

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

TECHNICAL AMENDMENT D
TO
INDUSTRIAL EMISSIONS LICENCE

Licence Register Number:	P0207-04
Company Registration Number:	902934
Licensee:	Intel Ireland Limited
Location of Installation:	Collinstown Industrial Park, Leixlip, County Kildare.



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 licence Reg. No. P0207-04 granted on the 20/12/2013, (and amended on the 23/12/2013, the 21/07/2014, the 22/01/2015 and the 15/07/2015) 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 Act 1992 as amended.

A screening for Appropriate Assessment was undertaken to assess, in view of best scientific knowledge and the conservation objectives of the site, if the activity, individually or in combination with other plans or projects is likely to have a significant effect on a European Site(s). In this context, particular attention was paid to the European site at the Rye Water Valley.

The Agency considered, for the reasons set out below, that the activity is not directly connected with or necessary to the management of those sites as European Sites and that it can be excluded, on the basis of objective scientific information following screening under this Regulation, that the activity, individually or in combination with other plans or projects, will have a significant effect on a European site and accordingly determined that an Appropriate Assessment of the activity is not required.

This determination was made in light of the scale and nature of emissions to the environment as described above, and the capacity of Irish Water's municipal WWTP at Leixlip to treat the effluent discharges from the installation.

Technical Amendment

In pursuance of the powers conferred on it by Section 96(1)(c) of the Environmental Protection Agency Act 1992 as amended, the Agency amends the licence, granted to Intel Ireland Limited for an installation located at Collinstown Industrial Estate, Leixlip, County Kildare.

Henceforth, the licence shall be read in conjunction with a Section 82A(11) Amendment issued on 23/12/2013 and Amendment A issued on 21/07/2014, Amendment B issued on 22/01/2015, Amendment C issued on 15/07/2015 and the amendments set out below.

This technical amendment is limited to the following Schedule(s):

Amendments

New Schedules or Amended Schedules

Amend Schedule B of the existing licence as follows:

B.3 Emissions to Sewer

Emission Point Reference No:	SE1		
Name of Receiving Waters:	River Liffey		
Location:	298992E, 237128N		
Volume to be emitted:	Maximum in any one day:	23,000 m ³ ^{Note 1}	16,500 m ³
	Maximum rate per hour:	1,150 m ³ ^{Note 1}	720 m ³
	Maximum rate per second:	320 litres ^{Note 1}	200 litres

Parameter	Emission Limit Value	
Temperature	30 °C (max)	
pH	6 – 9.5	
	Daily mean concentration mg/l	Daily mean loading kg/day
COD Equivalence ^{Note 5}	Not applicable	13,200
Inorganic Suspended Solids	Not applicable	2,700
Total Suspended Solids	Not applicable	4,125
Total Dissolved Solids	Not applicable	60,570
Total Nitrogen	Not applicable	590 ^{Note 3} 990 ^{Note 4}
Total Phosphorus (as P)	Not applicable	140
Fluoride (as F)	Not applicable	160
Cyanide (as CN)	0.1	1.35
Arsenic	0.1	1.35
Copper	0.3	4.05
Chromium	0.1	1.35
Nickel	0.2	2.7
Tin	0.4	5.4
Lead	0.4	1.6
Total Heavy Metals ^{Note 2}	Not applicable	13.5

Note 1: These flow limits only apply after the relevant infrastructure (new pipelines from the installation to the Municipal WWTP and associated pump house) have been installed.

Note 2: The sum of arsenic, copper, chromium, nickel, tin and lead.

Note 3: This emission limit value applies from the date of grant of licence.

Note 4: This emission limit value applies from the date of receipt of notification from the WSA of the completion of commissioning of the proposed Leixlip MWWTP upgrade.

Note 5: COD shall be measured as total organic carbon (TOC) and converted to a 'COD Equivalence' by using a conversion factor. The conversion factor and its validation shall be agreed with Irish Water. The conversion factor and validation shall be submitted to the Agency before the 30/09/2015. Cross comparison of COD/TOC ratios with respiration tests shall be carried out at a frequency agreed between Irish Water and Intel Ireland to ensure the accuracy and consistency of the measurements of COD Equivalence.

Amend Schedule C of the existing licence as follows:

C.3.2. Monitoring of Emissions to Sewer

Emission Point Reference No.:

SE-1

Parameter	Monitoring Frequency	Analysis Method/Technique
Flow	Continuous	On-line flow meter with recorder
Temperature	Continuous	On-line temperature meter with recorder
pH	Continuous	pH electrode/meter and recorder
COD Equivalence	Weekly ^{Note 1}	Standard Method/Conversion factor ^{Note 6}
Inorganic Suspended Solids	Weekly ^{Note 1}	Standard Method
Total Suspended Solids	Weekly ^{Note 1}	Standard Method
Total Dissolved Solids	Weekly ^{Note 1}	Standard Method
Sulphates	Weekly ^{Note 1}	Standard Method
Nitrates (as N)	Weekly ^{Note 1}	Standard Method
Ammonia (as N)	Weekly ^{Note 1}	Standard Method
Total Nitrogen (as N)	Weekly ^{Note 1}	Standard Method
Total Phosphorus (as P)	Weekly ^{Note 1}	Standard Method
Fluoride	Weekly ^{Note 1}	Standard Method
Cyanide	Weekly ^{Note 1}	Atomic Absorption/ICP
Arsenic	Weekly ^{Note 1}	Atomic Absorption/ICP
Copper	Weekly ^{Note 1}	Atomic Absorption/ICP
Chromium	Weekly ^{Note 1}	Atomic Absorption/ICP
Nickel	Weekly ^{Note 1}	Atomic Absorption/ICP
Tin	Weekly ^{Note 1}	Atomic Absorption/ICP
Lead	Weekly ^{Note 1}	Atomic Absorption/ICP
Cobalt	Monthly ^{Note 1}	Atomic Absorption/ICP
Total Heavy Metals ^{Note 2}	Weekly ^{Note 1}	To be agreed by the Agency
Toxicity ^{Note 3, Note 4}	Annually	GC-FID or GC-MS
Organic Compounds ^{Note 5}	Within 12 months of the date of grant of licence and thereafter as agreed by the Agency	

Note 1: All samples shall be collected on a 24 hour flow proportional composite sampling basis.

Note 2: The sum of arsenic, chromium, copper, nickel, lead and tin.

Note 3: The number of toxic units (Tu) = 100/x hour EC/LC₅₀ in percentage vol/vol so that higher Tu values reflect greater levels of toxicity. For test regimes where species death is not easily detected, immobilisation is considered equivalent to death.

Note 4: With the agreement of the Water Services Authority toxicity testing may be replaced by a Respirometry Assessment. The scope of the assessment shall be agreed by the Agency and the Water Services Authority.

Note 5: Screening for priority pollutant list substances, (such as US EPA volatile and/or semi-volatile compounds). This analysis shall include those organic solvents in use in the process, which are likely through normal process operations to be diverted to the waste water streams.

Note 6: The conversion factor and its validation shall be agreed with Irish Water. The conversion factor and validation shall be submitted to the Agency before the 30/09/2015.

This technical amendment shall be cited as Amendment D to the licence.

Sealed by the Seal of the Agency on this the 28th day of October, 2015

PRESENT when the seal of the Agency was affixed hereto

Marie O'Connor

Marie O'Connor,

Authorised Person

