



APPENDIX 3

IPC LICENCE P0500-01

This licence was amended on the 5th October 2012 under Section (96)(1) of the Environmental Protection Agency Acts, as amended. The details of Amendment A must be read in conjunction with the licence. The amendment document is entitled “Technical Amendment A”.



Headquarters,
Johnstown Castle Estate,
County Wexford, Ireland

INTEGRATED POLLUTION CONTROL LICENCE

Licence Register Number:	500
Licensee:	Bord na Móna Energy Limited
Location of Activity:	Boora Group c/o Boora Works Leabeg Tullamore County Offaly

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Glossary of Terms

The Agency	Environmental Protection Agency.
The Licensee	Bord na Móna Energy Limited, Boora, Leabeg, Tullamore, County Offaly.
Location of Activity	Boora Works, Leabeg, Tullamore, County Offaly.
AER	Annual Environmental Report.
Annually	All or part of a period of twelve consecutive months.
BATNEEC	Best Available Technology Not Entailing Excessive Cost.
Bi-annually	All or part of a period of six consecutive months.
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 hr. period.
Daytime	0800 hrs to 2200 hrs.
dB(A)	Decibels (A weighted).
Dust 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 dust at nuisance levels.
EMP	Environmental Management Programme.
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.
Leq	Equivalent continuous sound level.
Lighting-up time	30 minutes after sun set.
Local Authority	Offaly County Council, Westmeath County Council and Laois County Council.
Monthly	At least 12 times per year at approximately monthly intervals.
NHA	National Heritage Area.

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.
Quarterly	All or part of a period of three consecutive months beginning on the first day of January, April, July or October.
Screenings	Wood, stone and other debris removed from milled peat (by screening) prior to introduction to processing.
SAC	Special Area of Conservation.
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) 19th Ed. 1995, American Public Health Association, 1015 Fifteenth Street, N.W., Washington DC 20005, USA.
TA Luft	Technical Instructions on Air Quality Control - TA Luft in accordance with art. 48 of the Federal Immission Control Law (BImSchG) dated 15 March 1974 (BGBl. I p.721). Federal Ministry for Environment, Bonn 1986 and amendments.
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, all submissions and objections received and the report of its inspectors.

Activities Licensed

In pursuance of the powers conferred on it by the Environmental Protection Agency Act, 1992, the Agency hereby grants a licence to:

Bord na Móna Energy Limited, Boora, Leabeg, Tullamore, County Offaly

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

:- the extraction of peat in the course of business which involves an area exceeding 50 hectares,

at lands labelled as Boora Group on Location Map Drawings 2.1 and 2.2 (Attachment 2) of the IPC Application subject to the following fourteen 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 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 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 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 area outlined in black and labelled Boora Group on Location Map Drawings 2.1 and 2.2 of Attachment 2 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 2.7 below:
- 2.2 Environmental Management Programme (EMP)
- 2.2.1 The licensee shall, not later than six months from the date of grant of this licence, establish, maintain and submit to the Agency for Agreement an EMP, including a time schedule, for achieving objectives and targets. The EMP shall thereafter, form part of the AER and shall be agreed with the Agency prior to implementation. 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.

2.2.2 The EMP shall as a minimum include the following objectives:

- (i) Minimisation of suspended solids movement to surface water systems via peatland surface water drainage channels during development and operation of boglands.
- (ii) Rationalisation of surface water discharge points.
- (iii) Investigation of reed-bed systems for final polish of silt pond discharges.
- (iv) Reduction of fugitive dust emissions during loading and transfer operation on the bog and during unloading operations at the tippler and works yard areas.
- (v) Provision of measures to protect dust sensitive areas.
- (vi) Reuse of silt pond waste.
- (vii) Collection, storage and reuse of polythene covering.
- (viii) Use of reusable material for stockpile protection.
- (ix) Use of wind power technology for pumped drainage.
- (x) Separation of storm water runoff from process and non process areas.
- (xi) Effective spill/leak management of mobile fuelling units.
- (xii) Replacement (and remediation where necessary) of all underground fuel tanks.

2.2.3 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.

2.3 Documentation

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

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

2.4 Corrective Action

2.4.1 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.

2.5 Awareness and Training

2.5.1 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.

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

2.6 Responsibilities

- 2.6.1 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.

2.7 Communications

- 2.7.1 The licensee shall, within six months of 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.
- 2.7.2 The licensee shall submit to the Agency, by 1 March each year, an AER which shall be to the satisfaction of the Agency. This report shall include as a minimum the information specified in *Schedule 4 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 Dust deposition at Dust Sensitive Locations

- (i) No value shall exceed the emission limit value.

- 3.2 Emission limit values for emissions to water in this licence shall be interpreted in the following way:-

3.2.1 Non-Continuous Monitoring:

- (i) eight out of ten consecutive results, on the basis of 24hr flow proportionate composite sampling, shall not exceed the emission limit value. No individual daily result shall exceed 1.5 times the emission limit value.
- (ii) 75% of grab samples for each monitored discharge shall not exceed the emission limit value; and no individual grab sample value shall exceed 3 times the emission limit value.

3.3 Noise

- 3.3.1 Noise from the activity shall not give rise to sound pressure levels ($Leq,30 \text{ min.}$) measured at 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 to atmosphere resulting in significant impairment of, or significant interference with amenities or the environment.
 - 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 a 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 either the Southern or Shannon Regional Fisheries Board, as appropriate, 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 appropriate Local Authority as soon as practicable, after such an incident
- 4.6 In the case of any incident, as set out in Condition 4.1.3, which has the potential to impact the conservation objectives of any NHA or SAC site having taken place, the licensee shall notify Dúchas of the Department of Arts, Heritage, Gaeltacht and the Islands as soon as practicable after such an incident.
- 4.7 The licensee shall as part of their AER, or more frequently as may be necessary, notify the Agency of boglands, and discharges from same, intended to be included in the subsequent years development and operational programmes.

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

Condition 5 Emissions to Atmosphere

- 5.1 Boiler Combustion Efficiency shall be tested annually and results reported on annually as part of the AER.
- 5.2 The licensee shall ensure that all operations on-site shall be carried out in a manner such that air emissions and/or dust do not result in significant impairment of, or significant interference with amenities or the environment beyond the site boundary.

- 5.3 Within three months of the date of grant of the licence, the licensee shall submit to the Agency for agreement, a proposal for the identification and monitoring of Dust Sensitive Locations (DSL's) on and off site for dust deposition. A report on this monitoring shall be submitted annually as part of the AER.
- 5.4 Activities on-site shall not give rise to dust levels off site at any Dust Sensitive Location which exceed an emission limit of 350 mg/m²/day. [The sampling method to be in accordance with German TA Luft Emission Standards for Particle Deposition (IW1)].
- 5.5 In relation to Dust Control the licensee shall, within six months of date of grant of this licence, develop and implement procedures to ensure that:
- shelter belts are planted in sensitive areas,
 - harvesting in sensitive areas is avoided during windy weather,
 - where possible machinery use grassed pathways,
 - headlands are kept clean and free of excessive loose peat,
 - stockpiles are sheeted where possible,
 - moving machinery maintains slow speeds when travelling along dusty headlands,
 - when harvesting, the jib is maintained low to the stockpile,
 - shelter belts are planted around outloading facilities,
 - road transported peat is adequately covered (sheeted or similar),
 - wind breaks are planted where-ever possible.

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 1(i) Emissions to Water* subject to Condition 3 of this licence. There shall be no other emissions to water of environmental significance.
- 6.2 The licensee shall within three months of date of grant of this licence submit to the Agency for approval, a proposal for a surface water discharge monitoring location programme. This programme shall, *inter alia*, have regard to the current status of each bogland (virgin, under development, operational or worked out), sensitivity of the receiving water, status of silt pond upgrade programme. This programme shall be reviewed and revised as necessary each year as part of the AER.
- 6.3 The licensee shall, within six months of date of grant of licence, present a proposal for the installation (on a long term basis) of a composite sampler to one representative discharge point within the licensed area. The proposal shall set out the rationale for selection of the nominated discharge point as well as the sampling programme. The results of this monitoring are to be reported each year as part of the AER. Any proposal to relocate the composite sampler is to be dealt with under Condition 6.2.
- 6.4 Monitoring and analyses of each agreed emission monitoring location shall be carried out as specified in *Schedule 1(ii) Monitoring of Emissions to Water* of this licence. A report on the results of this monitoring shall be submitted to the Agency quarterly.
- 6.5 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.

- 6.6 The licensee shall, within six months of the date of grant of licence submit to the Agency for Agreement, a programme to ensure that all drainage water from all boglands in the licensed area is discharged via an appropriately designed silt pond treatment arrangement. The programme, to be implemented within a period to be agreed with the Agency, shall ensure that all discharges associated with operational boglands are prioritised.
- 6.7 Within three months of the date of grant of licence, the licensee shall prepare an operational procedure for de-silting of the silt ponds. The procedure shall as a minimum provide for visual inspection of all ponds on a fortnightly basis. The de-silting roster shall be based on recommendations of such visual inspection. A log of visual inspection and de-silting shall be maintained and a summary report on the de-silting programme shall be included in the AER. The licensee shall within twelve months of the date of grant of the licence demonstrate to the satisfaction of the Agency that the programme of inspection is adequate.
- 6.8 Silt ponds serving operational bogs shall be cleaned as a minimum twice a year, once before ditching and once before harvesting, and more frequently as inspections may dictate (refer Condition 6.7).
- 6.9 Within six months of the date of grant of licence, the licensee shall submit a programme, for agreement with the Agency, to upgrade the sedimentation pond treatment system. The programme shall, *inter alia*, address provision of additional ponds, weir or pipe installation (inlet and outlet), pond configuration, use of baffles, performance efficiency and frequency of de-silting. The upgrade programme, to be implemented within a period to be agreed with the Agency, shall have regard to the minimum silt pond specifications detailed in Condition 6.10.
- 6.10 Within three years of date of grant of this licence all existing silt ponds serving operational bogs shall achieve the following minimum performance criteria (flood periods excepted):
- Maximum flow velocity $< 10 \text{ cms}^{-1}$
 - Silt design capacity of lagoons, minimum 50m^3 per nett ha of bog serviced
- All new ponds installed shall be designed to achieve these stated minimum design criteria.
- 6.11 All silt ponds prone to flooding shall be de-silted by 1st November of each year. Excavated sludge shall be removed for disposal to a location outside the flood plain.
- 6.12 In respect of silt control the licensee shall, within six months of date of grant of this licence, prepare and implement procedures to ensure that:
- drainage manholes are protected and maintained free of excessive peat,
 - headlands are kept clean and free of excessive loose peat,
 - all new manholes and outfalls are set well back from turning grounds, drivers of bog plant do not turn short (over drains) at headlands,
 - harrows, millers, ridgers do not drag loose peat onto manholes or into drains, outside harrow spoons are directed away from drains,
 - silt run-off while piping or ditching, is minimised,
 - outfalls are controlled to minimise silt discharge during cleaning operations,
 - drains are ditched in dry weather,

- while ditching, outfalls are blocked and ditch towards outfall,
- outlets from stockpile field drains are blocked during stockpile loading,
- field drains adjacent to stockpiles are cleaned as soon as practicable after stockpile loading,
- adequate room is allowed for rail bed beside Peco stockpiles,
- all fields that have been milled are ridged at the end of the production season,
- all fields liable to winter flooding have been cleared of milled peat or re-compacted at the end of the production season.

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 2(i) Hazardous Wastes for Disposal/Recovery* and *Schedule 2(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 2(i) Hazardous Wastes for Disposal/Recovery* and *Schedule 2(ii) Other Wastes for Disposal/Recovery* sent off-site for disposal/recovery.
 - 7.3.6. Details of any rejected consignments.
- A copy of this Waste Management record shall be submitted to the Agency as part of the AER for the site.
- 7.4 Within nine months of the date of grant of licence, the licensee shall submit to the Agency for agreement, a proposal for identification and management of all ash and screening disposal areas. Once agreed, the proposal shall be implemented within a time-scale stipulated by the Agency

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

Condition 8 Noise

- 8.1 Activities on-site shall not give rise to noise levels off site at any noise sensitive location which exceed the following sound pressure limits (Leq,_{30min}) subject to Condition 3 :
- Daytime: 55 dB(A)
Night-time: 45 dB(A).
- 8.2 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 Water Protection

- 9.1 Surface & Groundwater Protection - Workshop areas and Depots
- 9.1.1 No potentially polluting substance or matter shall be permitted to discharge to off-site surface waters, off site storm drains or groundwaters.
- 9.1.2 Monitoring and analyses of each surface water discharge shall be carried out as specified in *Schedule 3 Monitoring of Workshop/Depot Surface Water Run-off* of this licence. A report on the results of this monitoring shall be submitted to the Agency quarterly
- 9.1.3 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.
- 9.1.4 Within twelve months of the date of grant of licence, all tank and drum storage areas shall be rendered impervious to the materials stored therein. In addition, tank and drum storage areas shall, 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.
- 9.1.5 Drainage from bunded areas shall be diverted for collection and safe disposal.
- 9.1.6 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 eighteen months from the date of grant of

this licence and every two years thereafter. A report on such tests shall be included in the AER.

- 9.1.7 Within twelve months of the date of grant of licence, the loading and unloading of fuel oils shall be carried out in designated areas protected against spillage and leachate run-off. While awaiting disposal, all materials shall be collected and stored in designated areas protected against spillage and leachate run-off.
- 9.1.8 With the exception of roof water, all surface water discharges from workshop areas shall, within twenty-four months of date of grant of this licence, be fitted with oil interceptors.
- 9.1.9 A maintenance/cleaning log for all oil interceptors and septic tanks shall be maintained. This log shall also record the observations made during weekly inspections of all oil interceptors and bi-annual inspections of septic tanks.
- 9.1.10 An inspection for leaks on all flanges and valves on over-ground pipes used to transport materials other than water shall be carried out weekly. A log of such inspection shall be maintained.
- 9.1.11 The licensee shall have in storage an adequate supply of containment booms and/or suitable absorbent material to contain and absorb any spillage.
- 9.1.12 The licensee shall maintain a log of bi-annual inspections of all rail and tractor transported fuelling units. These inspections as a minimum should record any damage or leaks or flaws in rolling stock that could result in accidental spillage.

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

Condition 10 Cutaway Bog Rehabilitation

- 10.1 Following termination of use or involvement of all or part of the site in the licensed activity, the licensee shall:
 - 10.1.1 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.
 - 10.1.2 Implement the agreed cutaway bog rehabilitation plan (refer Condition 10.2).
- 10.2 Cutaway Bog Rehabilitation Plan:
 - 10.2.1 The licensee shall prepare, to the satisfaction of the Agency, a fully detailed and costed plan for permanent rehabilitation of the cutaway boglands within the licensed area. This plan shall be submitted to the Agency for agreement within eighteen months of the date of grant of this licence.
 - 10.2.2 The plan shall be reviewed every two years 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.
- 10.3 The Rehabilitation Plan shall include as a minimum, the following:
 - 10.3.1 A scope statement for the plan; to include outcome of consultations with relevant Agencies, Authorities and affected parties (to be identified by the licensee).

- 10.3.2 The criteria which define the successful rehabilitation of the activity or part thereof, which ensures minimum impact to the environment.
- 10.3.3 A programme to achieve the stated criteria.
- 10.3.4 Where relevant, a test programme to demonstrate the successful implementation of the rehabilitation plan.
- 10.3.5 A programme for aftercare and maintenance.
- 10.4 A final validation report to include a certificate of completion for the Rehabilitation Plan, for all or part of the site as necessary, shall be submitted to the Agency within six 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.

<i>Reason: To make provision for the proper closure of the activity ensuring protection of the environment.</i>
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Condition 11 Monitoring

- 11.1 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 Water

Schedule 3(i) Monitoring of Workshop/Depot Surface Water Run-off

of this licence.

- 11.2 Where the ability to measure a parameter is affected by mixing before emission, then, with prior written agreement from the Agency, the parameter may be assessed before mixing takes place.
- 11.3 All automatic monitors and samplers shall be functioning at all times (except during maintenance and calibration) when the activity is being carried on unless alternative sampling or monitoring has been agreed in writing by the Agency for a limited period. Prior written agreement for the use of alternative equipment, other than in emergency situations, shall be obtained from the Agency.
- 11.4 Monitoring and analysis equipment shall be operated and maintained as necessary so that monitoring accurately reflects the emission or discharge.
- 11.5 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.
- 11.6 The licensee shall provide signage to clearly identify and label all emission points.
- 11.7 The licensee shall install on all emission points such sampling 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.
- 11.8 The licensee shall provide safe and permanent access to the following sampling and monitoring points:

- (i) Waste storage areas on-site,
 - (ii) Surface water discharges,
 - (iii) Dust sampling locations,
- 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 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 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 Emergency Response

- 13.1 The licensee shall, within six months of 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.

Reason: To provide for the protection of the environment.

Condition 14 Financial Provisions

14.1 Agency Charges

- 14.1.1 The licensee shall pay to the Agency an annual contribution of £4080 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 2001 and subsequent years, not later than January 31 of each year, pay to the Agency this amount updated in accordance with changes in the Consumer Price Index from the date of the licence to the renewal date. The updated amount shall be notified to the licensee by the Agency. For 2000, the licensee shall pay a pro rata amount from the date of this licence to December 31 2000. 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 Water

Emission Point Reference No.: All surface water outfalls from boglands within the licensed area

Location : As detailed in Section 11 and Attachment 11 of the IPC licence application form, and any additional locations as may be agreed under Condition 4.7

Parameter	Emission Limit Value
Suspended Solids	35mg/l



Schedule 1(ii) Monitoring of Emissions to Water

Emission Point Reference No's.: As agreed under Condition 6.2

Parameter	Monitoring Frequency	Analysis Method/Technique
PH	Quarterly	Standard Methods
Flow	Quarterly	Agreed Method
Suspended Solids	Quarterly	Standard Methods
Total Phosphorus (as P)	Quarterly	Standard Methods
Ammonia (as N)	Quarterly	Standard Methods
Colour	Quarterly	Standard Methods
COD	Quarterly	Standard Methods



Schedule 2(i) Hazardous Wastes for Disposal/Recovery

Waste Materials	Method of disposal/recovery ^{Notes 1, 2, 3}
Lubricating Oils	Agreed hazardous waste disposal contractor.
Hydraulic Oils	Agreed hazardous waste disposal contractor.
Oil/Fuel Filters	Agreed hazardous waste disposal contractor.
Lead Acid Batteries	Agreed hazardous waste disposal contractor.
Florescent lights	Agreed hazardous waste disposal contractor.
Degreasing still-bottoms	Agreed hazardous waste disposal contractor.
Anti- freeze liquid	Agreed hazardous waste disposal contractor.
Other ^{Note 4}	

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 licensees waste, the Agency may at any time instruct a licensee to stop using this contractor.

Note 3: Other method to be agreed with the Agency

Note 4: No other waste shall be disposed of/recovered on or off-site without prior notice to, and prior written agreement of the Agency.

Schedule 2(ii) Other Wastes for Disposal/Recovery

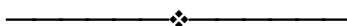
Waste Materials	Method of disposal/recovery Notes 1, 2, 3
Scrap Metal / Welding Rods	Agreed waste recovery contractor.
Ash/Cinders	Agreed waste disposal contractor/On- site landfill.
Polythene covering	Agreed recycling disposal contractor.
Wooden pallets and timber	Agreed waste disposal/recovery contractor.
Hand cleansing rags	Agreed waste disposal contractor.
Paint waste	Agreed waste disposal contractor.
General Office & Canteen Waste	Agreed waste disposal contractor.
Other Note 4	

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: Other method to be agreed with the Agency

Note 4: No other waste shall be disposed of/recovered on or off-site without prior notice to, and prior written agreement of the Agency.



Schedule 3(i) Monitoring of Workshop/Depot Surface Water Run-off

Emission Point Reference No's.: All surface water discharges from workshops and depots associated with the licensed activity

Parameter	Monitoring Frequency	Analysis Method/Technique
Visual	Weekly	-
COD	Monthly	Standard Methods



Schedule 4 Recording and Reporting to the Agency

Completed reports shall be submitted to: The Environmental Protection Agency
Headquarters
Johnstown Castle Estate
Co Wexford
Ireland

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
Surface Water (Schedule 1(ii) and Schedule 3)	Quarterly	Ten days after end of the quarter being reported on.
Complaints (where these arise)	Monthly	Ten days after end of the month being reported on.
Annual Environment Report(AER)	Annually	1 March of each year

Annual Environmental Report Content	
- Emissions to water summary - Waste management report. - Resource consumption summary - Complaints summary - Air emissions report - Report on de-silting programme	- Surface water discharge monitoring location programme - Environmental management programme - proposal - Environmental management programme - report - Reported incidents summary - Bog development and operational programme - Bog rehabilitation progress report

Once-off Reports:

Report	Report Submission Date
Bund integrity assessment.	Within eighteen months of the date of grant of licence.
Environmental management programme proposal.	Within six months of the date of grant of licence.
Proposal for dust monitoring locations (condition 5.3)	Within three months of the date of grant of licence.
Proposal for surface water monitoring locations (condition 6.2)	Within three months of the date of grant of licence.
Proposal for composite sampling of surface water (condition 6.3)	Within six months of the date of grant of licence.
Programme for fitting of silt ponds to all bog discharges (condition 6.6)	Within six months of the date of grant of licence.
Upgrade of sedimentation pond treatment system (condition 6.9)	Within six months of the date of grant of licence.
Proposal for screenings disposal (condition 7.4)	Within nine months of the date of grant of licence.
Bog rehabilitation programme (condition 10.2)	Within eighteen months of the date of grant of licence.

Signed on behalf of the Agency

Iain Maclean

Director/Authorised Person

Dated this 18th day of May 2000



Headquarters
P.O. Box 3000
Johnstown Castle Estate
County Wexford
Ireland

TECHNICAL AMENDMENT A
TO
IPPC LICENCE

Licence Register Number:	P0500-01
Licensee:	Bord na Móna Energy Limited
Location of Facility:	Boora Group, c/o Boora Works, Leabeg, Tullamore, County Offaly.

Reasons for the Decision

The Environmental Protection Agency is satisfied, on the basis of the information available, that subject to compliance with the conditions of Integrated Pollution Prevention and Control (IPPC) licence Reg. No. P0500-01 granted on the 18th May 2000, as well as any amendments noted herein, any emissions from the activity will comply with and not contravene any of the requirements of Section 83(5) of the Environmental Protection Agency Acts, 1992 to 2012

Technical Amendment

In pursuance of the powers conferred on it by Section 96(1)(c) of the Environmental Protection Agency Acts, 1992 to 2012, the Agency amends the licence, granted to Bord na Mona Energy Limited, Boora Group, c/o Boora Works, Leabeg, Tullamore, County Offaly.

Henceforth, the licence shall be read in conjunction with the amendments set out below.

This technical amendment is limited to the following Glossary of Terms and Conditions:

Amendments

Amend Glossary of Terms by the insertion of the following

Extractive waste	As defined in regulation 3(2) of the Waste Management (Management of Waste from the Extractive Industries) Regulations 2009, SI 566 of 2009.
Sanitary effluent	Wastewater from installation toilet, washroom and canteen facilities.
Trigger level	A parameter value, the achievement or exceedance of which requires certain actions to be taken by the licensee.
Waste facility	As defined in regulation 3(2) of the Waste Management (Management of Waste from the Extractive Industries) Regulations 2009, SI 566 of 2009.

New and Amended Conditions

Amend condition 6.2 of the licence to read as follows.

- 6.2 The licensee shall, by the 1st February 2013, submit for agreement by the Agency a revised proposal for a surface water discharge monitoring programme. This programme shall have regard to the following:
- (i) The current status of each bogland (virgin, under development, operational or worked out);
 - (ii) The sensitivity of the receiving water;
 - (iii) The relevant River Basin Management Plan;
 - (iv) The nature, magnitude and variability of the discharges;
 - (v) The reliability of the silt ponds control measures; and,
 - (vi) The status of the silt pond upgrade programme.

The revised surface water discharge monitoring location programme shall ensure that a representative selection of all surface water emission points from boglands within the licensed area is monitored annually and that all emission points are monitored at least once every five years. Surface water emission points shall be monitored as set out in Schedule 1(ii) *Monitoring of Emissions to Water* of this licence.

Add condition 6.13 to include the following after condition 6.12.

- 6.13 The licensee shall trend the monitoring results for total ammonia and determine any statistically significant relationship that exists between the results and the current status of each bogland (virgin, under development, operational or worked out), rainfall, silt pond control measures or other factors. The licensee shall report annually as part of

the AER on the trends and on any statistically significant relationship identified.

Add condition 6.14 to include the following after condition 6.13.

- 6.14 The licensee shall, by 1st February 2013, establish a suitable trigger level for total ammonia in surface water discharges. The licensee shall have in place a response programme to address the attainment or exceedence of the trigger level value. This response programme shall include the necessary actions to ensure there will be no emissions to surface water of environmental significance.

Add condition 7.5 to include the following after condition 7.4.

7.5 Extractive Waste Management

The licensee shall draw up a Waste Management Plan (to be known as an Extractive Waste Management Plan) for the minimisation, treatment, recovery and disposal of extractive waste. This Plan shall meet the requirements of regulation 5 of the Waste Management (Management of Waste from the Extractive Industries) Regulations, 2009. The Plan shall be submitted for agreement by the Agency by the 31st December 2012. The Plan shall be reviewed at least once every five years thereafter in a manner agreeable to the Agency and amended in the event of substantial changes to the operation of a waste facility or to the waste deposited. Any amendments shall be notified to the Agency.

All extractive waste shall be managed in accordance with the Extractive Waste Management Plan. A report on the implementation of the Extractive Waste Management Plan shall be provided in the AER.

Add condition 7.6 to include the following after condition 7.5.

7.6 Waste Facility

- (i) No new waste facility may be developed or an existing waste facility modified unless agreed by the Agency.
- (ii) The licensee shall ensure that all existing waste facilities are managed and maintained to ensure their physical stability and to prevent pollution or contamination of soil, air, surface water or groundwater.
- (iii) The licensee shall ensure that all new waste facilities are constructed, managed and maintained to ensure their physical stability and to prevent pollution or contamination of soil, air, surface water or groundwater.

- (iv) Operational measures shall be continuously employed to prevent damage to waste facilities from personnel, plant or equipment.
- (v) The licensee shall establish and maintain a system for regular monitoring and inspection of waste facilities.
- (vi) All records of monitoring and inspection of waste facilities, as required under the licence, shall be maintained on-site in order to ensure the appropriate handover of information in the event of a change of operator or relevant personnel.

Add condition 7.7 to include the following after condition 7.6.

7.7 Excavation Voids

- 7.7.1 Unless otherwise agreed by the Agency, only extractive waste shall be placed in excavation voids.
- 7.7.2 When placing extractive waste into excavation voids for rehabilitation and construction purposes, the licensee shall, in accordance with regulation 10 of the Waste Management (Management of Waste from the Extractive Industries) Regulations, 2009, and the Extractive Waste Management Plan:
 - (i) Secure the stability of the waste.
 - (ii) Put in place measures to prevent pollution of soil, surface water and ground water.
 - (iii) Carry out monitoring of the extractive waste and excavation void.

Add condition 9.2 to include the following after condition 9.1.

9.2 Sanitary Effluent

The waste water treatment system and any percolation area used for the treatment of sanitary effluent arising on-site, shall, by the 1st August 2013, satisfy the criteria set out in the 'Code of Practice: Waste Water Treatment and Disposal Systems Serving Single Houses', published by the Environmental Protection Agency.

Amend Schedule 1(ii) Monitoring of Emissions to Water to read as follows:

Schedule 1(ii) Monitoring of Emissions to Water

Emission Point Reference No's.:

As agreed under Condition 6.2

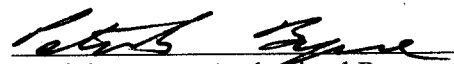
Parameter	Monitoring Frequency	Analysis Method/Technique
pH	Quarterly	Standard Methods
Flow	Quarterly	Agreed Method
Suspended Solids	Quarterly	Standard Methods
Total Solids	Quarterly	Standard Methods
Total Phosphorus (as P)	Quarterly	Standard Methods
Total Ammonia (as N)	Monthly ^{Note 1}	Standard Methods
Colour	Quarterly	Standard Methods
COD	Quarterly	Standard Methods

Note 1: The frequency of monitoring can be reduced with agreement by the Agency under Condition 11.5 of this licence.

This technical amendment shall be cited as Amendment A (in pursuance of Section 96(1)(c) of the EPA Acts 1992 to 2012) to IPPC Licence Register No. P0500-01.

Sealed by the Seal of the Agency on this the 5 day of October 2012

PRESENT when the seal of the Agency was affixed hereto


Patrick Byrne, Authorised Person