Emission points to Water and Sewer	All	29/03/07

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IP1	<p>A written updated and reviewed preventative maintenance and inspection plan shall be submitted to the Agency for approval to encompass all plant whose failure could lead to an impact on the environment. The procedure shall include but not be limited to, a timetable for achieving any improvements identified. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the procedure.</p> <p>The procedure shall be implemented by the operator from the date of approval in writing by the Agency</p>	31/12/07
IP2	<p>A written procedure and implementation timetable shall be submitted to the Agency for approval detailing the measures to be taken so that monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme shall have either MCERTS certification or accreditation in accordance with condition 3.6.3. The procedure shall recognise the batch nature of the processes, be consistent with Agency Sector Guidance Note (SGN) IPPC S4.02, Organic Fine Chemicals BREF document (December 2005) and Agency Guidance M2. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the procedure and timetable.</p> <p>The procedure shall be implemented by the operator from the date of approval in writing by the Agency</p>	31/12/07
IP3	<p>A study report shall be submitted to the Agency for approval to establish volatile organic compounds (VOCs) releases (concentrations and/or release rates) from points A1 to A5. This is to enable the completion of setting of volatile organic compounds (VOCs) limits for these points and if necessary identify measures, with an implementation programme, to achieve Agency Sector Guidance Note SGN IPPC S4.02 volatile organic compounds (VOCs) limits. Monitoring methodology shall be consistent with the outcomes of IP2 above. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the report.</p> <p>The programme shall be implemented by the operator from the date of approval in writing by the Agency</p>	31/12/07
IP4	<p>A written accident management plan shall be submitted to the Agency for approval to encompass all relevant aspects and measures as appropriate. This shall also include a flood protection risk assessment for the site and an assessment of firewater hazards. The procedure shall include but not be limited to, a timetable for achieving the improvements to comply with the requirements of the Sector Technical Guidance Note (TGN) where appropriate. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the procedure.</p> <p>The procedure shall be implemented by the operator from the date of approval in writing by the Agency</p>	28/2/08
IP5	<p>A written energy efficiency plan shall be submitted to the Agency for approval detailing the results of an assessment to identify the energy efficiency priorities across the site and for building services measures. The plan shall include but not be limited to a timetable to implement any proposed changes as appropriate. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the plan.</p> <p>The plan shall be implemented by the Operator from the date of approval in writing by the Agency.</p>	31/03/08
IP6	<p>A written site closure plan shall be submitted to the Agency for approval. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the procedure.</p> <p>The procedure shall be implemented by the operator from the date of approval in writing by the Agency.</p>	31/03/08

IP7	<p>A written plan shall be submitted to the Agency for approval detailing the results of a survey to determine the integrity, adequacy and suitability of existing hard-standing, kerbing and secondary containment for above and below ground structures for raw material, chemical and oil as well as waste storage areas and the measures to comply with the requirements of the Sector Technical Guidance Note (TGN). This shall include but not be limited to an inspection and maintenance program for all relevant equipment identified and inspected every 3 years. Where appropriate the plan shall contain dates for the implementation of individual measures. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the plan.</p> <p>The plan shall be implemented by the operator from the date of approval in writing by the Agency.</p>	30/11/07
IP8	<p>A written water efficiency plan shall be submitted to the Agency for approval detailing the results of an assessment to identify the water efficiency priorities across the site. The plan shall include but not be limited to a timetable to implement any proposed changes as appropriate. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the plan.</p> <p>The plan shall be implemented by the operator from the date of approval in writing by the Agency.</p>	31/03/08
IP9	<p>A written waste management plan shall be submitted to the Agency for approval detailing the results of an assessment to identify the best environmental options for waste recovery or disposal, waste minimisation, waste management including handling, storage and waste retention times as well as a waste management audit to comply with the requirements of the Sector Technical Guidance Note (TGN). The plan shall include but not be limited to a timetable to implement any proposed changes as appropriate and shall include a clause to be reviewed every 4 years. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the plan.</p> <p>The plan shall be implemented by the operator from the date of approval in writing by the Agency.</p>	30/11/07
IP10	<p>A written management plan shall be submitted to the Agency for approval detailing the results of an assessment to determine the review the adequacy and suitability of the existing raw material management and storage systems. The plan shall include but not be limited to handling, storage and retention times of raw materials, and where appropriate the management plan shall contain a timetable to implement any proposed changes as appropriate, and shall include a clause to be reviewed every 2 years. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the plan.</p> <p>The plan shall be implemented by the operator from the date of approval in writing by the Agency.</p>	31/01/08
IP11	<p>The operator shall produce a Solvent Reduction Plan and a Solvent Management Plan consistent with requirements of the Solvent Emissions (England and Wales) Regulations 2004 and submit them to the Agency for approval. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the plans.</p> <p>The plans shall be implemented by the operator from the date of approval in writing by the Agency</p>	30/06/07
IP12	<p>The operator shall review and update the site drainage diagram. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the diagram to the Agency.</p>	31/07/07

Schedule 2 - Site plan



Schedule 3 - Waste types, raw materials and fuels

Table S3.1 Raw materials and fuels

Raw materials and fuel description	Specification
Gas oil until 31/12/2007	Less than 0.2% by mass Sulphur content ¹
Gas oil from 01/01/2008	Less than 0.1% by mass Sulphur content ¹

¹ Reference: The Sulphur Content of Liquid Fuels (England and Wales) Regulations 2000 (SI 2000 No. 1460) expressed as percentage by mass.

Schedule 4 – Emissions and monitoring

Table S4.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location (Note 1)	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1	Total Class B VOCs as carbon	Resin plant – reactor scrubber	2000g/h	To be established	Quarterly	BS EN 13649
A1	Total Class A VOCs as individual VOCs	Resin plant – reactor scrubber	To be established	To be established	To be established	To be established
A2	Total Class B VOCs as carbon	Resin plant – reactor dust filter	2000g/h	To be established	Quarterly	BS EN 13649
A2	Total Class A VOCs as individual VOCs	Resin plant – reactor dust filter	To be established	To be established	To be established	To be established
A2	Particulates	Resin plant – reactor dust filter	20mg/m ³	30 min	Quarterly	BS 3405: 1983
A3	Total Class B VOCs as carbon	Resin plant – ethyl acrylate scrubber	2000g/h	To be established	Quarterly	BS EN 13649
A3	Total Class A VOCs as individual VOCs	Resin plant – ethyl acrylate scrubber	To be established	To be established	To be established	To be established
A4	Total Class B VOCs as carbon	Resin plant – carbon adsorption units	To be agreed	To be established	To be established	BS EN 13649
A5	Total Class B VOCs as carbon	Paint plant vessels	2000g/h	To be established	Quarterly	BS EN 13649
A6	Total Class A VOCs as individual VOCs	Paint plant vessels	To be established	To be established	To be established	To be established
A6 to A36	No parameters set	Various dust dust collection equipment (DCE) & local exhaust ventilation (LEV) units, storage and plant tanks	No limit set	--	--	Permanent sampling access not required

Note 1 Refer to Additional Information - drawing Valspar Deeside Emission Points (13/03/07)

Table S4.2 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements

Emission point ref. & location (Note 1)	Parameter	Source	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 (Discharge to Shotwick Brook)	No parameters set	Surface water	No limit set	--	--	Permanent sampling access not required

Note 1 Refer to Additional Information – Emission points to Water and Sewer drawing received 29/03/07

Table S4.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements

Emission point ref. & location (Note 1)	Parameter (Note 2)	Source	Limit (Incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 (Discharge to Chester Sewage Treatment Works)	No parameters set	Site effluent	No limit set	--	--	Permanent sampling access not required

Note 1 Refer to Additional Information – Emission points to Water and Sewer drawing received 29/03/07

Note 2 There is a trade effluent consent with Welsh Water

Schedule 5 - Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S5.1 Reporting of monitoring data

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Class B VOCs	A1, A2, A3, A5	Quarterly	1 January, 1 April, 1 July, 1 October respectively each year
	A4	To be established	To be established
Class A VOCs	A1, A2, A3, A4, A5	To be established	To be established
Particulates	A2	Quarterly	1 January, 1 April, 1 July, 1 October respectively each year

Table S5.2: Annual production/treatment

Parameter	Units
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Table S5.3 Performance parameters

Parameter	Frequency of assessment	Units
Water usage	Annually	M ³
Energy usage	Annually	MWs
Total solvent usage & loss	Annually	Tonnes & %

Table S5.4 Reporting forms

Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by the Agency	04/04/07
Water usage	Form water usage1 or other form as agreed in writing by the Agency	04/04/07
Energy usage	Form energy 1 or other form as agreed in writing by the Agency	04/04/07
Other performance indicators	Form performance 1 or other form as agreed in writing by the Agency	04/04/07

Schedule 6 - 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 PPC Regulations.

Part A

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

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
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 limit	
To be notified within 24 hours of detection unless otherwise specified below	
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

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
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 installation in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of The Valspar (UK) Corporation Limited

Schedule 7 - Interpretation

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

"*annually*" means once every year.

"*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 4 to the PPC Regulations.

"*authorised officer*" means any person authorised by the 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.

"*fugitive emission*" means an emission to air, water or land from the activities which is not controlled by an emission 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.

"*land protection guidance*", means Agency guidance "H7 - Guidance on the protection of land under the PPC Regime: application site report and site protection monitoring programme".

"*LEV*" *Local exhaust ventilation*

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

"*notify without delay*" and "*notified without delay*" means that a telephone call can be used, whereas all other reports and notifications must be supplied in writing, either electronically or on paper.

"*PPC Regulations*" means the Pollution, Prevention and Control (England and Wales) Regulations SI 2000 No.1973 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

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

"*site protection and monitoring programme*" means a document which meets the requirements for site protection and monitoring programmes described in the Land Protection Guidance.

"*VOC*" *Volatile Organic Compound*

"*year*" means calendar year ending 31 December.

Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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

- (a) 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
- (b) 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

END OF PERMIT