



Date: May 6th, 2010.

Dear Sir/Madam,

I am writing to you in relation to an application for a "Review" of an IPPC Licence. The licence registration number is P0606-02 and is associated with Great Island Power Generating Station, Campile, New Ross, Co Wexford. Please find enclosed the application form and all relevant support documentation.

I can declare that the contents of the electronic files on the accompanying CD-ROM is a true copy of the original application form.

The payment for this licence review has been transferred electronically to the following account details upon direction from the EPA (Receipt of the transaction is attached):

AIB Bank
North Main Street
Wexford

Sort Code: 93 33 41
Account No.: 23507098
Account Name: Environmental Protection Agency
IBAN: IE23 AIBK 9333 4123 5070 98
Swift Code: AIBKIE2D

Also please find attached a brief background and summary document outlining the approach being taken for this licence review.

Thanks for your time and if you have any questions or would like any additional information please do not hesitate to contact me.

Best Regards,

A handwritten signature in blue ink, appearing to read 'Peter Gavican', with a horizontal line underneath.

Peter Gavican,
3 Grand Canal Plaza,
5th Floor,
Grand Canal Street Upper,
Dublin 4,
Ireland.
Direct: +353 (0) 1 5228360

Endesa Ireland Ltd, 3 Grand Canal Plaza, Grand Canal Street Upper, Dublin 4, Ireland
Tel: 01-5228300 Fax: 01-5228301 Email: info@endesaireland.ie

1. Introduction and Background

1.1 Scope of this IPPC Licence Review

This application form is associated with the **Review** of the Integrated Pollution Prevention and Control Licence, Register Number **P0606-02**, having regard to the proposed development of a new electricity generation station by Endesa Ireland on the site of the existing Great Island Generating Station, Campile, New Ross, County Wexford.

Endesa Ireland Ltd. is developing a project addressing the technical design and future construction and operation of a new Combined Cycle Gas Turbine power plant (herein referred to as CCGT) with an envisaged commercial operation date by quarter 1 2013, replacing the existing heavy fuel oil (HFO) power plant.

The Environmental Impact Statement accompanying the planning application for the proposed development was submitted to An Bord Pleanála on December 3rd, 2009. (PA0016) Endesa Ireland Ltd is expecting a decision on the planning application in June 2010.

Endesa Ireland Ltd is submitting a formal application to the Environmental Protection Agency to consider a Review of the current IPPCL to accommodate the proposed new CCGT power plant. The proposed location of the new CCGT power plant is within the boundaries of the current licence as referenced above. Endesa Ireland is seeking permission for the operation of the new CCGT while ensuring operation and availability of the existing/current facility remains unchanged during the construction period. It is considered important by Endesa Ireland Ltd that any of the conditions which are in force for the HFO plant should remain unchanged during the mentioned construction period.

No simultaneous operation of the existing plant and the new CCGT is foreseen (the existing facility will not operate simultaneously with the new plant as it will not be possible to export power from both facilities to the national grid), so in the period of time lasting from the date in which the Final Decision of the revised IPPC licence is issued by the EPA until the date in which the existing HFO fired electricity generation station is completely decommissioned the conditions included in the new license will have to cover the following two scopes:

- Operation of the existing HFO power plant, with the same limits and conditions that are set now in the current IPPCL so as not to affect current plant availability. The existing emission points are listed in section 1.5 of this Introduction and Background.
- The future CCGT, with the additional conditions and limits set for the operating scenario of the new power plant.

Note: the current facility (HFO plant) will be decommissioned once the new plant is in commercial operation (COD) and therefore the current Residuals Management Plan for the HFO plant will be exercised at this time (circa Quarter 1, 2013).

All Sections attached to this Application Form explain details about the proposed development and highlights, where necessary, the scenario of ensuring the current plant remains available while accommodating the addition of the conditions associated with the new CCGT in IPPCL P0606-02.

In the future, when the HFO plant is completely decommissioned and remedial works finished, Endesa Ireland Ltd. will consult with the EPA in removing from the IPPCL all references to applicable conditions for the existing HFO plant therefore resulting in a licence reflecting the CCGT plant only.

1.2 Brief summary of the site history and basic description

A brief summary of the history of the site is provided below.

Great Island Generating Station is located in south-west Co. Wexford near Campile at the confluence of the River Suir with the River Barrow estuary.

The station has a generating capacity of 240 MW, comprising of three generating units and it was developed in two stages as follows:

- The initial development consisted of two 60 MW units that were commissioned in 1967 and 1968. Each unit comprises a VKW boiler and a Parsons turbo-alternator.
- The follow-on development consisted of a single 120 MW unit that was commissioned in 1972. It comprises a Five-Penhoet boiler and Parsons turbo-alternator.

Each unit is independent and consists of a boiler, steam turbine and auxiliary plant. The station is fired on heavy fuel oil shipped directly to site and stored in the station's own oil storage farm area.

The total area of the site is approximately 143 acres.

1.3 Brief summary of the enforcement history of the site

The original IPPCL application was submitted by the previous site owner, ESB, on the 02/03/2001.

The application submitted referred to the HFO power plant, classified as:

- Principal Class of Activity: 2.1.0: Energy
- Description of Principal Class of Activity:
The production of energy in combustion plant the rated thermal input of which is equal to or greater than 50MW other than any such plant which makes direct use of the products of combustion in a manufacturing process.

The Proposed Determination was issued the 29/08/2002 and the Final Decision and the official first version of the formal IPPCL was issued on the 22/01/2003.

The License Register Number originally assigned was "715". In 2006 the Register Number was replaced by "P0606-01" and subsequently the Register Number was updated to "P0606-02".

- **Technical Amendment A, July 2006**

This technical amendment was limited to Schedule 1(i) "Emissions to Atmosphere", with detail of the limits applicable to Emission Point Reference No.: A1-3 (Stack for Boiler 3), applying the relevant limits to NO_x, SO₂ and Particulates.

- **Technical Amendment B, May 2008**

This technical amendment reviewed the limits and conditions for the bubble emissions (emissions to air: NO_x, SO₂ and Particulates), implementing the National Emissions Reduction Plan (NERP) annual emission restrictions for each stack.

- **Technical Amendment C, December 2008**

This technical amendment reviewed several Conditions including:

- 1.4 (site map revision, excluding 110kV and 220 kV transmission compounds from site ownership – these assets were transferred to the transmission system operator, now Eirgrid),
- 15.2.2, 15.2.3, 15.2.4 and 15.2.5 (RMP, FLRA and Financial Provisions) and
- Schedule 4(ii)- Groundwater monitoring for four Boreholes.

- **Licensee Company transfer, January 2009**

On the January 7th, 2009, the "Notification of the transfer of the IPPCL in respect of a facility at Great Island Generating Station, Campile, New Ross, County Wexford" was issued by the EPA under ESB's formal request. This included the "interim" transfer of the IPPCL to a company called XJWB Ltd while Endesa Ireland Ltd formal registration was being developed by the Companies Registration Office (CRO).

Special Resolution covering the Change of Company Name (Form G1Q) was passed on the 8th of January, then entering into force the current company Name. On the same date, the signature of the purchase agreement took place and Great Island Generating Station became 100% property of Endesa Ireland Ltd.

The EPA was then informed and IPPCL "P0606-02" was formally registered to Endesa Ireland Ltd.

1.4 Carbon Capture and Storage (CCS)

At this stage CCS technology is at very early stages and in particular in relation to a large CCGT project. Most trial technologies are currently associated with Coal plants as CCGT plants are considered as "cleaner" technology therefore CCS technology development for CCGT is not as urgent. There is however a technology being developed involving a process surrounding "Chilled Ammonia" and this is being developed on a small gas plant in Sweden and Norway.

In Great Island enough land is being made (approx 19,400m²) available to incorporate similar technology for capturing and storing carbon dioxide, although it must be stated that the technology is still very much in its infancy.

1.5 Existing HFO Plant Emission Points and New CCGT Emission Points

All current plant conditions and licence emission points will remain unchanged as per existing licence P0606-02 (contained in Attachment B of this Licence Review Application. Their location and discharge composition will not be altered at all by this application.

The proposed new CCGT plant referenced in this application will involve the construction and operation of new emission points for the various emissions and discharges (atmosphere, surface water, etc.).

EMISSION POINTS INCLUDED IN THE EXISTING IPPCL:

1.5.1 Emissions to the Atmosphere

Schedules 1(i) and 1(ii) of Great Island IPPC licence requires the monitoring of emissions to atmosphere at Emission Point Reference Nos. A1-1, A1-2, A1-3 and, having regard to Licence Conditions 3 and 5.

1.5.2 Emissions to Water

Schedule 2 (i) of Great Islands IPPC Licence sets out the requirement to monitor Emissions to Water having regard to Licence Conditions 3 and 6.

Great Island Generating Station has thirteen licensed emission points discharging to the Barrow Estuary:

- SW1 Surface Water - Tank farm.
- SW2 Process Emission - Condenser cooling water.
- SW3 Surface Water - Sewage Treatment.
- SW4 Surface Water - Station drainage South.
- PE5 Process Emission - Boiler blowdown B Station.
- PE6 Process Emission - Boiler blowdown A Station.
- PE7 Process Emission - Engine Rooms Drains.
- PE8 Process Emission - Screen wash water.
- SW10 Surface Water –Station Drainage West.

- SW11 Surface Water -Reservoir drainage.
- SW12 Surface Water – Station drainage South.
- PE13 Process Emission – Water Treatment Neutralisation Tank.

All the new emission points to accommodate the proposed CCGT development will be discussed in detail throughout this licence application.

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Bankline

Same Day payment - reference 584317

Payment details are as follows.

Payment information

Status: Accepted as at 07/05/2010 at 11:16	Last updated by: SYSTEM	Last updated: 07/05/2010 at 11:16
Bank reference: UBREBPO00118651	Authoriser User ID: 05415751X	Authorised: 07/05/2010 at 11:15
Template reference: EPA	Import file reference:	Imported:

Payment details

Debit account: 98-50-10 11477148 ENDESA IRELAND LTD	Your reference: EPA
Payment date: 07/05/2010	
Payment amount: EUR 12,697.00	
Debit date: 07/05/2010	
Debit amount: EUR 12,697.00	
Payment method: Urgent domestic(SDVP)	

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Beneficiary details

Beneficiary name: ENVIRONMENTAL PROTECTION AGENCY
Beneficiary account: 93-33-41 23507098

Note: This information does not represent an advice of payment; it simply shows the current state of the payment instruction.



Bankline

Same Day payment - reference 584317 (continued)

Payment details are as follows.
Beneficiary details (continued)

Beneficiary address:	Johnstown Caste Estate	Credit value date:	07/05/2010
	Wexford	Credit amount:	EUR 12,697.00
Template reference:		SWIFT BIC:	
Information for beneficiary:	ENDESA IRELAND	Account holding branch:	AIB BANK NORTH MAIN STREET WEXFORD
	REVIEW OF THE IPPC LICENCE P0606-02		
	ISLAND POWER STATION, CAMPILE,		
	NEW ROSS, CO WEXFORD		

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Note: This information does not represent an advice of payment; it simply shows the current state of the payment instruction.