



**ENVIRONMENT
AGENCY**

Permit with introductory note

Pollution Prevention and Control (England & Wales) Regulations 2000

Rhymney Alginate Fibre Plant

ConvaTec Limited

Unit 2

Heads of the Valleys Industrial Estate

Rhymney

Caerphilly

NP22 5RL

Permit number

TP3535LH

Rhymey Alginate Fibre Plant

Permit Number TP3535LH

Introductory note

This introductory note does not form a part of the permit

The main features of the installation are as follows.

This Installation, operated by ConvaTec Limited manufactures alginate fibre for wound dressings and associated products under section 4.1 Part A(1)(a)(viii) of the PPC Regulations. This Installation should not be confused with Unit 1, which is also operated by ConvaTec Limited and is already permitted under the PPC Regulations for chemical treatment of cellulose fibre.

Unit 1 forms the northern boundary of this installation, with other manufacturing and light industrial units within Heads of the Valley Industrial Estate, to the south. The Rhymney River is located approximately 100m to the east of the installation and to the west is the industrial estate access road with fields and a disused mine shaft beyond that.

The Process comprises a raw materials reception and storage area, fibre production and fibre drying areas, acetone recovery, waste storage areas, effluent treatment and ancillary operations. The Installation operates under ISO14001.

There are a total of nine emissions points to air, with three arising from the listed activity. There are no discharges to controlled surface water. Two discharges occur to the sewer operated by Welsh Water (Dwr Cymru). There are no SSSIs within 2km, and two SACs at 10km from the Installation boundary.

| Status Log of the permit | | |
|--|--------------------|-----------------------|
| Detail | Date | Response Date |
| Application TP3535LH | Duly made 03/04/06 | |
| Additional information received on drainage and site plans | | 24/08/06 and 12/10/06 |
| Permit determined | 17/11/06 | |

End of Introductory Note

Permit

**Pollution Prevention and Control
(England and Wales) Regulations 2000**

Permit

Permit number
TP3535LH

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

ConvaTec Limited ("the operator"),

whose registered office (or principal office) is

for a company use "whose registered office is" unless there is some reason to specify their principal office. "of" should be used where the operator has specified a different address (regulation 6(5)) for the receipt of notices.

**Unit 20
First Avenue
Deeside Industrial Park
Deeside
Flintshire
CH5 2NU**

company registration number 0-1309639

to operate an installation at
Rhymney Alginate Fibre Plant

**Unit 2
Heads of the Valleys Industrial Estate
Rhymney
Caerphilly
NP22 5RL**

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

Signed

Date

R Holland

17/11/06

R Holland

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.

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 green 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

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.
- 3.1.3 Total annual emissions from the emission points set out in tables schedule 4 S4.1, S4.2 and S4.3 of a substance listed in schedule 4 table S4.4 shall not exceed the relevant limit in table S4.4.

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 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;
 - (b) annual limits specified in table S4.4;
- 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 A summary report of the waste types and quantities accepted and removed from the site shall be made for each quarter. It shall be submitted to the Agency within one month of the end of the quarter and shall be in the format required by the Agency.
- 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 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.

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 |
|--|--|---|
| Section 4.1 A1 (a)(viii) | Producing organic chemicals such as - plastic materials, such as polymers, synthetic fibres and cellulose-based fibres | From receipt of raw materials, their storage, emissions to air, discharge of acetone / water mix, discharge of acid effluent, the storage and disposal of wastes to the storage and despatch of alginate fibre. |
| Directly Associated Activity | | |
| Steam supply | <20MWth gas fired boiler | From receipt of gas, emissions to air, despatch of wastes, and water treatment plant. |
| Process water | Treatment of towns water | From receipt of towns water to use within the Process. |
| Effluent treatment | Neutralisation of acid stream | From receipt of acid stream to discharge to S1 |
| Acetone recovery | Distillation of acetone | From storage and receipt of acetone / water mix to production of acetone and its storage, and discharge of cooling water and aqueous effluent. |

Table S1.2 Operating techniques

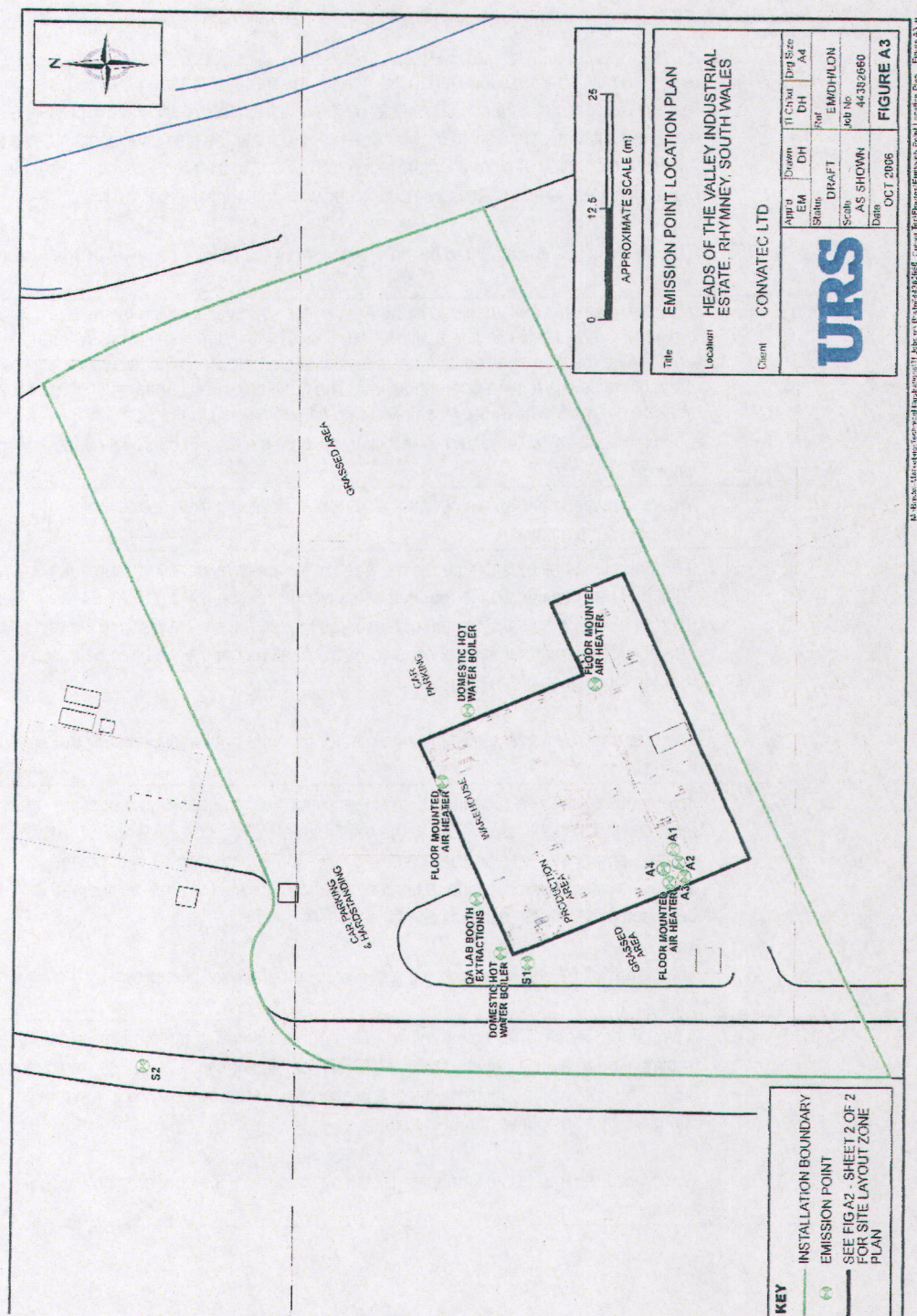
| Description | Parts | Date Received |
|---|---|---------------|
| Application | The response to section 2.1 to 2.2.6 in Report 44382660/FR597 | 03/04/06 |
| Additional information requested 17/08/06 | Response to question 1 – drainage plan | 24/08/06 |

Table S1.3 Improvement programme requirements

| Reference | Requirement | Date |
|-----------|--|----------|
| IC1 | <p>A written procedure shall be submitted to the Agency for approval, detailing maximum storage capacities and storage times of waste within the waste storage areas. 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> | 30/03/07 |
| IC2 | The operator shall erect signs to indicate the segregated waste storage areas. | 30/04/07 |
| IC3 | <p>A feasibility study shall be submitted to the Agency for approval considering the viability of sub-metering of water, gas and electrical services within the Installation. Where appropriate, the study shall include a plan containing dates for the implementation of viable options. 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 by the Agency in writing.</p> | 30/05/07 |
| IC4 | <p>A written plan shall be submitted to the Agency for approval detailing the results of a review of the segregation, recovery and re-use of process water and distillation column cooling water. This may include, but is not limited to the neutralised hydrochloric acid stream from the process. 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 by the Agency in writing.</p> | 30/08/07 |
| IC5 | <p>A written plan shall be submitted to the Agency for approval detailing the results of an assessment of appropriate measures needed and options appraisal for the acetone releases at points A1, A2 and A3 having regard to the requirements of section 2.2.2.1 of TGN S4.02. 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 by the Agency in writing.</p> | 30/09/07 |
| IC6 | The operator shall install an automatic shutdown system on the hydrochloric acid neutralisation system in order to ensure the effluent remains within the pH limits of this permit. | 30/09/07 |
| IC7 | <p>A written plan shall be submitted to the Agency for approval detailing the results of a review of the condition and adequacy of the secondary containment for the acetone bulk storage, distillation process and the diesel tank within the sprinkler / pump engine room, and the measures to comply with the requirements of section 2.2.5 of TGN S4.02. 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 by the Agency in writing.</p> | 30/09/07 |
| IC8 | <p>A written plan shall be submitted to the Agency for approval detailing the results of a review of the appropriate measures used to comply with the requirements of section 2.2.4 of TGN S4.02 in order to control fugitive emissions to air of total organic carbon (TOC) from the bulk storage tanks for acetone and acetone / water mix. 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 by the Agency in writing.</p> | 30/11/07 |
| IC9 | A written plan shall be submitted to the Agency for approval detailing the results of a | 30/11/07 |

| | | |
|------|--|----------|
| | review of the measures in place to prevent firewater being released to the environment to comply with the requirements in Section 2.8 of TGN S4.02. 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. | |
| | The plan shall be implemented by the operator from the date of approval by the Agency in writing. | |
| IC10 | A written plan shall be submitted to the Agency for approval detailing the results of an energy efficiency audit that has considered the requirements of section 2.7 of TGN S4.02 and horizontal guidance given in H4. Where appropriate the plan shall contain dates for the implementation of planned improvements. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the plan. | 30/11/07 |
| | The plan shall be implemented by the operator from the date of approval by the Agency in writing. | |
| IC11 | A written plan shall be submitted to the Agency for approval detailing the results of a CCTV drainage survey (excluding domestic foul drainage) within the Installation. Where appropriate the plan shall contain dates for the implementation of individual measures to prevent emissions to land or groundwater. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the plan. | 30/11/07 |
| | The plan shall be implemented by the operator from the date of approval by the Agency in writing. | |
| IC12 | Where identified in IP10, the operator shall replace existing fixed speed motors with variable speed motors. | 30/11/08 |
| IC13 | A written plan shall be submitted to the Agency for approval detailing the results of a waste audit that has considered the requirements given in section 2.4.2 of TGN S4.02. Where appropriate the plan shall contain dates for the implementation of planned improvements. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the plan. | 30/11/08 |
| | The plan shall be implemented by the operator from the date of approval by the Agency in writing. | |
| IC14 | A written plan shall be submitted to the Agency for approval detailing the results of a water efficiency audit that has considered the requirements of section 2.4.3 of TGN S4.02. Where appropriate the plan shall contain dates for the implementation of planned improvements. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the plan. | 30/11/08 |
| | The plan shall be implemented by the operator from the date of approval by the Agency in writing. | |
| IC15 | A written procedure shall be submitted to the Agency detailing the measures to be used so that monitoring equipment shall have MCERTS certification in accordance with condition 3.6.3. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the plan. | 30/11/08 |
| | The procedure shall be implemented by the operator from the date of approval by the Agency in writing. | |

Reproduced from the Ordnance Survey map with the permission of the Controller of Her Majesty's Stationery Office © Crown Copyright 2000. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings.



Schedule 3 - Waste types, raw materials and fuels

Table S3.1 Raw materials and fuels

| Raw materials and fuel description | Specification |
|------------------------------------|---------------|
|------------------------------------|---------------|

Schedule 4 – Emissions and monitoring

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

| Emission point ref. & location | Parameter | Source | Limit (including unit) | Reference period | Monitoring frequency | Monitoring standard or method |
|---|------------------------------|---|------------------------|---|----------------------|--|
| A1 [Point A1 on site plan in Schedule 2] | Acetone (mg/m ³) | Dryer extraction | - | Hourly average, sampling to take place for a period of 4 hours and each hourly average to be reported | Quarterly | BS EN 13526:2002 |
| A2 [Point A2 on site plan in Schedule 2] | Acetone (mg/m ³) | Spin line extraction (includes dryer canopy, 'J' box and acetone bath lip extraction) | - | Hourly average, sampling to take place for a period of 4 hours and each hourly average to be reported | Quarterly | BS EN 13526:2002 |
| A3 [Point A3 on site plan in schedule 2] | Acetone (mg/m ³) | Low level room extraction | - | Hourly average, sampling to take place for a period of 4 hours and each hourly average to be reported | Quarterly | BS EN 13526:2002 |
| A4 [Point A4 on site plan in Schedule 2] | No parameters set | <20MWth input gas boiler | - | | | Permanent sampling access not required |
| Floor mounted air heaters [as shown in Schedule 2] | No parameters set | 3 x Air heaters | - | | | Permanent sampling access not required |
| Domestic hot water boilers [as shown in Schedule 2] | No parameters set | 2 x hot water boilers | - | | | Permanent sampling access not required |
| QA lab booth extractions [as shown in Schedule 2] | No parameters set | Laboratory booth | - | | | Permanent sampling access not required |
| Storage tanks [shown as 'Acetone Tank Farm' in Figure A5 of the Application Site Report] | No parameters set | Acetone storage tanks 1 to 4 | - | | | Permanent sampling access not required |
| Diesel tank [located in 'Engineering and Maintenance Storage' as shown in Figure A5 of the Application Site Report] | No parameters set | Diesel tank | - | | | Permanent sampling access not required |

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

| Emission point ref. & location | Parameter | Source | Limit (incl. unit) | Reference Period | Monitoring frequency | Monitoring standard or method |
|--------------------------------|-----------|--------|--------------------|------------------|----------------------|-------------------------------|
|--------------------------------|-----------|--------|--------------------|------------------|----------------------|-------------------------------|

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 | Parameter | Source | Limit (incl. Unit) | Reference period | Monitoring frequency | Monitoring standard or method |
|--|----------------------------|----------------------------------|--------------------|-----------------------------------|----------------------|-------------------------------|
| S1 on site plan in Schedule 2 emission to Welsh Water (Dwr Cymru), Cardiff East Sewage Treatment Works | Flow (m ³ /day) | Site effluent treatment facility | - | Average over a three month period | Continuous | BS3680 series |
| S1 on site plan in Schedule 2 emission to Welsh Water (Dwr Cymru), Cardiff East Sewage Treatment Works | Acetone (mg/l) | Site effluent treatment facility | - | Spot | Quarterly | SCA Blue Book 170 |
| S1 on site plan in Schedule 2 emission to Welsh Water (Dwr Cymru), Cardiff East Sewage Treatment Works | Dichloromethane (mg/l) | Site effluent treatment facility | 1.0 mg/l | Spot | Quarterly | BS EN ISO 10301:1997 |
| S2 on site plan in Schedule 2 emission to Welsh Water (Dwr Cymru) storm overflow to Rhymney River | No parameters set | Surface run off | - | - | - | - |

Table S4.4 Annual limits

| Substance | Medium | Limit (including unit) |
|-----------|--------|------------------------|
| Acetone | Air | 25 tonnes |
| Acetone | Water | 0.6 tonnes |

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 |
|---|--|------------------|---------------|
| Emissions to air Parameters as required by condition 3.6.1. | A1, A2, and A3 | Every 3 months | 01/01/07 |
| Emissions to sewer Parameters as required by condition 3.6.1 | S1 | Every 3 months | 01/01/07 |
| Annual emissions Parameters as required by condition 3.6.1 | A1, A2, A3 and S1 | Annual | 01/01/07 |

Table S5.2: Annual production/treatment

| Parameter | Units |
|-----------------|--------|
| Alginate fibres | tonnes |

Table S5.3 Performance parameters

| Parameter | Frequency of assessment | Units |
|-------------------------|-------------------------|----------------------------------|
| Total acetone used | Annual | Tonnes/ tonne of alginate fibres |
| Total acetone recovered | Annual | Tonnes |
| Total acetone released | Annual | Tonnes/ tonne alginate fibres |

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 | 16/10/06 |
| Sewer | Form sewer 1 or other form as agreed in writing by the Agency | 16/10/06 |
| Annual releases | Form annual 1 or other form as agreed in writing by the Agency | 16/10/06 |
| Other performance indicators | Form performance 1 or other form as agreed in writing by the Agency | 16/10/06 |

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 ConvaTec 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".

"*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.

"*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