

**Objection to a Proposed Decision For A Waste Management Facility
Including A Non-Hazardous Waste Incinerator**

**Licence Register No. 167-1
Indaver Ireland (Branch of Indaver NV), Carranstown, Duleek, County Meath**

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1 Introduction

The purpose of this document is to seek clarification of a number of conditions attached to a Proposed Decision for a Waste Licence, Register No. 167-1

2 Part III: Glossary of Terms

Sludge

Indaver requests that the definition of 'sludge' be clarified as follows:

Sludge The accumulation of solids resulting from chemical coagulation, flocculation and/or sedimentation after water or wastewater treatment with greater than 2% dry matter. *This definition includes both organic and inorganic sludges.*

3 Condition 1. Scope

Condition 1.11: Duration of the Licence

Condition 1.11 limits the duration of the licence to 5 years from the date the licence is granted. Given the prolonged planning, licensing, judicial review and construction process of the development, which is not yet complete, we request that the condition be worded as follows:

1.11 Having regard to the nature of the works and arrangements necessary in connection with the commencement of the waste activities this licence shall have effect *for five years from the date of commencement of the licensed activities.*

4 Condition 3. Infrastructure And Operation

4.1 Condition 3.8: Residuals Storage Capacity

Condition 3.8 sets down requirements with respect to the capacity for the storage of residuals. It does not specify whether these are minimum or maximum values. A minimum capacity should be specified to provide for the safe and efficient operation of the facility. For this reason Indaver requests that the condition be clarified as follows:

3.8 The licensee shall provide the following *minimum* residual storage capacity:
(i) bottom ash: 1500m³ ;
(ii) boiler ash: 100m³ ;
(iii) fly ash /flue gas cleaning ash: 200m³ ; and
(iv) gypsum: 40m³ .

4.2 Condition 3.13: Surface Water Management

Condition 3.13.2 requires all surface water run-off from impermeable areas and buildings to be collected and used in the process.

The drainage system design proposed for the plant is summarised in Table 1 below.



Table 1 Surface Water Drainage Proposal

Rainwater Source		Potential contamination sources	Primary Use	Overflow	Environmental Protection
Incineration Plant	Roof of main building	None	As process water collected in the surface water tank	If capacity is available overflow from surface water tank to groundwater tank. If groundwater tank is full or in very wet conditions, particularly if plant is on shut down, overflow from surface water tank to drainage ditch	None required
	Roads, car park and hardstandings	Possible oil leak from car or truck	As process water	If capacity is available overflow from surface water tank to groundwater tank. If groundwater tank is full or in very wet conditions, particularly if plant is on shut down, overflow from surface water tank to drainage ditch	Water to pass through oil interceptor prior to entering surface water tank
Other Areas	Roofs of warehouse, administration building and pump house*	None	As process water	If capacity is available overflow from surface water tank to groundwater tank. If groundwater tank is full or in very wet conditions, particularly if plant is on shut down, overflow from surface water tank to drainage ditch	Water to pass through oil interceptor prior to entering surface water tank

*The rainwater from the roofs of these three buildings will be passed through an oil inceptor due to the configuration of the drainage system, not because of a perceived risk.

Indaver requests that the condition be reworded as follows:

- 3.13.2 Surface water runoff from impermeable surfaced areas and buildings in the incineration plant shall be collected and used as process water in the incineration plant *as far as practicable*.

4.3 Condition 3.14: Drainage System

4.3.1 Condition 3.14.2

Condition 3.14.2 requires all surface water discharges to pass through oil separators prior to discharge.

Indaver requests that the condition be reworded as follows:

- 3.14.2 The licensee shall install and maintain a settlement chamber and oil separators at the facility. Surface water discharges, *except from the roof of the main building*, shall pass through an oil separator prior to discharge. The oil separators shall be a Class II full retention separator and the separators shall be in accordance with European Standard prEN 858 (installations for the separation of light liquids).

4.3.2 Condition 3.14.3

Condition 3.14.3 is ambiguous. One possible interpretation is that all water in the drainage system should be collected for safe disposal.

Indaver requests that the condition be clarified as follows:

- 3.14.3 *The drainage system, bunds, and oil separators shall be desludged as necessary and properly maintained at all times. All sludge and drainage from these operations shall be collected for safe disposal.*

4.4 Condition 3.15: Existing Gas Main

Condition 3.15 requires a 40m way leave to be maintained for the gas main which crosses the site. This width is based on the application which contained an error with regard to the way leave width. Bord Gáis has required a permanent way leave total width of 14m, that is, a width of 7m either side of gas main. During construction of the pipeline Bord Gáis required a working strip total width of 18m. The gas main is 300mm diameter. A copy of Bord Gáis maps and landowner consent form is attached in Appendix 1. ✓

Indaver requests that condition 3.15.1 be clarified as follows:

- 3.15.1 The pathway for the existing 300 mm diameter gas main shall be clearly delineated on site. An on site way leave that provides a minimum width of 7 metres either side of the mains shall be provided by the licensee.

4.5 Condition 3.16: Waste Acceptance/Removal Hours and Hours of Operation

Condition 3.16.4 states that the materials recycling facility may be operated only between the hours of 0900 to 1900 Monday to Friday inclusive and 0900 to 1400 on Saturdays. This could be understood to mean that no activities could be conducted on the site outside these waste acceptance hours. It is our intention to continue with activities on site, such as sorting, bailing or administrative activities, outside waste acceptance hours.

The limitations on the acceptance and removal of waste, contained in condition 3.16.1, 3.16.2 and 3.16.3, will be sufficient.

For this reason Indaver requests that condition 3.16.4 be deleted.

4.6 Condition 3.18: Materials Recycling Facility – Operational Controls

Condition 3.18.3 specifies that leachate from the materials recycling facility shall drain to a storage tank for use as process water in the incineration plant. It is expected that there will be very little leachate. However the leachate may not always be suitable for use as process water in the incineration plant.

Indaver requests that the condition be reworded as follows.

3.18.3 Leachate from the materials recycling facility shall drain to a storage tank for use as process water in the incineration plant, *or be put in the bunker, or disposed of off-site to a licensed facility, as appropriate.*

4.7 Condition 3.19: Incineration Plant

Condition 3.19.1(i) specifies that the stack elevation of the incineration plant shall, at a minimum, be 95.3m OD.

Indaver Ireland has noted the requirement of the draft licence to increase the stack height from 40 metres to 65 metres. We have no objection to this condition and we note that the planning authority has been consulted by you in respect of visual impact. We have also furnished photo montages to both the Local Authority and the EPA. We also note that measures have been adopted to assess the visual impact, including the floating of a balloon to 65 metres. We also understand that the Local Authority and UNESCO agree that there will be no adverse visual impact.

5 Condition 5. Emissions

Condition 5.6 specifies that all vehicles delivering waste to and removing waste from the facility be appropriately covered.

Indaver will ensure that all vehicles, from which waste is accepted at the facility, and all vehicles removing waste from the facility be appropriately covered. However if an uncovered vehicle arrives at the facility, Indaver believes that, to minimise litter nuisance, it is better that the vehicle be accepted at the facility rather than be turned away to pose a litter risk as it departs. Indaver can put in place procedures and an auditing system to ensure that vehicles delivering waste regularly are appropriately covered. In addition, Local Authority Waste Collection Permits will require waste collectors cover trucks appropriately.

Indaver suggests that the condition be reworded as follows.

5.6 The licensee shall ensure that all vehicles removing waste *and materials from the facility are appropriately covered and implement procedures and an auditing system to ensure that vehicles delivering waste regularly to the facility are appropriately covered.*

6 Condition 7. Resource Use and Energy Efficiency

6.1 Condition 7.1: Energy Audit

Condition 7.1 requires an energy audit to be undertaken within one year of the grant of the licence. Given the prolonged planning, licensing, judicial review and construction process of the development, which is not yet complete, we request that the condition be worded as follows:

- 7.1 The licensee shall carry out an audit of the energy efficiency of the site *within one year of the commencement of licensed activities*. 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. The energy efficiency audit report shall include:

7 Condition 8. Materials Handling

Condition 8.2.3(b) Waste Profiling

Condition 8.2.3 specifies waste profiling procedures. Condition 8.2.3(b) refers to waste characterisation and states that regard shall be had to EU decision (2003/33/EC) on establishing the criteria and procedures for the acceptance of waste at landfills. These criteria are not directly relevant to the activities to be carried out in the Carranstown facility as they apply to acceptance criteria for landfills.

Indaver requests that the condition be clarified, with the reference to the EU decision (2003/33/EC) omitted.

8 Condition 10. Remediation, Decommissioning, Restoration and Aftercare

Condition 10.1: Decommissioning and Aftercare Plan

Condition 10.1 requires the licensee to submit a Decommissioning and Aftercare plan within 12 months of the date of grant of the licence. Given the prolonged planning, licensing, judicial review and construction process of the development, which is not yet complete, we request that the condition be worded as follows:

- 10.1 The licensee shall within twelve months of the *commencement of licensed activities* submit to the Agency for its agreement a Decommissioning and Aftercare plan for the facility. This plan shall be updated when required by the Agency.

9 Condition 11. Notifications, Records and Reports

Condition 11.5.1: Data Management System

Condition 11.5.1 requires the establishment of a data management system within six months of the date of grant of the licence. Given the prolonged planning, licensing, judicial review and construction process of the development, which is not yet complete, we request that the condition be worded as follows:

- 11.5.1 The licensee shall, within six months of *the commencement of licensed activities*, develop and establish a Data Management System for collation, archiving, assessing and geographically presenting the environmental monitoring data generated as a result of this licence.

10 Condition 12. Financial Charges and Provisions

Condition 12.1 charges

Condition 12.1 sets out charges to be paid to the agency to finance monitoring and measures to protect the environment. The charges come into effect from the date of grant of the licence. Given the prolonged planning, licensing, judicial review and construction process of the development, which is not yet complete, we request that the condition be worded as follows:

12.1.1 The licensee shall pay to the Agency an annual contribution of €63,513, or such sum as the Agency from time to time determines, having regard to variations in the extent of reporting, auditing, inspection, sampling and analysis or other functions carried out by the Agency, towards the cost of monitoring the activity as the Agency considers necessary for the performance of its functions under the Waste Management Acts 1996 to 2003. The first payment shall be a pro-rata amount for the period from *the commencement of the licensed activities*, to the 31st day of December of *that year*, and shall be paid to the Agency within one month of the date upon which demanded by the Agency. In subsequent years the licensee shall pay to the Agency such revised annual contribution as the Agency shall from time to time consider necessary to enable performance by the Agency of its relevant functions under the Waste Management Acts 1996 to 2003, and all such payments shall be made within one month of the date upon which demanded by the Agency.

11 Schedule A Limitations

11.1 Schedule A.1

Schedule A.1 specifies the types of waste to be accepted at the materials recycling centre.

Indaver requests that 'other wastes, to be agreed by the Agency, (quantity and handling details to be agreed by the Agency prior to waste acceptance)' be added to schedule A.1.

11.2 Schedule A.2

Schedule A.2 specifies the types of waste to be accepted at the incineration plant.

Indaver requests that 'other wastes, to be agreed by the Agency, (quantity and handling details to be agreed by the Agency prior to waste acceptance)' be added to schedule A.2.

12 Schedule B Emission Limits

Schedule B.1 and B.2 sets out the maximum emission rate per hour for the listed parameters for the moving grate line respectively.

Indaver requests that this table be presented in a similar format to that contained in the Directive 2000/76/EC, otherwise it could be interpreted to mean something other than was intended in the Directive. Specifically, Indaver requests that, in relation to carbon monoxide, Schedule B.1 be clarified to replicate the wording in the Directive 2000/76/EC, as follows:

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B.1 Emission limits to Air.

Emission Point Reference No.: A1-1 (Stack Emission)

Location: Flue gas treatment building

Volume to be emitted: Maximum rate per hour: 151,000 m³

Minimum Discharge height: 65 m above ground

Parameters	Units	Half Hour Average		Daily Average	Periodic
		A	B		
Total dust	mg/m ³	30 ^{Note 1}	10 ^{Note 1}	10	-
Gaseous and vaporous organic substances, expressed as total organic carbon	mg/m ³	20 ^{Note 1}	10 ^{Note 1}	10	-
Hydrogen chloride (HCl)	mg/m ³	60 ^{Note 1}	10 ^{Note 1}	10	-
Hydrogen fluoride (HF)	mg/m ³	4 ^{Note 1}	2 ^{Note 1}	1	-
Sulphur dioxide (SO ₂)	mg/m ³	200 ^{Note 1}	50 ^{Note 1}	50	-
Oxides of Nitrogen (NO and NO ₂ , expressed as NO ₂)	mg/m ³	400 ^{Note 1}	200 ^{Note 1}	200	-
The sum of Cadmium (as Cd) and thallium (as Tl), and their compounds Note 2	mg/m ³			-	0.05
Mercury (as Hg) and its compounds Note 2	mg/m ³			-	0.05
The sum of antimony (as Sb), arsenic (as As), lead (as Pb), chromium (as Cr), cobalt (as Co), copper (as Cu), manganese (as Mn), nickel (as Ni), and vanadium (as V) Note 2	mg/m ³			-	0.5
Arsenic and its compounds ^{Note 2}	mg/m ³	-		-	0.2
Dioxins/furans (TEQ) ^{Note 3}	ng/m ³	-		-	0.1
Carbon monoxide (CO) ^{Note 4}					

Note 1: None of the half-hourly average values shall exceed any of the emission limit values set out in column A, or, 97 % of the half-hourly average values over the year shall not exceed any of the emission limit values set out in column B;

Note 2: All average values over the period of a minimum of 30 minutes and a maximum of 8 hours. Metals include gaseous, vapour and solid phases as well as their compounds (expressed as the metal or total as specified).

Note 3: Average values shall be measured over a sample period of a minimum of 6 hours and a maximum of 8 hours. The emission limit value refers to the total concentration of dioxins and furans calculated using the concept of toxic equivalence in accordance with Annex I of Directive 2000/76/EC.

Note 4: The following emission limit values of carbon monoxide (CO) concentrations shall not be exceeded in the combustion gases (excluding the start-up and shut-down phase)

- 50 mg/m³ of combustion gas determined as a daily average
- 150 mg/m³ of combustion gas of at least 95 % of all measurements determined as 10-minute average values or 100 mg/m³ of combustion gas of all measurements determined as half-hourly values taken in any 24-hour period.

13 Schedule C Monitoring and Control

Schedule C.1.1 sets out the monitoring required of process parameters. Column 3 in the schedule specifies monitoring equipment or methodology. To allow for future improvements in monitoring techniques and equipment, Indaver requests the agency to add a note to column 3 of the schedule, similar to note 1 in schedule C.1.2, as follows:

Note 4: Or other equipment or methods agreed in advance by the Agency.

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APPENDIX 1

Please contact Indaver Ireland at info@indaver.ie or on (01) 2804534 for a copy of the following:

- ✱ Bord Gais map indicating gas main
- ✱ Bord Gais map indicating wayleave
- ✱ Bord Gais Consent Form indicating appropriate permanent wayleave & working strip (including wayleave)

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