



Headquarters,
Johnstown Castle Estate,
County Wexford, Ireland

INTEGRATED POLLUTION CONTROL PROPOSED DETERMINATION

Licence Register Number: 527

Applicant: Flemings' Fireclays Manufacturing
Limited

Location of Activity: The Swan
Athy
County Laois

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Glossary of Terms

The Agency	Environmental Protection Agency.
The Licensee	Flemings' Fireclays Manufacturing Limited, The Swan, Athy, County Kildare.
AER	Annual Environmental Report.
Annually	All or part of a period of twelve consecutive months.
BATNEEC	Best Available Technology Not Entailing Excessive Cost.
Biannually	All or part of a period of six consecutive months.
Biennially	Once every two years.
BOD	5 day Biochemical Oxygen Demand.
COD	Chemical Oxygen Demand.
Daily	During all days of plant operation, and in the case of emissions, when emissions are taking place; with no more than 1 measurement on any one day.
Day	Any 24 hour period.
Daytime	0800 hrs to 2200 hrs.
dB(A)	Decibels (A weighted).
EMP	Environmental Management Programme.
EPA	Environmental Protection Agency
EWC	European Waste Catalogue (94/3/EEC, see also Agency Guidance Note on the EWC)
Fortnightly	At least 20 measurements in a calendar year with no more than one measurement in any one week.
IPC	Integrated Pollution Control.
K	Kelvin.
kPa	kilo Pascals.
Leq	Equivalent continuous sound level.
Lighting-up time	30 minutes after sun set.
Local Authority	Laois County Council.

Location of Activity	The Swan, Athy, County Laois.
Monthly	At least 12 times per year at approximately monthly intervals.
Night-time	2200 hrs to 0800 hrs.
Noise sensitive location	Any dwelling house, hotel or hostel, health building, educational establishment, place of worship or entertainment, or any other facility or area of high amenity which for its proper enjoyment requires the absence of noise at nuisance levels.
PER	Pollution Emission Register.
ppm	Parts per million.
Quarterly	All or part of a period of three consecutive months beginning on the first day of January, April, July or October.
Regional Fisheries Board	Southern Regional Fisheries Board
Sanitary Authority	Laois County Council.
Standard Methods	As detailed in "Standard Methods for the Examination of Water and Wastewater", (prepared and published jointly by A.P.H.A., A.W.W.A & W.E.F) 20th Ed. 1998, American Public Health Association, 1015 Fifteenth Street, N.W., Washington DC 20005, USA.
Waste disposal operation	Means any of the operations included in the Third Schedule to the Waste Management Act 1996.
Waste recovery operation	Means any of the operations included in the Fourth Schedule to the Waste Management Act 1996.
Weekly	During all weeks of plant operation, and in the case of emissions, when emissions are taking place; with no more than one measurement in any one week.

Reasons for the Decision

The Agency is satisfied, on the basis of the information available that, subject to compliance with the conditions of this licence, any emissions from the activity will comply with and not contravene any of the requirements of Section 83(3) of the Environmental Protection Agency Act, 1992.

In reaching this decision the Agency has considered the application and supporting documentation received from the applicant and the report of its inspector.

Activities Licensed

In pursuance of the powers conferred on it by the Environmental Protection Agency Act, 1992, the Agency proposes to grant this Integrated Pollution Control licence to:

Flemings' Fireclays Manufacturing Limited, The Swan, Athy, County Kildare

under Section 83(1) of the said Act to carry on the following activity

- :- the manufacture of coarse ceramics including refractory bricks, stoneware pipes, facing and floor bricks and roof tiles,

at The Swan, Athy, County Laois, subject to the following fifteen Conditions, with the reasons therefor and associated schedules attached thereto.

Conditions

Condition 1. Scope

- 1.1 The activity shall be controlled, operated, and maintained and emissions shall take place as set out in this Integrated Pollution Control (IPC) licence. All programmes required to be carried out under the terms of this licence, become part of this licence.
- 1.2 No alteration to, or reconstruction in respect of, the activity or any part thereof which would, or is likely to, result in
- (a) a material change or increase in:
- 1.2.1 The nature or quantity of any emission,
- 1.2.2 The abatement/treatment or recovery systems,
- 1.2.3 The range of processes to be carried out,
- 1.2.4 The fuels, raw materials, intermediates, products or wastes generated, or
- (b) any changes in:
- 1.2.5 The site management and control with adverse environmental significance, shall be carried out or commenced without prior notice to, and without the prior written agreement of, the Agency.
- 1.3 This licence is for the purposes of IPC licensing under the EPA Act, 1992 only and nothing in this licence shall be construed as negating the licensee's statutory obligations or requirements under any other enactments or regulations.
- 1.4 Any reference in this licence to 'site' shall mean the plan areas edged in continuous black and labelled 'Flemings Fireclays Manufacturing Limited, Reg. No. 527' in the IPC licence application.

Reason: To clarify the scope of this licence.

Condition 2. Management of the Activity

- 2.1 The licensee shall establish and maintain an Environmental Management System (EMS) which shall fulfil the requirements of this licence. The EMS shall assess all operations and review all practicable options for the use of cleaner technology, cleaner production and the reduction and minimisation of waste, and shall include as a minimum those elements specified in the Conditions 2.2 to 2.8 below:
- 2.2 A schedule of Environmental Objectives and Targets
- 2.2.1 The licensee shall prepare a schedule of Environmental Objectives and Targets. The schedule shall include time frames for the achievement of set targets. The schedule shall address a five year period as a minimum. The schedule shall be reviewed annually and amendments thereto notified to the Agency for agreement as part of the Annual Environmental Report (AER) (See also Condition 2.8).
- 2.2.2 The licensee shall have regard to those matters listed in the appropriate section of *Schedule 4(i) Recording and Reporting* to the Agency when establishing the schedule of Objectives and Targets.

2.3 Environmental Management Programme (EMP)

2.3.1 The licensee shall, not later than six months from the date of grant of this licence, submit to the Agency for agreement an EMP, including a time schedule, for achieving the Environmental Objectives and Targets prepared under Condition 2.2. Once agreed the EMP shall be established and maintained by the licensee. It shall include:

- (i) designation of responsibility for targets;
- (ii) the means by which they may be achieved;
- (iii) the time within which they may be achieved.

The EMP shall be reviewed annually and amendments thereto notified to the Agency for agreement as part of the Annual Environmental Report (AER) (Condition 2.8).

2.3.2 A report on the programme, including the success in meeting agreed targets, shall be prepared and submitted to the Agency as part of the AER. Such reports shall be retained on-site for a period of not less than seven years and shall be available for inspection by authorised persons of the Agency.

2.4 Documentation

2.4.1 The licensee shall establish and maintain an environmental management documentation system which shall be to the satisfaction of the Agency.

2.4.2 The licensee shall issue a copy of this licence to all relevant personnel whose duties relate to any condition of this licence.

2.5 Corrective Action

2.5.1 The licensee shall establish procedures to ensure that corrective action is taken should the specified requirements of this licence not be fulfilled. The responsibility and authority for initiating further investigation and corrective action in the event of a reported non-conformity with this licence shall be defined.

2.6 Awareness and Training

2.6.1 The licensee shall establish and maintain procedures for identifying training needs, and for providing appropriate training, for all personnel whose work can have a significant effect upon the environment. Appropriate records of training shall be maintained.

2.6.2 Personnel performing specifically assigned tasks shall be qualified on the basis of appropriate education, training and/or experience, as required.

2.7 Responsibilities

2.7.1 The licensee shall ensure that a person in charge, as defined under the terms of the Environmental Protection Agency Act, 1992 shall be available on-site at all times when the activity is in operation. The person in charge shall also be available to meet with authorised persons of the Agency at all reasonable times.

2.8 Communications

2.8.1 The licensee shall, within six months of the date of grant of this licence, put in place a programme to ensure that members of the public can obtain information concerning the environmental performance of the licensee at all reasonable times.

- 2.8.2 The licensee shall submit to the Agency, eighteen months from the date of grant of this licence, and annually thereafter, an AER which shall be to the satisfaction of the Agency. This report shall include as a minimum the information specified in *Schedule 4(i) Recording and Reporting to the Agency* and shall be prepared in accordance with any relevant guidelines issued by the Agency.

Reason: To make provision for management of the activity on a planned basis having regard to the desirability of ongoing assessment, recording and reporting of matters affecting the environment.

Condition 3. Interpretation

- 3.1 Emission limit values for emissions to atmosphere in this licence shall be interpreted in the following way:-
- 3.1.1 For Non-Continuous Monitoring:
- (i) For any parameter where, due to sampling/analytical limitations, a 30 minute sample is inappropriate, a suitable sampling period should be employed and the value obtained therein shall not exceed the emission limit value.
 - (ii) For flow, no hourly or daily mean value, calculated on the basis of appropriate spot readings, shall exceed the relevant limit value.
 - (iii) For all other parameters, no 30 minute mean value shall exceed the emission limit value.
- 3.2 The concentration and volume flow limits for emissions to atmosphere specified in this licence shall be achieved without the introduction of dilution air and shall be based on gas volumes under standard conditions of :-
- 3.2.1 In the case of non-combustion gases:
- (i) Temperature 273K, Pressure 101.3 kPa (no correction for oxygen or water content).
- 3.2.2 In the case of combustion gases:
- (i) Temperature 273K, Pressure 101.3 kPa, dry gas; 18% oxygen.
- 3.3 Emission limit values for emissions to waters in this licence shall be interpreted in the following way:-
- 3.3.1 Non-Continuous Monitoring:
- (i) No grab sample value shall exceed 1.2 times the emission limit value.
- 3.4 Noise
- 3.4.1 Noise from the activity shall not give rise to sound pressure levels (Leq,15 min) measured at the specified noise sensitive locations which exceed the limit value(s) by more than 2 dB(A).

Reason: To clarify the interpretation of emission limit values fixed under the licence.

Condition 4. Notification

- 4.1 The licensee shall notify the Agency by both telephone and facsimile, if available, to the Agency's Headquarters in Wexford, or to such other Agency office as may be specified by the Agency, as soon as practicable after the occurrence of any of the following:
- 4.1.1 Any release of environmental significance to atmosphere from any potential emission point.
 - 4.1.2 Any emission which does not comply with the requirements of this licence.
 - 4.1.3 Any incident with the potential for environmental contamination of surface water or groundwater, or posing an environmental threat to air or land, or requiring an emergency response by the Local Authority.
- The licensee shall include as part of the notification, date and time of the incident, details of the occurrence, and the steps taken to minimise the emissions and avoid recurrence.
- 4.2 The licensee shall make a record of any incident as set out in Condition 4.1 above. The notification given to the Agency shall include details of the circumstances giving rise to the incident and all actions taken to minimise the effect on the environment and minimise wastes generated.
- 4.3 A summary report of reported incidents shall be submitted to the Agency as part of the AER. The information contained in this report shall be prepared in accordance with any relevant guidelines issued by the Agency.
- 4.4 In the case of any incident as set out in Condition 4.1.2 above which relates to discharges to water, the licensee shall notify the Local Authority and the Southern Regional Fisheries Board as soon as practicable after such an incident.
- 4.5 In the event of any incident, as set out in Condition 4.1.3 having taken place, the licensee shall notify the Local Authority as soon as practicable, after such an incident.

Reason: To provide for the notification of incidents and update information on the activity.

Condition 5. Emissions to Atmosphere

- 5.1 No specified emission to the atmosphere shall exceed the emission limit value set out in *Schedule 1(i) Emissions to Atmosphere*, subject to Condition 3 of this licence. There shall be no other emission to the atmosphere of environmental significance.
- 5.2 Monitoring and analyses of each emission shall be carried out as specified in *Schedule 1(ii) Monitoring of Emissions to Atmosphere* of this licence. A report on the results of this monitoring shall be submitted to the Agency on a quarterly basis.
- 5.3 A summary report of emissions to atmosphere shall be submitted to the Agency as part of the AER. The information contained in this report shall be prepared in accordance with any relevant guidelines issued by the Agency.
- 5.4 The licensee shall ensure that all operations on-site shall be carried out in a manner such that air emissions and/or odours do not result in significant impairment of, or significant interference with amenities or the environment beyond the site boundary.

Reason: To provide for the protection of the environment by way of control, limitation, treatment and monitoring of emissions.

Condition 6. Emissions to Water

- 6.1 No specified emission to water shall exceed the emission limit values set out in *Schedule 2(i) Emissions to Water* subject to Condition 3 of this licence. There shall be no other emissions to water of environmental significance.
- 6.2 Monitoring and analyses of each emission shall be carried out as specified in *Schedule 2(ii) Monitoring of Emissions to Water* of this licence. A report on the results of this monitoring shall be submitted to the Agency quarterly.
- 6.3 A summary report of emissions to water shall be submitted to the Agency as part of the AER. The information contained in this report shall be prepared in accordance with any relevant guidelines issued by the Agency.
- 6.4 No substance shall be discharged in a manner, or at a concentration which, following initial dilution, causes tainting of fish or shellfish.

Reason: To provide for the protection of the environment by way of control, limitation, treatment and monitoring of emissions.

Condition 7. Waste Management

- 7.1 Disposal or recovery of waste shall take place only as specified in *Schedule 3(i) Hazardous Wastes for Disposal/Recovery and Schedule 3(ii) Other Wastes for Disposal/Recovery* of this licence and in accordance with the appropriate National and European legislation and protocols. No other waste shall be disposed of/recovered either on-site or off-site without prior notice to, and prior written agreement of, the Agency.
- 7.2 Waste sent off-site for recovery or disposal shall only be conveyed to a waste contractor, as agreed by the Agency, and only transported from the site of the activity to the site of recovery/disposal in a manner which will not adversely affect the environment.
- 7.3 A full record, which shall be open to inspection by authorised persons of the Agency at all times, shall be kept by the licensee on matters relating to the waste management operations and practices at this site. This record shall as a minimum contain details of the following:
 - 7.3.1 The names of the agent and transporter of the waste.
 - 7.3.2 The name of the persons responsible for the ultimate disposal/recovery of the waste.
 - 7.3.3 The ultimate destination of the waste.
 - 7.3.4 Written confirmation of the acceptance and disposal/recovery of any hazardous waste consignments sent off-site.
 - 7.3.5 The tonnages and EWC Code for the waste materials listed in *Schedule 3(i) Hazardous Wastes for Disposal/Recovery and Schedule 3(ii) Other Wastes for Disposal/Recovery*, sent off-site for disposal/recovery.
 - 7.3.6 Details of any rejected consignments.

- 7.3.7 The tonnages and EWC Code for the waste materials *listed Schedule 3(i) Hazardous Wastes for Disposal/Recovery and Schedule 3(ii) Other Wastes for Disposal/Recovery*, recovered on-site.

A copy of this Waste Management record shall be submitted to the Agency as part of the AER for the site.

Reason: To provide for the disposal/recovery of waste and the protection of the environment.

Condition 8. Noise

- 8.1 The licensee shall carry out a noise survey of the site operations annually. The licensee shall consult with the Agency on the timing, nature and extent of the survey and shall develop a survey programme to the satisfaction of the Agency. The survey programme shall be submitted to the Agency in writing at least one month before the survey is to be carried out. A record of the survey results shall be available for inspection by any authorised persons of the Agency, at all reasonable times and a summary report of this record shall be included as part of the AER.
- 8.2 Activities on-site shall not give rise to noise levels off-site, at noise sensitive locations, which exceed the following sound pressure limits (Leq,15 min) subject to Condition 3 of this licence:
- 8.2.1 Daytime: 55 dB(A),
- 8.2.2 Night-time: 45 dB(A).
- 8.3 There shall be no clearly audible tonal component or impulsive component in the noise emission from the activity at any noise sensitive location.

Reason: To provide for the protection of the environment by control of noise.

Condition 9. Non-Process Water

- 9.1 Surface water
- 9.1.1 A visual examination of the surface water discharge shall be carried out weekly. A log of such inspections shall be maintained.
- 9.1.2 In the event that any analyses or observations made on the quality or appearance of surface water runoff should indicate that contamination has taken place, the licensee shall
- (i) carry out an immediate investigation to identify and isolate the source of the contamination,
 - (ii) put in place measures to prevent further contamination and to minimise the effects of any contamination on the environment,
 - (iii) and notify the Agency as soon as is practicable.
- 9.1.3 The discharge point of the surface water drain serving the centre of the site shall be located and a drawing showing its location submitted to the agency within three months of the date of grant of this licence.

9.2 Groundwater

9.2.1 No potentially polluting substance or matter shall be permitted to discharge to ground or groundwater under the site.

9.3 Facilities for the Protection of Groundwater and Surface Water

9.3.1 All tank and drum storage areas shall be rendered impervious to the materials stored therein. In addition, tank and drum storage areas shall from the date of grant of licence, as a minimum be bunded, either locally or remotely, to a volume not less than the greater of the following;

- (i) 110% of the capacity of the largest tank or drum within the bunded area,
- (ii) 25% of the total volume of substance which could be stored within the bunded area.

Drainage from bunded areas shall be diverted for collection and safe disposal. All bunds shall be tested at least once every three years. A report on such tests shall be included in the AER.

9.3.2 The integrity and water tightness of all the bunding structures and their resistance to penetration by water or other materials stored therein shall be tested and demonstrated by the licensee to the satisfaction of the Agency and shall be reported to the Agency within three months from the date of grant of this licence.

9.3.3 The loading and unloading of materials shall be carried out in designated areas protected against spillage and leachate run - off. While awaiting recovery/disposal, all materials shall be collected and stored in designated areas protected against spillage and leachate run - off.

9.3.4 The licensee shall undertake a programme of testing and inspection of underground tanks and pipelines to ensure that all underground effluent and foul sewer pipes are tested at least once every three years. A report on such tests shall be included in the AER.

9.3.5 All flanges and valves on over-ground pipes used to transport materials other than uncontaminated water, where no permanent provision for containment of leaks is provided, shall be subject to fortnightly visual inspection or otherwise monitored for leaks to the satisfaction of the Agency. All such inspections shall be recorded in a log which shall be available for inspection by Agency.

9.3.6 The licensee shall have in storage an adequate supply of containment booms and suitable absorbent material to contain and absorb any spillage.

9.3.7 The licensee shall within twelve months from the date of grant of this licence present a report to the Agency outlining the nature and extent of any historical waste disposal on site. This report should detail the likely effects, if any, on environmental media, and include a suitable proposal for monitoring of these effects and/or remediation of the site.

9.3.8 Storage of any fuels or lubricants at the clay pits is prohibited.

Reason: To provide for the protection of surface waters and groundwater.

Condition 10. Monitoring

- 10.1 The licensee shall carry out such sampling, analyses, measurements, examinations, maintenance and calibrations as set out in Schedules:-
Schedule 1(ii) Monitoring of Emissions to Atmosphere,
Schedule 2(ii) Monitoring of Emissions to Water,
of this licence.
- 10.2 Monitoring and analysis equipment shall be operated and maintained as necessary so that monitoring accurately reflects the emission or discharge.
- 10.3 The frequency, methods and scope of monitoring, sampling and analyses, as set out in this licence, may be amended with the written agreement of the Agency following evaluation of test results.
- 10.4 The licensee shall install on all emission points such sampling points or equipment, including any data-logging or other electronic communication equipment, as may be required by the Agency. All such equipment shall be consistent with the safe operation of all sampling and monitoring systems.
- 10.5 The licensee shall provide safe and permanent access to the following sampling and monitoring points:
- 10.5.1 Final effluent as discharged from the site.
 - 10.5.2 Emission to atmosphere sampling points.
 - 10.5.3 Waste storage areas on-site.
- and safe access to any other sampling and monitoring points required by the Agency.

Reason: To ensure compliance with the requirements of other conditions of this licence by provision of a satisfactory system of measurement and monitoring of emissions.

Condition 11. Energy Use

- 11.1 The licensee shall carry out an audit of the energy efficiency of the site within one year of the date of grant of this licence. The licensee shall consult with the Agency on the nature and extent of the audit and shall develop an audit programme to the satisfaction of the Agency. The audit programme shall be submitted to the Agency in writing at least one month before the audit is to be carried out. A copy of the audit report shall be available on-site for inspection by authorised persons of the Agency and a summary of the audit findings shall be submitted as part of the Annual Environmental Report. The energy efficiency audit shall be repeated at intervals as required by the Agency.
- 11.2 The audit shall identify all opportunities for energy use reduction and efficiency and the recommendations of the audit will be incorporated into the Schedule of Environmental Objectives and Targets under Condition 2.2 above.

Reason: To provide for the efficient use of energy in all site operations.

Condition 12. Recording and Reporting to Agency

- 12.1 The licensee shall record all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence.
- 12.2 The licensee shall record all incidents which affect the normal operation of the activity and which may create an environmental risk.
- 12.3 The licensee shall record all complaints of an environmental nature related to the operation of the activity. Each such record shall give details of the date and time of the complaint, the name of the complainant and give details of the nature of the complaint. A record shall also be kept of the response made in the case of each complaint. The licensee shall submit a report to the Agency, during the month following such complaints, giving details of any complaints which arise. A summary of the number and nature of complaints received shall be included in the AER.
- 12.4 The format of all records required by this licence shall be to the satisfaction of the Agency. Records shall be retained on-site for a period of not less than seven years and shall be available for inspection by the Agency at all reasonable times.
- 12.5 Reports of all recording, sampling, analyses, measurements, examinations, calibrations and maintenance as set out in *Schedule 4(i) Recording and Reporting to the Agency* of this licence, shall be submitted to the Agency Headquarters as specified in this licence. The format of these reports shall be to the satisfaction of the Agency. One original and three copies shall be submitted as and when specified.
- 12.6 Provision shall also be made for the transfer of environmental information, in relation to this licence, to the Agency's computer system, as may be requested by the Agency.
- 12.7 All reports shall be certified accurate and representative by the licensee's Plant Manager or other senior officer designated by the Plant Manager.
- 12.8 All written procedures controlling operations affecting this licence shall be available on-site for inspection by the Agency at all reasonable times.
- 12.9 The frequency and scope of reporting, as set out in this licence, may be amended with the written agreement of the Agency following evaluation of test results.

Reason: To provide for the collection and reporting of adequate information on the activity.

Condition 13. Accidents and Emergency Response

- 13.1 The licensee shall, within six months of the date of grant of this licence, ensure that a documented Accident Prevention Policy is in place which will address the hazards on-site, particularly in relation to the prevention of accidents with a possible impact on the environment.
- 13.2 The licensee shall, within six months of the date of grant of this licence, ensure that a documented Emergency Response Procedure is in place, which shall address any emergency situation which may originate on-site. This Procedure shall include provision for minimising the effects of any emergency on the environment.
- 13.3 The Accident Prevention Policy and Emergency Response Procedure shall be reviewed annually and up-dated as necessary. These policies and procedures shall be made available on-site for inspection by the Agency at all reasonable times.

Reason: To provide for the protection of the environment.

Condition 14. Residuals Management & Quarry Site Restoration

- 14.1 Following termination, or planned cessation for a period greater than six months, of use or involvement of all or part of the site in the licensed activity, the licensee shall decommission, render safe or remove for disposal/recovery, any soil, subsoils, buildings, plant or equipment, or any waste, materials or substances or other matter contained therein or thereon, that may result in environmental pollution.
- 14.2 Residuals Management & Restoration Plan:
- 14.2.1 The licensee shall prepare, to the satisfaction of the Agency, a fully detailed and costed plan for the decommissioning or closure of the site or part thereof. This plan shall be submitted to the Agency for agreement within six months of the date of grant of this licence.
- 14.2.2 The plan shall be reviewed annually and proposed amendments thereto notified to the Agency for agreement as part of the AER. No amendments may be implemented without the written agreement of the Agency.
- 14.3 The Residuals Management & Restoration Plan shall include as a minimum, the following:
- 14.3.1 A scope statement for the plan.
- 14.3.2 The criteria which define the successful decommissioning of the activity or part thereof, which ensures minimum impact to the environment.
- 14.3.3 A programme to achieve the stated criteria.
- 14.3.4 Where relevant, a test programme to demonstrate the successful implementation of the decommissioning plan.
- 14.4 A final validation report to include a certificate of completion for the residuals management plan, for all or part of the site as necessary, shall be submitted to the Agency within three months of execution of the plan. The licensee shall carry out such tests, investigations or submit certification, as requested by the Agency, to confirm that there is no continuing risk to the environment.

Reason: To make provision for the proper closure of the activity ensuring protection of the environment.

Condition 15. Financial Provisions

- 15.1 Agency Charges
- 15.1.1 The licensee shall pay to the Agency an annual contribution of £3,941, (Euro – 5,004) or such sum as the Agency from time to time determines, towards the cost of monitoring the activity as the Agency considers necessary for the performance of its functions under the Environmental Protection Agency Act, 1992. The licensee shall in 2002 and subsequent years, not later than January 31 of each year, pay to the Agency this amount updated in accordance with changes in the Public Sector Average Earnings Indices from the date of the licence to the

renewal date. The updated amount shall be notified to the licensee by the Agency. For 2001, the licensee shall pay a pro rata amount from the date of this licence to December 31 2001. This amount shall be paid to the Agency within one month of the date of grant of this licence.

Reason: To provide for adequate financing for monitoring and financial provisions for measures to protect the environment.

Schedule 1(i) Emissions to Atmosphere

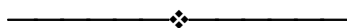
Emission Point Reference No.: A2-1
Location: Tunnel kiln
Volume to be emitted: Maximum in any one day: 480,000 m³
 Maximum rate per hour: 20,000 m³
Minimum discharge height: 18 m above ground

Parameter	Emission Limit Value (mg/m ³)
Sulphur dioxide	500
CO	200
Particulates	50
Chlorides (as HCl)	30
Fluorides (as HF)	10



Emission Point Reference No.: Stack A
Location: Kiln 2 (New Kiln)
Volume to be emitted: Maximum in any one day: 360,000 m³
 Maximum rate per hour: 15,000 m³
Minimum discharge height: 15m above ground

Parameter	Emission Limit Value (mg/m ³)
Sulphur dioxide	500
CO	200
Particulates	50
Chlorides (as HCl)	30
Fluorides (as HF)	10



Schedule 1(ii) Monitoring of Emissions to Atmosphere

Emission Point Reference No's.: A2-1, and Stack A

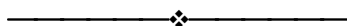
Parameter	Monitoring Frequency	Analysis Method/Technique
Sulphur dioxide	Annually	Flue gas analyser
CO	Annually	Flue gas analyser
Particulates	Annually	Isokinetic/Gravimetric
Chlorides (as HCl)	Quarterly	Ion Chromatography
Fluorides (as HF)	Quarterly	Ion Chromatography



Schedule 2(i) Emissions to Water

Emission Point Reference No.: SW-3
Name of Receiving Waters: River Clogh
Location: Settlement Pond Outlet

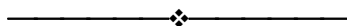
Parameter	Emission Limit Value (mg/l)
Suspended solids	25



Schedule 2(ii) Monitoring of Emissions to Water

Emission Point Reference No.: SW-3

Parameter	Monitoring Frequency	Analysis Method/Technique
Suspended Solids	Monthly	Gravimetric



Schedule 3(i) Hazardous Wastes for Disposal/Recovery

Waste Materials	Further Treatment, Recovery/Recycling On-Site ^{Note 1}	On-Site Reuse ^{Note 1}	Method of Disposal/Recovery ^{Note 2}
Utilities Waste Oils	None	None	Agreed hazardous waste recovery contractor.
Batteries and Fluorescent Tubes	None	None	Agreed hazardous waste recovery contractor.
Other ^{Note 3}			

Note 1: The licensee may treat, reuse, recycle or recover waste subject to the prior written agreement of the Agency.

Note 2: Any variation from those contractors named in the IPC Licence application, or subsequent agreements, must have the prior written agreement of the Agency. In cases where a previously agreed waste contractor is considered by the Agency not to exercise due care in respect of the transport and disposal of the licensee's waste, the Agency may at any time instruct a licensee to stop using this contractor.

Note 3: No other hazardous waste shall be disposed of/recovered off-site or on site without prior notice to, and prior written agreement of the Agency.

**Schedule 3(ii) Other Wastes for Disposal/Recovery**

Waste Materials	Further Treatment, Recovery/Recycling On-Site ^{Note 1}	On-Site Reuse ^{Note 1}	Method of Disposal/Recovery ^{Note 2}
Domestic and canteen waste	None	None	Agreed disposal contractor.
Grog	None	None	Sold as fill to construction industry.
Greenware	None	Reused in process	
Packaging	None	None	Agreed disposal contractor.
Other ^{Note 3}			

Note 1: The licensee may treat, reuse, recycle or recover waste subject to the prior written agreement of the Agency.

Note 2: Any variation from those contractors named in the IPC Licence application, or subsequent agreements, must have the prior written agreement of the Agency. In cases where a previously agreed waste contractor is considered by the Agency not to exercise due care in respect of the transport and disposal of the licensee's waste, the Agency may at any time instruct a licensee to stop using this contractor.

Note 3: No other waste shall be disposed of/recovered off-site without prior notice to, and prior written agreement of the Agency.



Schedule 4(i) Recording and Reporting to the Agency

Completed reports shall be submitted to:

The Environmental Protection Agency
P.O. Box 3000
Johnstown Castle Estate
County Wexford

or Any other address as may be specified by the Agency

Reports are required to be forwarded as set out below:

Recurring Reports:

Report	Reporting Frequency	Report Submission Date
Monitoring of emissions to atmosphere	Quarterly	Ten days after end of the quarter being reported on.
Monitoring of emissions to water	Quarterly	Ten days after end of the quarter being reported on.
Noise monitoring programme	Annually	One month prior to survey
Complaints (where these arise)	Monthly	Ten days after end of the month being reported on.
Programme for an energy efficiency audit	-----	Within eleven months from the date of grant of licence and thereafter as may be required by the Agency.
Annual Environment Report(AER)	Annually	Eighteen months from the date of grant of licence and each year thereafter.

Annual Environmental Report Content

Emissions to atmosphere summary.
Emissions to water summary.
Waste management report.
Resource consumption summary.
Complaints summary.
Schedule of Environmental Objectives and Targets
Environmental management programme - proposal
Environmental management programme - report
Noise monitoring report
Energy efficiency audit report.
Tank and pipeline testing and inspection report
Reported incidents summary
Review of residuals management & quarry restoration plan
Energy efficiency audit report summary

Once-off Reports:

Report	Report Submission Date
Bund integrity assessment.	Within three months of the date of grant of licence.
Nature and extent of historical dumping.	Within twelve months of the date of grant of licence.
Environmental management programme proposal.	Within six months from the date of grant of licence.
Residuals Management Plan	Within six months of the date of grant of licence.
Residuals validation report	Within three months of execution of plan.



Signed on behalf of the Agency

Jacinta Longworth

Authorised Person

Dated this 2nd day of October, 2001