

PERMIT A2/02



**POLLUTION PREVENTION AND CONTROL ACT 1999  
 POLLUTION PREVENTION AND CONTROL (ENGLAND  
 AND WALES) REGULATIONS 2000**

**PERMIT OF PROCESS**

**THIS IS TO CERTIFY THAT THE COATING AND SURFACE TREATING OF  
 PRODUCTS USING ORGANIC COMPOUNDS**

**Operated by:** ADVANCED TAPES INTERNATIONAL LTD, PINFOLD ROAD,  
 THURMASTON, LEICESTERSHIRE LE4 5RA  
**National Grid Reference SK 604 090**

has been duly permitted in accordance with regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations 2000 subject to the conditions outlined in this document.

**Name of Operator: Advanced Tapes International Ltd**  
**Registered Office PO Box 122, Abbey Meadows Leicester LE4 5RA**

This Permit shall apply only to the premises occupied by the applicant, as specified and described in the Application for Permit submitted to the Borough of Charnwood. This Permit, consisting of forty-five pages, shall be subject to replacement, variation or amendment, as may be considered appropriate by the Borough of Charnwood at any time, according to provisions of Regulations 12, 15 and 17 of the Pollution Prevention and Control (England and Wales) Regulations 2000.

The conditions contained herein shall apply from the date of the Permit unless otherwise stated.

Signed on behalf of Charnwood Borough Council

.....Dated...27 March 2006

Ann Green  
 Specialist Environmental Health Officer

Countersigned.....

Directorate of Housing and Health  
 Southfield Road, Loughborough LE11 2TX

## Introductory note

### ***This introductory note does not form a part of the permit***

The following Permit is issued under Regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I.2000 No 1973), as amended, (“the PPC Regulations”) to operate an installation carrying out activities covered by the description in Section 6.4 A(2) in Part I Schedule I of the PPC Regulations, to the extent authorised by the Permit:

#### Section 6.4, Part A(2)

"Surface treating substances, objects or products using organic solvents, in particular for dressing, printing, coating degreasing, waterproofing, sizing, painting, cleaning or impregnating, in a plant with a consumption capacity of more than 150 kg per hour or more than 200 tonnes per year, where not covered by the Part A1 definition.

Aspects of the operation of the installation which are not regulated by conditions of the Permit are subject to the condition implied by Regulation 12(10) of the PPC Regulations, i.e. the Operator shall use the best available techniques for preventing or, where that is not practicable, reducing emissions from the installation.

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

In some sections of the Permit conditions require the Operator to use Best Available Techniques (BAT), in each of the aspects of the management of the installation, to prevent and where that is not practicable to reduce emissions. The conditions do not explain what is BAT. In determining BAT the Operator should pay particular attention to relevant sections of the IPPC Sector guidance, appropriate Horizontal guidance (H1 to H4) and other relevant guidance.

A non-technical description of the installation is given in the Application, but the main features of the installation are as follows:

Advanced Tapes International Ltd, located on Pinfold Road, Thurmaston, manufactures a wide range of adhesive tapes primarily for use within the industrial sector. The range of tapes includes PVC and Polythene coated tapes (for example those used to mark out the courts in sports centres) double sided tape, and foil tape (for example those used for sealing double glazing units).

The adhesive used in the process consists of two types. The first is water based and is purchased from the supplier ready for use, the second is solvent based and is produced on site. The solvent is stored in underground tanks which are encased in concrete.

During tape manufacture, using the solvent based adhesive, the tape passes through drying ovens where the solvents are evaporated from the product. The evaporated

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solvent is directed to a solvent incinerator where any VOC's are destroyed. The heat generated from this process is then utilised both in the drying ovens on the water based coating line and for heating the factory. Systems are in place so that the solvent based coating line automatically shuts down when there is a problem with the solvent incinerator. The contents of the air emissions are monitored and recorded on a regular basis to check they remain within the limits set by the regulator.

Waste produced at the site includes both solid and special waste. The solid waste consists of scrapped products, plastic packaging, wooden pallets, uncoated scrap PVC and Polythene, cardboard/paper (all of which are sent for recycling) and general waste. A licensed waste carrier takes the general waste to a waste transfer station where further separation for recycling occurs before the remainder is disposed of to landfill. The special waste consists of scrap solvent adhesive, water based emulsion washings, cutting fluid, and oil/grease. This is stored in a sealed area before being taken away by a licensed waste management company.

Note that the Permit requires the submission of certain information to the Local Authority (LA). In addition, the LA has the power to seek further information at any time under regulation 28 to the PPC Regulations provided that it acts reasonably.

Other PPC Permits relating to this installation

Permit Holder	Permit Number	Date of Issue
Not applicable		

Superseded Licences/Authorisations/Consents relating to this installation

Holder	Reference Number	Date of Issue
Advanced Tapes International Ltd	036	14 March 1994

### **Public Registers**

Considerable information relating to Permits including the Application is available on public registers in accordance with the requirements of the PPC Regulations. Certain information may be withheld from public registers where it is commercially confidential or contrary to national security.

### **Variations to the Permit**

This Permit may be varied in the future (by the LA serving a Variation Notice on the Operator). If the Operator itself wants any of the Conditions of the Permit to be changed, it must submit a formal Application. The Status Log within the Introductory Note to any such Variation Notice 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 by the Operator. For the application to be successful, the Operator must be able to demonstrate to the LA that there is no pollution risk and that no further steps are required to return the site to a satisfactory state.

### **Transfer of the Permit or part of the Permit**

Before the Permit can be wholly or partially transferred to another person, an Application to transfer the Permit has to be made jointly by the existing and proposed holders. A transfer will be allowed unless the LA considers that the proposed holder will not be the person who will have control over the operation of the installation or will not comply with the conditions of the transferred Permit. If, however, the Permit authorises the carrying out of a specified waste management activity, the transfer will only be allowed if the proposed holder is also considered to be a "fit and proper person" as required by the PPC Regulations.

### **Talking to us**

Please quote the Permit Number if you contact the LA about this Permit. To give a Notification under Condition 5.1.1, the Operator should use the telephone number 01509 634636 or any other number notified in writing to the Operator by the LA for that purpose.

### **Status Log**

<b><u>Detail</u></b>	<b><u>Date</u></b>	<b><u>Comment</u></b>
Application A2/02	Received 31/7/03	Duly made 30/9/03
Response to request for information	Received 18/2/04	Information on HI assessment
Response to request for information	Received 21/1/04	Information on noise survey
Request to extend determination period by 2 months	Request dated 16/12/03	Extension agreed by e-mail
Permit determined	31/10/05	

**End of Introductory Note.**

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## Conditions

### I General

#### I.1 Permitted Activities

I.1.1 The Operator is authorised to carry out the activities and the associated activities specified in Table I.1.1

Table I.1.1

<b>Activity listed in Schedule I of the PPC Regulations/ Associated Activity</b>	<b>Description of specified activity</b>	<b>Limits of specified activity</b>
Section 6.4 Part A(2)(a)	Adhesive manufacture	Adhesives used in coating process are manufactured on site in areas shown on diagram 1013 -1-001, 1013-1-002/D and 1013-1-003 of application and 0567/M/05
Section 6.4 Part A(2)(a)	Coating and surface treatment of products exceeding 150KG per hour or 200 tonnes per annum	Application of coatings and adhesives carried out in areas shown on diagram 1013 -1-001, 1013-1-002/D and 13-1-003 of application and 0567/M/08
Storage and handling of raw materials including the bulk storage of solvents	Storage of solid and liquid materials is stored in underground storage tanks, bale or bags and IBC's or drums	Receipt and storage of raw materials to transfer to batch preparation or other process areas. Information on the location of storage areas and related equipment shown on 0567/M/01,0567/M/02 and 0567/M/09
Product drying	Drying ovens to remove solvent carrier	Product drying carried out in areas shown on diagram 1013-1-02/E and 1567/M/05
Waste handling, storage, handling and dispatch of finished products, waste and other material	Storage of finished produce in drums, IBC containers. Process waste segregation and storage	Internal & external storage of intermediates, finished products, storage of waste in designated areas and loading for transit off site
Control and thermal oxidation of VOC's for emissions to air	Abatement of releases to air	Extraction and collection of waste gases and treatment in Thermal oxidiser prior to

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		release to atmosphere. Shown on diagram 1013-03-002
Effluent treatment	Effluent collection, pH adjustment, agitation and analysis prior to discharge to sewer	From drainage system to point of entry to sewer
Processing of solid components	Processing of material prior to use	Processing prior to use, particularly of rubbers, carried out in Polymer Preparation Area, shown on 0567/M/09
Pre-mixing	4 mechanical mixing vessels used for the preparation of water and solvent based coatings.	Processing prior to use within the Polymer Preparation Area as detailed in 0567/M/09
Water based coating process	Water based adhesives are purchased directly from a number of suppliers and stored within the building prior to use within the coating process	Application of water based adhesives carried out in areas shown on 1013-1-001, 1013-1-002/D, 1013-03-003 and on 0567/M/07
Converting and packaging process	All products manufactured, including those from the Abbey Meadows facility are converted and packed on site	Conversion and packaging of all products carried out in areas shown on drawings 1013-03-004
Development plant	Development of new products prior to manufacture on main processing line. Includes small mixing area and pilot coating plant. Used for solvent or water based products.	Pilot plant is equipped with evaporation oven connected to a single outlet stack, shown on drawing 0567/M/10

- 1.1.2 Where waste on site is subject to activities that are exempt from control under the Waste Management Licensing Regulation 1994 then the wastes controlled under condition 1.1.1 above, shall be clearly identified and kept separate from such exempt waste activities and a record shall be kept of where such exempt activities are conducted.

## **1.2 Site**

- 1.2.1 The activities authorised under condition 1.1.1 shall not extend beyond the site, being the land shown in Schedule 5 to this Permit.

### **1.3 Overarching Management Condition**

- 1.3.1 Without prejudice to the other conditions of this Permit, the Operator shall implement and maintain a management system, organisational structure and allocate resources that are sufficient to achieve compliance with the limits and conditions of this Permit.

### **1.4 Improvement Programme**

- 1.4.1 The Operator shall complete the improvements specified in Table 1.4.1 by the date specified in that table, and shall send written notification of the date of completion of each requirement to the LA within 14 days of the completion of each such requirement.

Table 1.4.1 Improvement programme

<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
<b>Surface drainage/soakaways</b>		
IP3	Provide a site map showing the location of all soakaways. Inspect and demonstrate the integrity of all soakaways on the site to ensure contaminated drainage or spillages cannot enter watercourses via the soakaways.	9 months from variation notice issue
IP4	Detail procedures and precautions in place to prevent accidental releases from entering site drainage or soakaways and the subsequent migration to ground water	9 months from variation notice issue
IP23	Establish a regular monitoring/sampling programme of groundwater adjacent to the soak-aways to demonstrate whether the discharge of surface run off to these soak-aways are resulting in the contamination of groundwater.	9 months from variation notice issue
<b>Storage Tanks</b>		
IP5	Provide evidence to prove the integrity of the large scale storage tanks. Implement a management plan; detailing the frequency of checks, what corrective action will be taken should damage to the tanks be identified.	6 months from variation notice issue
IP22	Carry out a detailed site investigation to establish the 'Baseline' concentration of any existing ground contamination. Paying particular attention to areas adjacent to the bulk chemical storage areas and areas where chemicals and oils are used.	12 months from variation notice issue
<b>Waste disposal/minimisation</b>		
IP19	Provide a written report to LA on the best practicable Environmental Option for waste disposal from the installation. A timescale for implementation of	15 months from variation notice issue

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	improvements shall be agreed in writing with the LA.	
IP20	The Operator shall carry out a waste minimisation audit. Using this information opportunities for reducing waste should be assessed and where appropriate implemented.	24 months from variation notice issue
<b>Impact of Emissions</b>		
IP1	Carry out an assessment of impact of emissions to atmosphere which could have an effect on local human receptors, using a recognised methodology, such as that described in the Environment Agency's guidance H1	12 - 18 months from variation notice issue
IP2	Carry out an assessment of impact on human health from emissions to water (particularly fugitive emissions to ground water)	6 months from variation notice issue
IP6	Carry out an assessment of the impact of odorous emissions on human receptors, using a recognised methodology such as that described in the Environment Agency's guidance H4.	6 months from variation notice issue
IP9	Demonstrate all reasonable practicable steps are taken during start up and shut down to minimise emissions	3 months from variation notice issue
IP8	Monitor emissions of the back venting system to the solvent storage tanks, to demonstrate the containment of VOCs	12 months from variation notice issue
IP12	The operator shall review measures for assessing and where possible reducing fugitive emissions. An inventory of fugitive emissions shall be submitted to the LA on an annual basis. The results of this review shall include a BAT justification of the choices made.	12 months from variation notice issue
IP10	<p>The operator shall undertake a review of the use of the bypass system and shall provide a options appraisal for its continued use. The operator shall also submit written procedures for the use of the by pass stack detailing:</p> <ul style="list-style-type: none"> <li>• Under what conditions the process will operate by the bypass stack</li> <li>• Measures for assessing the performance of the abatement plant to prevent the need for bypass conditions</li> <li>• A review of how often the bypass stack has been used in the last 12 months</li> <li>• Method of notifying Local authority of the use of the by-pass system</li> <li>• Procedures for reviewing the use and implementing alternatives</li> <li>• Improvement program should the use of the bypass prove excessive</li> </ul> <p>The results of this review shall include a BAT justification of the choices made. A summary of the BAT assessment shall be submitted to the LA together with a timescale to</p>	To be agreed with regulator following provision of more detailed information

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	implement any necessary changes.	
IP17	The operator shall provide details as to the procedures used to assess the performance of the abatement plant and submit proposals for implementing operational and maintenance controls to ensure effective abatement is sustained.	To be agreed with Regulator following completion of IP10
<b>Noise Controls</b>		
IP13	<p>Carry out attenuation measures for sources identified in noise report submitted as part of the application, specifically:</p> <ul style="list-style-type: none"> <li>• The motorised fan on the water-based oven exhaust stack should be removed and replaced to ensure ambient background noise levels are not increased at the boundary of the site.</li> <li>• The pressure release valve associated with Production Range 2 should be replaced.</li> <li>• The extraction fan and gas boosters identified, as NCPI &amp; NCP3 in Section B2.9 of the application shall be fitted with noise attenuation enclosures.</li> <li>• The Coating Plant ventilation inlets, identified as NCPI &amp; NCP3 in Section B2.9 of the application shall be turned 90° to face the factory.</li> </ul>	6 months from variation notice issue
IP14	<p>Carry out a more comprehensive noise survey in line with appropriate measurement strategies such as those detailed in BS 4142 and BS 7445:1991.</p> <p>The results of the survey and any recommendations together with a timetable for implementation shall be submitted to the LA.</p>	12 months from variation notice issue
IP15	Devise and implement a noise management plan, to identify all potential noise sources, control measures, standards for new/replacement equipment etc.	6 months from completion of IP 14
<b>Accident management plan</b>		
IP7	<p>Implement an accident management plan to include the following:</p> <ul style="list-style-type: none"> <li>• Details of each accident scenario identified (including fire and loss of containment of firewater)</li> <li>• An assessment of the risks associated with each hazard identified (including an assessment of the potential impact on human health of local residents)</li> <li>• A system to maintain an inventory of</li> </ul>	12 months from variation notice issue

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	<p>substances within the installation, which could have environmental consequences if they escape</p> <ul style="list-style-type: none"> <li>• Safe shut down procedures</li> <li>• Identification of the roles and responsibilities during accidents</li> <li>• Written guidance on how each accident scenario should be managed</li> <li>• A programme, with time scales, to implement any additional measures identified as necessary to prevent accidents and to minimise the impact from accidents</li> </ul>	
IP16	<p>The operator shall implement the following procedures and have them available for inspection:</p> <ul style="list-style-type: none"> <li>• A procedure for taking prompt remedial action, investigating, communicating and reporting actual or potential not-compliance with operating procedures or emissions limits and if such events occur:</li> <li>• A procedure for investigating incidents, (including any malfunctions, breakdown or failure of plant, equipment or techniques, down time and short term and long term remedial measures and near misses) and prompt implementation of appropriate action.</li> </ul>	6 months from variation notice issue
<b>Environmental Impact</b>		
IP18	Provide a written report to LA on the method that will be used to Bench Mark and track the Environmental Performance of the installation in accordance with the Sector Guidance Note SG6/03.	15 months from variation notice issue
IP21	Establish an energy reduction working group to determine and monitor the effectiveness of the Company's Energy Reduction Programme and to recommend improvements.	12 months from variation notice issue
IP24	The Operator shall carry out a water efficiency audit. Using this information, opportunities for reducing water use shall be assessed and where appropriate implemented.	24 months from variation notice issue.
IP11	Submit a site closure plan that meets the requirements set out in the Sector Guidance Note SG6(03) and in DEFRA manual.	6 months from variation notice issue

1.4.2 Where the Operator fails to comply with any requirement by the date specified in Table 1.4.1 the Operator shall send written notification of such failure to the LA within 14 days of such date.

## **1.5 Minor Operational Changes**

- 1.5.1 The Operator shall seek the LA's written agreement to any minor operational changes under condition 2.1.1 of this Permit by sending to the LA written notice of the details of the proposed change including an assessment of its possible effects, including waste production, on risks to the environment from the Permitted Installation; any relevant supporting assessments and drawings: and the proposed implementation date.
- 1.5.2 Any change requested under condition 1.5.1 shall not be implemented until agreed in writing by the LA. As from the agreed implementation date, the Operator shall operate the Permitted installation in accordance with that change, and relevant provision in the Application shall be deemed to be amended.
- 1.5.3 When the qualification "unless otherwise agreed in writing" is used elsewhere in this Permit, the Operator shall seek such agreement by sending to the LA written notice of the details of the proposed method(s) or techniques.
- 1.5.4 Any method(s) or techniques requested under condition 1.5.3 shall not be implemented until agreed in writing by the LA. As from the agreed implementation date, the Operator shall operate the Permitted installation using that method or technique and relevant provision in the Application shall be deemed to be amended.

## **1.6 Pre-Operational Conditions**

- 1.6.1 There are no pre-operational conditions.

## **1.7 Off-site Conditions**

- 1.7.1 There are no off-site conditions.

## **2.0 Operating Conditions**

### **2.1 In-Process Controls**

- 2.1.1 The permitted Installation shall, subject to the conditions of this Permit, be operated using the techniques and in the manner described in the documentation specified in Table 2.1.1, or as otherwise agreed in writing by the LA in accordance with conditions 1.5.1 and 1.5.2 of this permit.

Table 2.1.1 Operating Techniques

<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Application	The response to questions B2.1, B2.2 and B2.3 of the application	31/7/03

## **2.2 Emissions**

### **2.2.1 Emissions to Air (including heat, but excluding Odour, Noise or Vibrations) from Specified Points**

- 2.2.1.1 Condition 2.2.1 of this Permit shall not apply to releases of odour, noise or vibration.
- 2.2.1.2 Emissions to air from emission points in Table 2.2.1 shall only arise from the source(s) specified in that Table.

Table 2.2.1 Emission Points to Air

<b>Emission point reference or description</b>	<b>Source</b>	<b>Location of emission point</b>
A1	Solvent storage tank farm	Shown on site layout plan ref 1013-1-02/E and Diag.1, section B2.2.1 of application.
A2	Mixer MX1	Shown on layout plan ref 1013-1-02/E, West elevation ref 1013-01-05 and Diag.1, section B2.2.1 of application
A3	Mixer MX2	Shown on layout plan ref 1013-1-02/E, West elevation ref 1013-01-05 and Diag.1, section B2.2.1 of application
A4	Mixer MX3	Shown on layout plan ref 1013-1-

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		02/E, West elevation ref 1013-01-05 and Diag.1, section B2.2.1 of application
A5	Mixer MX6	Shown on layout plan ref 1013-1-02/E, West elevation ref 1013-01-05 and Diag.1, section B2.2.1 of application
A6	Keycoat Storage	Shown on site layout plan ref 1013-1-02/E and Diag.1, section B2.2.1 of application
A7	Catalyst Storage	Shown on site layout plan ref 1013-1-02/E and Diag.1, section B2.2.1 of application
A8	Adhesive Storage (IBC's)	Shown on site layout plan ref 1013-1-02/E and Diag.1, section B2.2.1 of application
A9	Drum storage	Shown on site layout plan ref 1013-1-02/E and Diag.1, section B2.2.1 of application
A10	Coating plant By-pass stack	Shown on layout plan ref 1013-1-02/E, West elevation ref 1013-01-05 and Diag.1, section B2.2.1 of application
A11	Oxidiser Main Exhaust Stack	Shown on layout plan ref 1013-1-02/E, West elevation ref 1013-01-05 and Diag.1, section B2.2.1 of application
A12	Boiler flue	Shown on layout plan ref 1013-1-02/E, West elevation ref 1013-01-05 and Diag.1, section B2.2.1 of application
A13	Pilot plant exhaust stack	Shown on site layout plan ref 1013-1-02/E and Diag.1, section B2.2.1 of application
A14	Batch Range Lab Mixer Flue	Shown on site layout plan ref 1013-1-02/E and Diag.1, section B2.2.1 of application
A15	Laboratory solvent wash off flue	Shown on site layout plan ref 1013-1-02/E and Diag.1, section B2.2.1 of application
A16	Quality control fume cupboard vent	Shown on site layout plan ref 1013-1-02/E and Diag.1, section B2.2.1 of application
A17	Polymer preparation dust collector outlet	Shown on site layout plan ref 1013-1-02/E and Diag.1, section B2.2.1 of application
A18	Mixing room fugitive losses	Shown in Diag.1, section B2.2.1 of application

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		application
A19	Coating plant fugitive losses	Shown in Diag.1, section B2.2.1 of application

2.2.1.3 The limits for emissions to air for the parameter(s) and emission point(s) set out in Table 2.2.2 shall not be exceeded.

Table 2.2.2 Emission limits to air and monitoring

<b>Emission point reference</b>	<b>Parameter</b>	<b>Emission Limit (in accordance with levels specified in Section 3 of SG6(03))</b>	<b>Monitoring frequency</b>	<b>Monitoring method</b>
A1	VOC's - Acetone Toluene CAS15/12 SBP2	100mg/m <sup>3</sup> 20% of solvent input	Once a year extractive monitoring	As detailed in Appendix I Table A1.2 of SG6(03) <sup>1&amp;2</sup>
A2	VOC's - Acetone Toluene CAS15/12 SBP2	100mg/m <sup>3</sup> 20% of solvent input	Once a year extractive monitoring	As detailed in Appendix I Table A1.2 of SG6(03) <sup>1&amp;2</sup>
A3	VOC's - Acetone Toluene CAS15/12 SBP2	100mg/m <sup>3</sup> 20% of solvent input	Once a year extractive monitoring	As detailed in Appendix I Table A1.2 of SG6(03) <sup>1&amp;2</sup>
A4	VOC's - Acetone Toluene CAS15/12 SBP2	100mg/m <sup>3</sup> 20% of solvent input	Once a year extractive monitoring	As detailed in Appendix I Table A1.2 of SG6(03) <sup>1&amp;2</sup>
A5	VOC's - Acetone Toluene CAS15/12 SBP2	100mg/m <sup>3</sup> 20% of solvent input	Once a year extractive monitoring	As detailed in Appendix I Table A1.2 of SG6(03) <sup>1&amp;2</sup>
A6	VOC's - Acetone Toluene CAS15/12 SBP2	100mg/m <sup>3</sup> 20% of solvent input	Once a year extractive monitoring	As detailed in Appendix I Table A1.2 of SG6(03) <sup>1&amp;2</sup>
A7	VOC's - Acetone Toluene CAS15/12 SBP2	100mg/m <sup>3</sup> 20% of solvent input	Once a year extractive monitoring	As detailed in Appendix I Table A1.2 of SG6(03) <sup>1&amp;2</sup>
A8	VOC's - Acetone Toluene CAS15/12 SBP2	100mg/m <sup>3</sup> 20% of solvent input	Once a year extractive monitoring	As detailed in Appendix I Table A1.2 of SG6(03) <sup>1&amp;2</sup>

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A9	VOC's - Acetone Toluene CAS15/12 SBP2	100mg/m <sup>3</sup> 20% of solvent input	Once a year extractive monitoring	As detailed in Appendix I Table A1.2 of SG6(03) <sup>1&amp;2</sup>
A10	VOC's - Acetone Toluene CAS15/12 SBP2	50 mg/m <sup>3</sup>	Once a year extractive monitoring	As detailed in Appendix I Table A1.2 of SG6(03) <sup>1&amp;2</sup>
A11	Products from combustion i.e. CO,  No <sub>x</sub> and  VOC's	100 mg/m <sup>3</sup>  100 mg/m <sup>3</sup>  50 mg/m <sup>3</sup>	Where used as surrogate measurement of VOC destruction, continuously recorded indicative monitoring <b>plus</b> once a year extractive monitoring	As detailed in Appendix I Table A1.2 of SG6(03) <sup>1&amp;2</sup>
A12	Products of combustion and natural gas, i.e. CO,  No <sub>x</sub>  particulates	100 mg/m <sup>3</sup>  100 mg/m <sup>3</sup>  50 mg/m <sup>3</sup>	Once a year	As detailed in Appendix I Table A1.2 of SG6(03) <sup>1&amp;2</sup>
A13	VOC's and water vapour	VOC's: 100mg/m <sup>3</sup>	Once a year extractive monitoring	As detailed in Appendix I Table A1.2 of SG6(03) <sup>1&amp;2</sup>
A14	VOC's	50 mg/m <sup>3</sup>	Once a year extractive monitoring	As detailed in Appendix I Table A1.2 of SG6(03) <sup>1&amp;2</sup>
A15	VOC's	50 mg/m <sup>3</sup>	Once a year extractive monitoring	As detailed in Appendix I Table A1.2 of SG6(03) <sup>1&amp;2</sup>
A16	VOC's	No limit specified	Once a year extractive monitoring	As detailed in Appendix I Table A1.2 of SG6(03) <sup>1&amp;2</sup>
A17	Maize starch dust	No limit specified	Once a year	As detailed in Appendix I

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				Table A1.2 of SG6(03) <sup>1&amp;2</sup>
A18	Fugitive VOC's – Acetone Toluene CAS15/12 SBP2	20% of solvent input	Once a year	In accordance with Appendix 3 of SG6(03) <sup>1&amp;2</sup>
A19	Fugitive VOC's – Acetone Toluene CAS15/12 SBP2	20% of solvent input	Once a year	In Accordance with Appendix 3 of SG6(03) <sup>1&amp;2</sup>

Note 1: See Section 6 for reference conditions

Note 2. Methods for monitoring shall be carried out as specified by the appropriate CEN standards. If CEN standards are not available, ISO standards if available, otherwise national or international standards, which will ensure the provision of data of an equivalent scientific quality, as approved in writing the LA, shall apply. The reference methods used shall be approved in writing by the LA.

## 2.2.2 Emissions to water (other than groundwater), including heat, from specified points

### Emissions to Water (other than to Sewer)

2.2.2.1 No emissions from the Permitted Installation shall be made to water.

### Emissions to Sewer

2.2.2.2 Emissions to sewer from the specified emission points in Table 2.2.3 shall only arise from the source(s) specified in that Table. There are no other specific controls imposed upon emissions to sewer in this Part of the permit.

Table 2.2.3 Emission point to Sewer

Emission point reference or description	Source	Location of emission point
S1	Boiler blow down vessel	Shown on site layout plan ref 1013-1-02/E, 1010-01-42A, 1013-1-02/D section B2.2.1 Diag 1 of application
S2	Cooling tower bleed and drainage	Shown on site layout plan ref 1013-1-02/E, 1010-01-42A, 1013-1-02/D section B2.2.1 Diag 1 of application
S3	Waste cutting fluids	Shown on site layout plan ref 1013-1-02/E, 1010-01-42A, 1013-1-02/D, 1013-01-007 and section B2.2.1 Diag 1 of application
S4	Rainwater from site drainage via	Shown on site layout plan ref 1013-1-02/E

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	collection tanks	
S5	General foul water from toilets and cloakrooms	Shown on site layout plan ref 1013-1-02/E
S6	No2. Range humidifier drain	Shown on site layout plan ref 1013-1-02/E
S7	Compressor condensate	Shown on site layout plan ref 1013-1-02/E

2.2.2.3 The limits for emissions to sewer for the parameter(s) and emission point(s) set out in Table 2.2.4 shall not be exceeded.

Table 2.2.4 Emission limits to water and monitoring

<b>Emission point reference</b>	<b>Parameter</b>	<b>Emission Limit (in accordance with levels specified in Section 3 of SG6(03))</b>	<b>Monitoring frequency</b>	<b>Monitoring method</b>
S1	Compounds of :- Calcium Magnesium Iron Un-dissolved solids and solutions of Sulphites	In accordance with Table 3.1 of SG6(03)	Once a year	As detailed in Appendix I Table A1.1 of SG6(03)
S2	Corrosive inhibitors Biocide treatments Rust/scale	In accordance with Table 3.1 of SG6(03)	Once a year	As detailed in Appendix I Table A1.1 of SG6(03)
S3	Lubrication oils Grease Particulates Polydimethylsiloxane	In accordance with Table 3.1 of SG6(03)	Once a year	As detailed in Appendix I Table A1.1 of SG6(03)

### **2.2.3 Emissions to groundwater**

2.2.3.1 No emission from the Permitted Installation shall give rise to the introduction into groundwater of any substance in List I (as defined in the Groundwater Regulations 1998 (S.I 1998 No 2746)).

2.2.3.2 No emission from the Permitted installation shall give rise to the introduction into groundwater of any substance in List II (as defined in the Groundwater Regulations 1998 (S.I 1998 No 2746)).

- 2.2.3.3 For substances other than those in List I or II (as defined in the Groundwater Regulations 1998 (S.I 1998 No. 2746)), the Operator shall use BAT to prevent or where that is not practicable to reduce emissions to groundwater from the Permitted Installation provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

## **2.2.4 Fugitive emissions of substances to air**

- 2.2.4.1 The Operator shall use BAT so as to prevent or where that is not practicable to reduce fugitive emission of substances to air from the Permitted Installation in particular from:

- Storage areas
- Handling and use of powders and dusty materials
- Mixing room
- Coating plant
- Buildings
- Pipes, valves and other transfer systems
- Open surfaces
- Loading and unloading of materials
- By-pass of abatement equipment
- Accidental losses due to failure, break down or leakage

Provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

## **2.2.5 Fugitive emissions of substances to water and sewer**

- 2.2.5.1 Subject to condition 2.2.5.2 below, the Operator shall use BAT so as to prevent or where that is not practicable to reduce fugitive emission of substances to water (other than Groundwater) and sewer from the Permitted Installation in particular from:

- all structures under or over ground
- surfacing
- bunding
- storage areas

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

- 2.2.5.2 Storage areas shall be clearly marked and containers clearly labelled. The maximum storage capacity of storage areas shall be stated and not exceeded.

2.2.5.3 Storage areas, tanks and silos shall be inspected at least once a week to check for signs of potential leakage.

2.2.5.4 There shall be no release to water that would cause a breach of an EQS established by the UK Government to implement the Dangerous Substances Directive 76/464/EEC.

## **2.2.6 Odour**

2.2.6.1 The Operator shall use BAT so as to prevent or where that is not practicable to reduce odorous emissions from the Permitted Installation, in particular by:

- limiting use of odorous materials
- restricting odorous activities
- controlling the storage conditions of odorous materials
- controlling processing parameters to minimise the generation of odour
- optimising the performance of abatement systems
- timely monitoring, inspection and maintenance
- employing, where appropriate, an approved odour management plan
- carry out odour assessment as per application in B. 2.10.6

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.2.6.2 All emissions to air from the installation shall be free from offensive odour as perceived by an Authorised Officer of the Local Authority outside of the installation boundary.

## **2.2.7 Emission to Land**

2.2.7.1 The quantities, nature, frequency of collection and method of disposal of all identified solid waste streams as detailed in Section B2.5 of the application shall be recorded in compliance with Section 2 of the Sector Guidance Note. This information shall be recorded electronically and made available on request.

## **2.3 Management**

2.3.1 A copy of this Permit and those parts of the application referred to in this Permit shall be available, at all times, for reference by all staff carrying out work subject to the requirements of the Permit.

*Training*

- 2.3.2 The Permitted Installation shall be supervised by staff who are suitably trained and fully conversant with the requirements of this Permit.
- 2.3.3 All staff shall be fully conversant with those aspects of the Permit conditions which are relevant to their duties and shall be provided with adequate professional technical development and training and written operating instructions to enable them to carry out their duties.
- 2.3.4 The Operator shall maintain a record of the skills and training requirements for all staff whose tasks in relation to the Permitted Installation may have an impact on the environment and shall keep records of all relevant training.

*Maintenance*

- 2.3.5 All plant and equipment used in operating the Permitted Installation, the failure of which could lead to an adverse impact on the environment, shall be maintained in good operating condition.
- 2.3.6 The Operator shall maintain a record of relevant plant and equipment covered by condition 2.3.5 and for such plant and equipment; keep a written or electronic maintenance programme and a record of its maintenance.

*Incidents and Complaints*

- 2.3.7 The Operator shall maintain and implement written procedures for:-
- 2.3.7.1 taking prompt remedial action, investigating and reporting actual or potential non-compliance with operating procedures or emission limits if such event occur;
  - 2.3.7.2 investigating incidents (including any malfunction, breakdown or failure of plant, equipment or techniques, down time, any short term and long term remedial measures and near misses) and prompt implementation of appropriate actions; and
  - 2.3.7.3 ensuring that detailed records are made of all such actions and investigations.
- 2.3.8 The Operator shall record and investigate complaints concerning the Permitted Installation's effects or alleged effects on the environment. The record shall give the date and nature of complaint, time of complaint, name of complainant (if given), a summary of any investigation and the results of such investigation and any actions
-

taken.

## **2.4 Efficient use of raw materials**

- 2.4.1 The Operator shall maintain the raw materials detailed in tables or descriptions submitted in response to Section B2.4 of the application and in particular consider on a periodic basis whether there are suitable alternative materials to reduce environmental impact.
- 2.4.1.2 Carry out periodic waste minimisation audits and water use efficiency audits. If such an audit has not been carried out in the 2 years prior to the issue of this Permit, then the first such audit shall take place within 2 years of its issue. The methodology used and an action plan for increasing the efficiency of the use of raw materials or water shall be submitted to the LA within 2 months of completion of each such audit and a review of the audit and a description of progress made against the plan shall be submitted to the LA at least every 4 years thereafter.
- 2.4.1.3 The Operator shall annually review alternatives for the principle types of raw materials used with regard to their environmental impact.

## **2.5 Waste Storage and Handling**

- 2.5.1 The Operator shall design, maintain and operate all facilities for the storage and handling of waste on site such that there are no releases to water or land during normal operation and that emissions to air and the risk of accidental release to water or land are minimised.
- 2.5.2 Prescribed substances detailed in List I and II of the Ground water Regulations 1998 (S.I. 1998 No. 2746) shall be stored and disposed of as detailed in tables or descriptions submitted in response to Section B2.6 of the application.

## **2.6 Waste recovery or disposal**

- 2.6.1 Waste produced at the Permitted Installation shall be recycled or recovered unless technically and/or economically impossible.
- 2.6.2 The operator shall maintain the waste recovery or disposal table or description submitted in response to Section B2.5 of the Application and in particular identify the best practicable environmental options for waste disposal.
- 2.6.3 The Operator shall maintain and implement a system, which ensures that a record is made of the quantity, composition, origin, destination (including whether this is a recovery or disposal operation) and where
-

relevant removal dates of any waste that is produced at the Permitted Installation.

## **2.7 Energy Efficiency**

- 2.7.1 The Operator shall produce a report on the energy consumed at the Permitted Installation over the previous calendar year by 31 January each year, providing the information required by condition 4.1.2.
- 2.7.2 The Operator shall maintain and update annually an energy management system, which shall include, in particular, the monitoring of energy flows and targeting of areas for improving energy efficiency.
- 2.7.3 The Operator shall develop and introduce an energy reduction programme to optimise energy utilisation.
- 2.7.4 The Operator shall maintain the Climate Change Agreement and implement the recommendations detailed in the energy survey in B2.7 of the application.
- 2.7.5 The Operator shall design, maintain and operate the Permitted Installation so as to secure energy efficiency, taking into account relevant guidance including the Environment Agency's Energy Efficiency Horizontal Guidance Note H2 as from time to time amended. Energy efficiency shall be secured in particular by:
- Ensuring that the appropriate operating and maintenance systems are in place;
  - Ensuring that all plant is adequately insulated to minimise energy loss or gain;
  - Ensuring that all appropriate containment methods, (e.g. seals and self-closing doors) are employed and maintained to minimise energy loss;
  - Employing appropriate basic control, such as simple sensors and timers, to avoid unnecessary discharge of heated water to air;
  - Where building services constitute more than 5% of the total energy consumption of the installation, identifying and employing the appropriate energy efficiency techniques for building services, having regard in particular to the Building services part of the Environment Agency's Energy Efficiency Horizontal Guidance Note H2;
  - Maintaining and implementing an energy efficiency plan which identifies energy saving techniques that are applicable to the activities and their associated environmental benefit and prioritises them, having regard to the appraisal method in the Environment Agency's Energy Efficiency Horizontal Guidance

Note H2.

- Ensure that the plant is operated and maintained in such a way as to eliminate wasteful practices and minimise the consumption of gas, electricity and water; and
- Undertake annual energy audits to identify opportunities for reducing energy consumption.

## **2.8 Accident prevention and control**

2.8.1 The Operator shall maintain and implement when necessary the accident management plan submitted or described in response to Section B2.8 of the Application. The plan shall be reviewed at least every 2 years or as soon as practicable after an accident, whichever is the earlier, and the LA notified of the results of the review within 2 months of its completion.

## **2.9 Noise and Vibration**

2.9.1 The Operator shall use BAT so as to prevent or where that is not practicable to reduce emissions of noise and vibration from the Permitted Installation, in particular by:-

- equipment maintenance, e.g. of fans, pumps, motors, conveyors and mobile plant;
- use and maintenance of appropriate attenuation, eg silencers, barriers, enclosures;
- timing and location of noisy activities and vehicle movements;
- periodic checking of noise emissions, either qualitatively or quantitatively; and
- maintenance of building fabric.

Provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

## **2.10 On-site Monitoring**

2.10.1 The Operator shall maintain and implement an emissions monitoring programme which ensures that emissions are monitored from the specified points, for the parameters listed in and to the frequencies and methods described in Table 2.2.2 unless otherwise agreed in writing, and that the results of such monitoring are assessed. The programme shall ensure that monitoring is carried out under an appropriate range of operating conditions.

2.10.2 The operator shall notify the LA at least 14 days in advance of

undertaking monitoring and/or spot sampling, where such notification has been requested in writing by the LA.

- 2.10.3 The Operator shall maintain records of all monitoring taken or carried out (this includes 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.
- 2.10.4 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme in condition 2.10.1 shall have either MCERTS certification or MCERTS accreditations (as appropriate) unless otherwise agreed in writing.
- 2.10.5 There shall be provided;
- Safe and permanent means of access to enable sampling/monitoring to be carried out in relation to the emission points specified in Schedule 2 in this Permit, unless otherwise specified in that Schedule; and;
  - Safe means of access to emission points when required by the LA.

## **2.11 Closure and Decommissioning**

- 2.11.1 Following completion of Improvement Condition IPI I the Operator shall produce, maintain and review a site closure plan for the site.
- 2.11.2 The Operator shall maintain and operate the Permitted Installation so as to prevent or minimise any pollution risk, including the generation of waste, on closure and decommissioning in particular by:-
- 2.11.2.1 attention to the design of new plant or equipment;
- 2.11.2.2 the maintenance of a record of any events which have, or might have, impacted on the condition of the site along with any further investigation or remediation work carried out; and
- 2.11.2.3 the maintenance of a site closure plan to demonstrate that the installation can be decommissioned avoiding any pollution risk and returning the site of operation to a satisfactory state.
- 2.11.3 Notwithstanding condition 2.11.1 of this permit the Operator shall carry out a full review of the Site Closure Plan at least every 4 years.
- 2.11.4 The site closure plan shall be implemented on final cessation or
-

decommissioning of the Permitted activities or part thereof.

- 2.11.5 The Operator shall give at least 30 days written notice to the LA before implementing the site closure plan.

### 3.0 Records

- 3.1 The Operator shall ensure that all records required to be made by this Permit and any other records made by it in relation to the operation of the Permitted Installation shall:-
- 3.1.1 be made available for inspection by the LA at any reasonable time;
  - 3.1.2 be supplied to the LA on demand and without charge;
  - 3.1.3 be legible;
  - 3.1.4 be made as soon as reasonable practicable;
  - 3.1.5 indicate any amendments which have been made and shall include the original record wherever possible;
  - 3.1.6 be retained at the Permitted Installation, or other location agreed by the LA in writing, for a minimum period of 4 years from the date when the records were made, unless otherwise agreed in writing; and
  - 3.1.7 where they concern the condition of the site of the Installation be kept at the Permitted Installation, or other location agreed by the LA in writing, until all parts of the Permit have been surrendered.

## 4.0 Reporting

- 4.1.1 All reports and written and or oral notifications required by this Permit and notifications required by Regulation 16 of the PPC Regulations shall be made or sent to the LA using the contact details notified in writing to the Operator by the LA.
- 4.1.2 The Operator shall, unless otherwise agreed in writing, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:-
- In respect of the parameters and emission points specified in Table S2 to Schedule 2
  - For the reporting periods specified in Table S2 and Schedule 2 and using the forms specified in Table S3 and Schedule 3
  - Giving the information from such results and assessments as may be required by the forms specified in those Tables; and
  - To the LA within 28 days of the end of the reporting period.
- 4.1.3 Upon completion of Improvement Condition IPI8 the Operator shall submit to the LA a report on the performance of the Permitted Installation over the previous year by 31 January each year, providing the information listed in Tables S4.1 , S4.2 and S4.3 of Schedule 4, assessed at any frequency specified therein.
- 4.1.4 The Operator shall review fugitive emissions, having regard to the application of Best Available Techniques, on an annual basis or such other period as shall be agreed in writing by the LA and a summary report on this review shall be sent to the LA detailing such releases and the measures taken to reduce them within 3 months of the end of such period.
- 4.1.5 Where the Operator has a formal environmental management system applying to the Permitted Installation which encompasses annual improvement targets the Operator shall, not later than 31 January in each year, provide a summary report of the previous year's progress against such targets.
- 4.1.6 The Operator shall, within 6 months of receipt of written notice from the LA, submit to the LA a report assessing whether all appropriate preventive measures continue to be taken against pollution, in particular through the application of the best available techniques at the installation. The report shall consider any relevant published technical guidance current at the time of the notice which is either supplied with or referred to in the notice, and shall assess the costs and benefits of applying techniques described in that guidance or otherwise identified by the Operator that may provide environmental
-

improvement.

## 5.0 Notifications

- 5.1.1 The Operator shall notify the Local Authority without delay of:
- the detection of an emission of any substance which exceeds any limit or criterion in this Permit specified in relation to the substance;
  - the detection of any fugitive emission which has caused, is causing or may cause significant pollution unless the quantity emitted is so trivial that it would be incapable of causing significant pollution;
  - the detection of any malfunction, breakdown or failure of plant or techniques which has caused, is causing or has the potential to cause significant pollution; and
  - any accident which has caused, is causing or has the potential to cause significant pollution.
- 5.1.2 The operator shall submit written confirmation to the LA of any notification under condition 5.1.1 by sending:
- 5.1.2.1 the information listed in Part A of schedule I to this Permit within 24 hours of such notification; and
  - 5.1.2.2 the more detailed information listed in part B of that Schedule as soon as practicable thereafter;
- and such information shall be in accordance with that Schedule.
- 5.1.3 The operator shall give written notification as soon as practicable prior to any of the following:
- 5.1.3.1 permanent cessation of the operation of part or all of the Permitted installation;
  - 5.1.3.2 cessation of operation of part or all of the Permitted Installation for a period likely to exceed 1 year; and
  - 5.1.3.3 resumption of the operation of part or all of the Permitted Installation after a cessation notified under condition 5.1.3.2.
- 5.1.4 The Operator shall notify the LA as soon as practicable, of any information concerning the state of the site which affects or updates
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that provided to the LA as part of the application for this Permit.

- 5.1.5 The Operator shall notify the following matters to the LA in writing within 14 days of their occurrence:
- 5.1.5.1 Any change in the Operator's trading name, registered name or registered office address;
  - 5.1.5.2 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);
  - 5.1.5.3 Any steps taken with a view to the Operator going into administration, entering into a company voluntary arrangement or being wound up;
- 5.1.6 Where the Operator has entered into a Climate Change Agreement with the government, the Operator shall notify the LA within one month of: -
- 5.1.6.1 a decision by the Secretary of State not to re-certify the Agreement;
  - 5.1.6.2 a decision by either the Operator or the Secretary of State to terminate that agreement;
  - 5.1.6.3 any subsequent decision by the Secretary of State to re-certify such an Agreement.
- 5.1.7 Where the Operator has entered into a Direct Participant Agreement in the Emissions Trading Scheme which covers emission relating to the energy consumption of the activities, the Operator shall notify the LA within one month of:-
- 5.1.7.1 a decision by the Operator to withdraw from or the Secretary of State to terminate that agreement;
  - 5.1.7.2 a failure to comply with an annual target under that Agreement at the end of the trading compliance period.

## 6 Interpretation

6.1.1 In this Permit, the following expressions shall have the following meanings:

“Application” means the application for this Permit, together with any response to a Notice served under Schedule 4 to the PPC Regulations and any other written information provided by the Operator for consideration in the determination of the Permit, and any operational change agreed under the conditions of this Permit.

“Authorised Officer” means any person authorised by the LA 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.

“background concentration” means such concentration of that substance as is present in:

- water supplied to the site, or
- where more than 50% of the water used at the site is directly abstracted from ground or surface water on site, the abstracted water; or
- where the Permitted Installation uses no significant amount of supplied or abstracted water, the precipitation on to the site.

“BAT” best available techniques means the most effective and advanced stage of development of activities and their methods of operation which indicates the practical suitability of particular techniques to prevent and where that is not practicable to reduce emissions and the impact on the environment as a whole. For these purposes: “available techniques” means “those techniques which have been developed on a scale which allows implementation in the relevant industrial sector, under economically and technically viable conditions, taking into consideration the cost and advantages, whether or not the techniques are used or produced inside the United Kingdom, as long as they are reasonable accessible to the operator”; “best” means “in relation to techniques, the most effective in achieving a high general level of protection of the environment as a whole” and “techniques” “includes both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned”. In addition, Schedule 2 of the PPC Regulations has effect in relation to the determination of BAT.

“Fugitive emission” means an emission to air or water (including sewer) from the Permitted Installation which is not controlled by an emission or background concentration limit under conditions 2.2.1.3,

2.2.2.1, and 2.2.2.3 of this Permit.

“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.

“ $LA_{eqT}$ ” means the equivalent continuous A-weighted sound pressure level in dB determined over time period T.

“ $LA_{90T}$ ” means the A-weighted sound level measurement in dB exceeded for 90% of the time period T.

$LAF_{max}$ ” means the maximum A weighted sound level measurement in dB measured with a fast time weighting.

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

“Monitoring” includes the taking and analysis of samples, instrumental measurements (periodic and continual), calibrations, examinations, tests and surveys.

“Permitted Installation” means the activities and the limits to those activities described in Table I.1.1 of this Permit.

“PPC Regulations” means the Pollution, Prevention and Control (England and Wales) Regulations SI 2000 No. 1973 (as amended) and words and expressions defined in the PPC Regulations shall have the same meanings when used in this Permit save to the extent they are specifically defined in this Permit.

“Sewer” means sewer within the meaning of section 219(1) of the Water Industry Act 1991.

“Staff” includes employees, directors or other officers of the Operator, and any other person under the Operator’s direct or indirect control, including contractors.

“Year” means calendar year ending 31 December.

6.1.2 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.

6.1.3 Unless otherwise stated any references in this Permit to concentrations of substances in emissions into air means: -

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- 6.1.3.1 in relation to gases 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
- 6.1.3.2 in relation to gases from non-combustion sources, the concentration at temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.
- 6.1.4 Where any condition of this Permit refers to the whole or parts of different documents, in the event of any conflict between the wording of such documents, the wording of the document(s) with the most recent date shall prevail to the extent of such conflict.

## Schedule I – Notification of abnormal emissions

This page outlines the information that the Operator must provide to satisfy conditions 5.1.1 and 5.1.2 of this Permit.

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	
Location of the emission	
Time and date of the emission	

Substance(s) emitted	Media	Best estimate of the quantity or the rate of emission	Time during which the emission took place

Measures taken, or intended to be taken, to stop the emission	
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### Part B

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 or harm 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	

## Schedule 2 – Reporting of monitoring data

Parameters for which reports shall be made, in accordance with condition 4.1.2 and 4.1.3 of this Permit, are listed below.

Table S2: Reporting Parameters

Parameter	Emission Point	Reporting Period	Period Begins
VOC's	A1,A2,A3,A4,A5,A6,A7,A8,A9,A10 and A11	Every 12 months	01.01.06
Carbon Monoxide (from incinerator)	A11 and A12	Every 12 months	01.01.06
Nitrogen Oxide (from incinerator)	A11 and A12	Every 12 months	01.01.06
Total Particulate matter	A11, A12 and A17	Every 12 months	01.01.06
Compounds of Calcium	S1	Every 12 months	01.01.06
Compounds of Magnesium	S1	Every 12 months	01.01.06
Compounds of Iron	S1	Every 12 months	01.01.06
Sulphites	S1	Every 12 months	01.01.06
Biocides and Corrosive inhibitors	S2	Every 12 months	01.01.06
Lubricating oils and grease	S3	Every 12 months	01.01.06
Particulates	S3	Every 12 months	01.01.06
Polydimethylsiloxane	S3	Every 12 months	01.01.06
Performance Indicators	The Permitted Installation	Every 12 months	After completion of IP18
Inventory of Fugitive Emissions	The Permitted Installation	Every 12 months	01.01.06
Energy Usage	N/A	Every 12 months	01.01.06
Waste disposal and/or recovery	N/A	Every 12 months	01.01.06
Water Usage	N/A	Every 12 months	01.01.06

- from prescribed activities only.

**Schedule 3 – Forms to be used**

Table S3: Reporting Forms

<b>Media/parameter</b>	<b>Form Number</b>	<b>Date of Form</b>
Air	AI	27/10/05
Energy Usage	EI	27/10/05
Waste Disposal and Recovery	RI	27/10/05
Water Usage	WUI	27/10/05
Performance Indicators	PII	To be produced upon completion of IP18

## Schedule 4 – Reporting of performance data

Data required to be recorded and reported by Condition 4.1.3. The data should be assessed at the frequency given and reported annually to the Local Authority.

Table S4.1 Annual Solvent Usage

Annual Solvent Consumption	Tonnes

\*specify conversion factor of primary source to delivered energy

Table S4.2 Performance Parameters

Parameter	Frequency of assessment	Performance Indicator
To be agreed under Improvement Condition IPI8 e.g. Energy usage Water usage Waste disposal		

Table S4.3 Annual Waste Return

Total special waste for disposal* (kg)	
Total special waste for recovery* (kg)	

\*from prescribed activities only.

Name*	
Post:	
Signature	
Date	

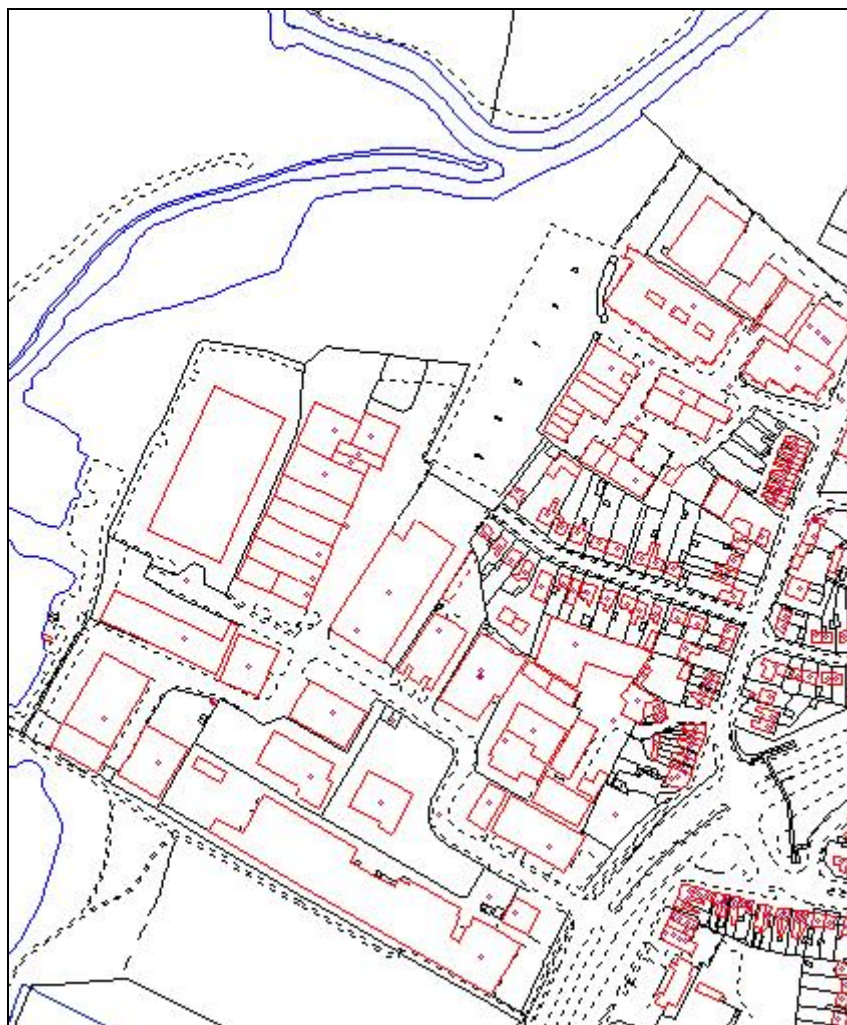
\*authorised to sign on behalf of Advanced Tapes International Ltd

## Schedule 5 – Site Plan

Figure 1, Installation Boundary.



Figure 2, Site Location



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**END OF PERMIT**



PERMIT A2/02

Permit Reference Number : A2.02

Operator : Advanced Tapes International Ltd

Installation : Pinfold Road Thurmaston

Form Number : AI

**Reporting of Emissions to Air for the year .....**

Emission Point	Substance/ Parameter	Emission Limit Value <sup>(6)</sup>	Result <sup>(1)</sup>	Test Method <sup>(2)</sup>	Sample Date and Time <sup>(3)</sup>	Accreditation/ Certification <sup>(4)</sup>	Uncertainty <sup>(5)</sup>
A1							
A2							
A3							

(1) The result given is the maximum value ( or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

(2) Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the LA is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.

(3) For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

(4) The accreditation status of equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis.

(5) The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated. The following uncertainties are quoted on a different basis (basis as stated).

(6) The emission limit values are expressed as a maximum individual value and corrected to 273K, 101.3kPa.

Signed .....  
(authorised to sign as representative of the Operator)

Date .....

PERMIT A2/02

Permit Reference Number : A2.02

Operator : Advanced Tapes International Ltd

Installation : Pinfold Road Thurmaston

Form Number : EI

Reporting Of Energy Usage for the year .....

Energy Source	Energy Usage		CO <sub>2</sub> Produced (tonnes)
	Quantity	Primary Energy (MWh)	
Electricity*	MWh		
Gas	MWh		

Trends in Energy Usage			
Year	Parameter		
	Primary Energy Usage (MWh)	CO <sub>2</sub>	CO <sub>2</sub> per unit output (tonnes/tonne)
2005			
2006			
2007			
2008			
2009			

\* Conversion factor for delivered electricity to primary energy =

Operator's comments:

Signed .....  
(Authorised to sign as representative of the Operator)

Date.....

PERMIT A2/02

Permit Reference Number : A2.02

Operator : Advanced Tapes International Ltd

Installation : Pinfold Road Thurmaston

Form Number : **RI**

**Reporting of Waste Disposal and Recovery for the year .....**

Waste Description	Disposal		Recovery
	Route	Tonnes	Tonnes
<b>1) Hazardous wastes</b>			
Named hazardous waste			
Other hazardous wastes			
Total hazardous waste			
<b>2) Non-hazardous wastes</b>			
Named non-hazardous waste			
Other non-hazardous waste			
Total non-hazardous waste			
<b>TOTAL WASTE</b>			

Trends in Waste Disposal and Recovery			
Year	Parameter		
	Named Waste (tonnes)	Total Waste (tonnes)	Waste per unit output (tonnes/tonne)
2005			
2006			
2007			
2008			
2009			

Operator's comments:

Signed .....  
 (Authorised to sign as representative of Operator)

Date.....

PERMIT A2/02

Permit Reference Number : A2.02

Operator : Advanced Tapes International Ltd

Installation : Pinfold Road Thurmaston

Form Number : **WUI**

**Reporting of Water Usage for the year .....**

Water Source	Usage (m <sup>3</sup> )	Specific Usage (m <sup>3</sup> /t)
Mains water (potable)		
Non potable water		
<b>TOTAL WATER USAGE</b>		

Trends in Water Usage			
Year	Parameter		
	Named Water Source	Total Water Usage	Water per unit output
2005			
2006			
2007			
2008			
2009			

Operator's comments:

Signed .....  
(Authorised to sign as representative of the Operator)

Date.....

PERMIT A2/02

Permit Reference Number : A2.02

Operator : Advanced Tapes International Ltd

Installation : Pinfold Road Thurmaston

Form Number : P11

**Reporting of Performance Indicators for the year .....**

<b>Annual Production</b>	
To be specified upon completion of IPI8	tonnes

**Environmental Performance Indicators (EPI's)**

Parameter	Annual EPI	Units	Trends in Environmental Performance			
To be specified upon completion of IPI8			Year	Parameter		
				To be specified upon completion of IPI8	Waste	
			2005			
			2006			
			2007			
			2008			
			2009			

Operator's comments :

Signed .....  
 (Authorised to sign as representative of the Operator)

Date .....