



**Power Generation**

Electricity Supply Board

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ENVIRONMENTAL PROTECTION  
AGENCY

28 APR 2008

EPA  
Office of Licensing and Guidance  
PO BOX 3000  
Johnstown Castle Estate  
Co. Wexford

**Re: NERP Technical Amendment to IPPC Licence Reg. No. 607-02**

Dear Sir

As allowed for under clause 96 of the Protection of the Environment Act 2003 ESB is applying to the Agency for a Technical Amendment of the above licence for Tarbert generating station to incorporate the necessary changes for the operation of the Irish National Emissions Reduction Plan (NERP) as provided for in the Large Combustion Plant Directive (2001/80/EC).

Proposed amendments to the licence conditions are outlined in the attached document.

Yours faithfully

  
(Gerry Lander)

P.P.-

Manager Tarbert  
22/04/2008

**Tarbert Power Station**  
**IPPCL Technical Amendment Application (Reg. ref. 607-02)**

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## ESB Tarbert Generating Station

### Submission for Technical Amendment to IPPCL Reg. No. 607-02

#### Introduction

Modifications are proposed to Conditions 3, 4, 5 and 11 and to Schedules 1 and 5 of IPPCL 607-02 to better reflect the manner in which operation at Tarbert will comply with the requirements of the Irish National Emission Reduction Plan (NERP). These changes principally reflect the fact that electrostatic precipitators (ESPs) for dust control are not installed at Tarbert.

#### Proposed Amendments

##### **Condition 3: Interpretation**

Remove clause 3.2 as now unnecessary.

##### **Condition 4: Notification**

Remove text relating to Schedule 1(ii) Emissions to Atmosphere: Abatement / Treatment Control from Clause 4.1.3 as no ESPs are installed at Tarbert.

##### **Condition 5: Emissions to Atmosphere**

Remove existing Clause 5.2 and replace with the following text:

*"The aggregated annual emissions ceiling for the parameters specified in Schedule 1(i) Emissions to atmosphere of this licence, shall not be exceeded."*

Remove Clauses 5.3, 5.4 and 5.5. These refer to the installation of ESPs and LNBs on Boilers 3 and 4 which are not necessary to meet the requirements of the NERP.

In condition 5.6 renumber the reference to "Monitoring of Emissions to Atmosphere" to Schedule 1(ii).

Add an additional clause to Condition 5 to reflect operation of the NERP:

*"The licensee shall include in the Environmental Management Plan (see section 2.3) the agreed forecasted emissions levels to be achieved and will explain the measures to be taken across all NERP plants to ensure NERP compliance. The Agency shall be notified of any variation to the plan as part of the AER. The plan shall be reviewed by the licensee where the forecasted emissions are not being achieved or as required by the Agency."*

##### **Condition 11: Monitoring**

In Clause 11.1 renumber reference to "Monitoring of Emissions to Atmosphere" to Schedule 1(ii) rather than Schedule 1(iii).

### **Schedule 1(i) Emissions to Atmosphere (Boilers 1 and 2):**

It is proposed that the following table which contains the defined ELVs and Annual Emission Ceilings for participation of Boilers 1 and 2 in the Irish NERP will replace the existing Schedule 1(i).

#### ***Schedule 1(i) Emissions to Atmosphere***

**Emission Point Reference No.'s:** A1-1 and A1-2 (Common stack for boilers 1 and 2)

**Location :** 107679E, 149489N

**Boiler Rating:** 175 MW thermal input (per boiler)

**Volume to be emitted:** Maximum rate per day (per boiler) 4,229,280 m<sup>3</sup>  
 : Maximum rate per hour (per boiler) : 176,220 m<sup>3</sup>

**Minimum discharge height:** 121 m above ground

Parameter	Emission Limit Value <sup>(Note 1)</sup>	Annual Emission Ceiling <sup>(Note 2)</sup>
	mg/m <sup>3</sup>	Tonnes
Oxides of sulphur (as SO <sub>2</sub> )	1700	793
Nitrogen oxides (as NO <sub>2</sub> )	850	210
Dust	150 <sup>Note 3</sup>	23

Note 1: ELVs are the same for Units 1 & 2.

Note 2: 690 mg/m<sup>3</sup> during soot blowing.

Note 3: Emission ceilings are the same for Units 1 & 2. Annual emissions ceilings from A1-1 & A1-2 shall be calculated in accordance with the NERP.

### **Schedule 1(i) Emissions to Atmosphere (Boilers 3 and 4):**

It is proposed that the following table which contains the defined ELVs and Annual Emission Ceilings for participation of Boilers 3 and 4 in the Irish NERP will replace the existing Schedule 1(i).

### ***Schedule 1(i) Emissions to Atmosphere***

**Emission Point Reference No.'s:** A1-3 and A1-4 (Common stack for boilers 3 and 4)

**Location :** 107616E, 149543N

**Boiler Rating:** 620 MW thermal input (per boiler)

**Volume to be emitted:** Maximum rate per day (per boiler) 15,315,360m<sup>3</sup>  
Maximum rate per hour (per boiler) : 638,140m<sup>3</sup>

**Minimum discharge height:** 152m above ground

Parameter	Emission Limit Value <small>Note 1</small>	Annual Emission Ceiling	
		Unit 3 Tonnes	Unit 4 Tonnes
Oxides of sulphur (as SO <sub>2</sub> )	1700 mg/m <sup>3</sup>	1302	1284
Nitrogen oxides (as NO <sub>2</sub> )	1100	1302	1284
Dust	200 <small>Note 2</small>	163	161

Note 1: ELVs are the same for both unit 3 & 4.

Note 2: 300 mg/m<sup>3</sup> during soot blowing.

Note 3: Annual emissions ceilings from A1-3 & A1-4 shall be calculated in accordance with the NERP.

### **Further Proposed Amendments:**

#### ***Schedule 1(ii): Emissions to Atmosphere: Abatement/Treatment Control***

Delete this schedule as it presently exists. It refers to ESPs which are not installed at Tarbert.

#### ***Schedule 1(iii): Monitoring of Emissions to Atmosphere***

Renumber this schedule to Schedule 1(ii) reflecting the removal of the original Schedule 1(ii).

#### ***Schedule 5(i): Recording and Reporting to the Agency***

In "Once-off Reports" remove the last two reports referenced referring to "Test Programme" and "Test Programme Report". Both refer to Clauses in Condition 5 which are proposed for removal as they refer to ESPs which are not installed at Tarbert.

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