

Comhairle Contae Chorcaí
Cork County Council

ENV. PROTECTION AGENCY
LICENCING UNIT
P.O. BOX 3000
JOHNSTOWN CASTLE ESTATE,
CO. WEXFORD

Planning Department,
County Hall,
Carrigrohane Road, Cork.
Tel (021) 4276891 • Fax (021) 4867007
Email: planninginfo@corkcoco.ie
Web: www.corkcoco.ie

An Rannóg Pleanála,
Halla an Chontae,
Bóthar Charraig Ruacháin, Corcaigh.
Fón: (021) 4276891 • Faics: (021) 4867007
R-phost: planninginfo@corkcoco.ie
Suíomh Gréasáin: www.corkcoco.ie



Environmental
Protection Agency

17 JUL 2007

10/07/2007

PLANNING REGISTRATION NO. :07/8356

APPLICANT : **Bord Gais Eireann**
Gasworks Rd **Cork**

DEVELOPMENT: Alt. to permitted 440 Meg. gas fired elect. generating station to include the modification and relocation of heat recovery steam generator and assoc.bld., steam turbine generator, air inlet filter, gas turbine, air cooled condenser, demineralised water st. tank, fire pump house, raw water st. tank, elect. bld., turbine hall, boiler feed pumps with de-aerator over, de-aerator lift pumps, generator transformer and unit auxiliary transformers, fuel oil forwarding skid, air cooled condenser control room and car parking area, relocation of main stack, caustic & acid st. tanks, process water discharge pit, fuel oil st. tank in bund, water treatment plant building, workshop/canteen/stores bld., gas compressor, gas fuel filter and meter, emerg. diesel generator, admin. building and sewage treatment plant, modifications to 220kV cable reservation & pipe bridge and construction of auxiliary boiler house and stack, demineralised water tank and gas compressor building

LOCATION: **Corkbeg Whitegate**

A Chara,

An application for **PERMISSION** was received for the above proposal on 01/06/2007.

I enclose for your information copy document(s).

Submissions made to this department within five weeks of the date of receipt of this application will be taken into consideration by the Planning Authority.

Mise, le meas,


OIFIGEACH FOIRNE
PLANNING DEPARTMENT



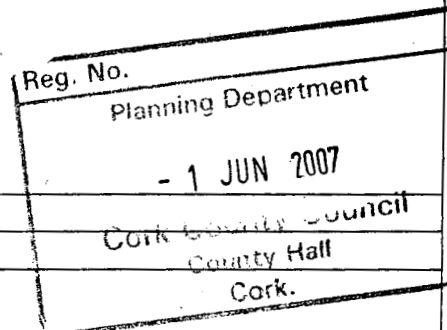
**CORK COUNTY COUNCIL
COMMERCIAL/INDUSTRIAL PLANNING APPLICATION FORM**

1. Applicant:

<i>Name(s)</i>	Bord Gáis Éireann
<i>Address(es)</i>	Bord Gáis Headquarters Gasworks Road, Cork
<i>Correspondence Address</i>	Bord Gáis Headquarters Gasworks Road, Cork
<i>Telephone No.</i>	021 4534000
<i>Mobile No. (if any)</i>	Not applicable
<i>Email Address (if any)</i>	Not applicable
<i>Fax No. (if any)</i>	021 4534001

2. Person/Agent acting on behalf of the Applicant (if any):

<i>Name</i>	Ria Lyden
<i>Address</i>	Arup Consulting Engineers 15 Oliver Plunkett St Cork
<i>Telephone No.</i>	021 4277670
<i>Mobile No. (if any)</i>	
<i>Email Address (if any)</i>	ria.lyden@arup.com
<i>Fax No. (if any)</i>	021 4272345



3. Type of planning permission (please tick appropriate box):

- ☒ Permission
☐ Permission for retention
☐ Permission Consequent on the Grant of Outline Permission.

4. Where planning permission is consequent on the grant of outline permission:

Outline Permission Register Reference Number: Not applicable

Date of Grant of Outline Permission: ____ / ____ / ____

5. Location of Proposed Development:

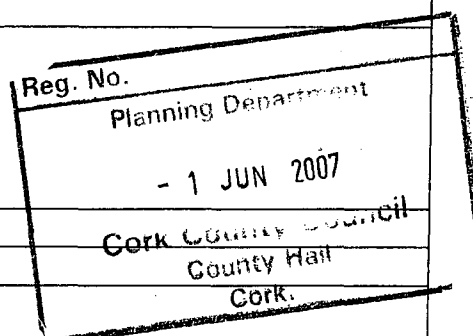
Postal Address or Townland or Location (as may best identify the land or structure in question)	Corkbeg and Glanagow, Whitegate, Co. Cork
Ordnance Survey Map Ref. No (and the Grid Reference where available)	6513-A 182735 062480

6. Where Applicant is a Company (registered under the Companies Acts 1963 to 1999):

Name(s) of company Director(s)	Mr. Ed O'Connell (Chairman), Mr Aidan Eames, Mr. Gene Fitzgerald, Ms. Rose Hynes, Mr. Proinsias J. Kitt, Ms. Elaine O'Donovan, Mr. Pearse O'Hanrahan, Ms. Frances Ruane, Mr. R. G. Walsh.
Registered Address (of company)	Bord Gáis Éireann is a statutory body, established under the Gas Act 1976 of Ireland as amended, and is not subject to company registration.
Company Registration No.	Not applicable
Telephone No.	Not applicable
Email Address (if any)	Not applicable
Fax No. (if any)	Not applicable

7. Person primarily responsible for preparation of Drawings and Plans:

Name	Arup Consulting Engineers
Address	Arup Consulting Engineers 15 Oliver Plunkett St Cork
Telephone No.	021 4277670
Mobile No. (if any)	
Email Address (if any)	ria.lyden@arup.com
Fax No. (if any)	021 4272345



8. Description of Proposed Development:

Brief description of nature and extent of development	Alterations to a permitted development of an electricity generating station at Corkbeg and Glanagow, Whitegate, County Cork, Planning Reference Number 06/10126, for which an EIS was submitted, including: the following permitted development which will be relocated and modified: heat recovery steam generator and associated building, steam turbine generator, air inlet filter, gas turbine, air cooled condenser, demineralised (demin) water storage tank, fire pump house, raw water storage tank ,
---	--

	electrical building, turbine hall, boiler feed pumps with de-aerator over, de-aerator lift pumps, generator transformer and unit auxiliary transformers, fuel oil forwarding skid (under canopy), air cooled condenser control room and car parking area; the following permitted development which will be relocated: main stack, caustic and acid storage tanks, process water discharge pit, fuel oil storage tank in bund, water treatment plant building, workshop / canteen / stores building, gas compressor, gas fuel filter and meter, emergency diesel generator, administration building and sewage treatment plant; the following permitted development which will be modified: 220kV cable reservation and pipe bridge to ConocoPhillips; and the following additional development: an auxiliary boiler house and stack, demineralised water tank and gas compressor building.
--	---

9. Legal Interest of Applicant in the Land or Structure:

Please tick appropriate box to show applicant's legal interest in the land or structure	A. Owner	B. Contracted to purchase
	C. leasee	D. Other <input checked="" type="checkbox"/>
Where legal interest is 'Other', please expand further on your interest in the land or structure	ConocoPhillips and Bord Gáis Éireann have executed heads of terms for the grant (subject to contractual terms being agreed) of a lease of land to develop a power plant facility. Bord Gáis Éireann has been granted approval from ConocoPhillips to apply for planning permission in accordance with the attached letter of consent.	
If you are not the legal owner, please state the name and address of the owner and supply a letter from the owner of consent to make the application as listed in the accompanying documentation	ConocoPhillips Whitegate Refinery Limited, Whitegate, Co. Cork.	

10. Site Area:

Area of site to which the application relates in hectares	10 ha
---	-------

11. Where the application relates to a building or buildings:

Gross floor space of any existing building(s) in m ²	(Permitted development) 10,288m ²
Gross floor space of proposed works in m ²	9034.4m ²
Gross floor space of work to be retained in m ² (if appropriate)	Not applicable

Gross floor space of any demolition in m ² (if appropriate)	Not applicable
--	----------------

12. In the case of mixed development (e.g. residential, commercial, industrial, etc), please provide breakdown of the different classes of development and breakdown of the gross floor area of each class of development:

Class of Development	Gross floor area in m ²
Not applicable	

13. (i) Description of buildings and materials used in them:- Nature Colour
- (a) Floors (a)concrete grey/varied
- (b) Walls and partitions (b)block, plasterboard - varied
- (c) Roof (c) waterproof membrane - grey
Tiles - black

(ii) Nature and colour of proposed external facing materials:-

- (a) Roofs (a) steel sheet & waterproof membrane – grey
roof tiles - black
- (b) Front Walls (b) light grey & green
- (c) Side Walls (c) light grey & green
- (d) Rear Walls (d) light grey & green
- (e) Road boundary walls (e) rendered blockwork and steel fence
- (f) Other boundary walls (f) 2.4m chain link fence
- (g) Buildings other than main buildings (g) light grey & green cladding and precast concrete panels

14. Where the application refers to a material change of use of any land or structure or the retention of such a material change of use:

Existing use (or previous use where permission to retain is sought)	Not applicable
Proposed use (or use it is proposed to retain)	
Nature and extent of any such proposed use (or use it is proposed to retain)	

Reg. No.
Planning Department
- 1 JUN 2007
Cork County Council
County Hall
Cork.

15. Development Details

Please tick appropriate box	Yes	No
-----------------------------	-----	----

Are you aware of previous uses of the site e.g. dumping or quarrying?

Yes ☒ No ☐

If yes, please give details.

The site is within boundary of the refinery. The site was used for tillage and small portion of site for storage of construction spoil. Access road crosses pit used for landfill of domestic type waste. This has been remediated under the conditions of the ConocoPhillips IPC licence, number 226-01

Are you aware of any valid planning applications previously made in respect of this land/structure?

Yes ☒ No ☐

If yes please state planning reference number(s) and the date(s) of receipt of the Planning application(s) by the planning authority if know:

Reference No.: 06/10126 Date: 28 August 2006

If a valid planning application has been made in respect of this land or structure in the 6 months prior to the submission of this application, then the site notice must be on a yellow background in accordance with Article 19(4) of the Planning and Development Regulations 2001 as amended.

Is the site of the proposal subject to a current appeal to An Bord Pleanála in Respect of a similar development?

Yes ☐ No ☒

An Bord Pleanála Reference No. _____

17. Pre-application Consultation

Has a pre-application consultation taken place in relation to the proposed Development?

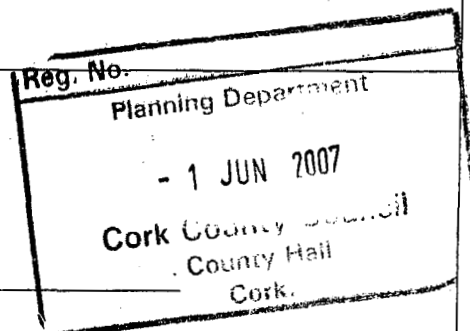
Yes ☒ No ☐

If yes, please give details:

Reference No. (if any): _____

Date(s) of consultation: 22 / 05 / 07

Persons involved: Mr John Ronayne, Cork County Council, Declan Lynch and David Kirwan, Bord Gáis Éireann, Ria Lyden Arup Consulting Engineers



18. Services

Proposed Source of Water Supply? Please tick as appropriate

Existing connection ☐

New connection ☒

Public Mains ☒

Group Water Scheme ☐

Private Well ☐

Other (please specify):

Name of Group Water Scheme (where applicable)

Proposed Wastewater Management/Treatment. See note at 22 below

Existing ☐

New ☒

Public Sewer ☐

Conventional septic tank system ☐

Other on-site treatment system ☒ Please specify: Packaged treatment plant to treat effluent on site permitted under planning permission reference 06/10126, and subject to IPPC licensing.

Proposed Surface Water Disposal. See note at 22 below

Public Sewer/Drain ☐

Soakpit ☐

Watercourse ☒ Other ☐ Please specify: _____

19. Intended use of buildings with details of process including raw materials and products.

The proposed alterations will not change the permitted use of the buildings, raw materials and products. The buildings will be used for the generation of electricity by combined cycle gas turbine and for the following ancillary functions: fire water pumping, switchyard control, electrical equipment, workshops, canteen, stores, boilers, air cooled condenser control, administration, GTG local control, AGI Control, Electrical Switchyard control. The proposed alteration will increase the efficiency of the plant from 55% to 56.9%.

Reg. No.

The raw material for the process will be natural gas (with diesel as backup fuel) and the product will be electricity.

20. Details of all emissions, e.g. smoke, odour, noise, dust, etc and proposals for control.

The proposed alterations to the permitted development will not increase the permitted emissions.

The plant will be mainly gas fired and as such oxides of nitrogen, carbon monoxide and carbon dioxide will be the principal emissions. When firing on back-up 0.2% sulphur diesel oil there will also be emissions of sulphur dioxide. The process will be subject to an Integrated Pollution Prevention and Control Licence, issued by the Environmental Protection Agency which will specify permissible emissions. Modern gas turbine technology will ensure all emissions are low. Dispersion modelling has confirmed that the impact of emissions on ambient air quality will be minimal.

21. Details of all liquids effluents and solid wastes and disposal methods including method of disposal and /or treatment of sewage.

The principal process-related discharges from the plant during operation will be:-

1. Water treatment plant discharge (process water)
2. Boiler blowdown
3. Floor Drains
4. Drains from equipment

These will be collected in the effluent pit on site and will be continuously monitored to ensure a pH of between 6 and 9. From there the effluent will be discharged into Cork Harbour by a new outfall.

Other intermittent discharges include

- a. Gas Turbine Washing
- b. Drain down of cooling water systems.
- c. Dirty oil and sludge

These will be collected and disposed of off site as waste by a licensed waste disposal contractor

All storm water from building roof and roads will be collected in an underground drainage system and will pass through a petrol interceptor and attenuation tank before discharging into the Glenagow stream which crosses the site.

All foul sewage from the site (from sinks and toilets) will be collected in an underground drainage system and will be treated on site by a package water treatment plant. From there the treated effluent will be discharged into Cork Harbour by a new outfall.

22. If connection to surface water and foul sewer is required then size and description and gradient of drains must be shown on plans.

Connection to public surface and foul sewers will not be required

Reg. No.

Planning Department

- 1 JUN 2007

Cork County Council
County Hall
Cork

23. (a) Estimated No. of Employees

(a) 36

(b) Estimate of traffic likely to be generated

(b) During construction it is estimated that an average of 14 heavy goods vehicles (HGV) trips per day will be made to site, and that the peak will be 28 HGV trips per day. It is estimated that the peak car trips will be 600 per day during construction and that 30 vehicle trips per day will be made during the subsequent operation of the power plant.

24. How supplied with water-process and cooling. Method of disposal of cooling water with temperature details etc. Daily water requirements.

The facility will be supplied with process water from the existing Cork County Council public water main which serves the adjacent oil refinery. Daily water requirement will be 10m³ per hour.

Cooling water will not be required for the electricity generation process which will be cooled by air.

25. Energy/Power supply. Give details

The facility will generate electricity which will be fed into the National Grid for sale to and use by private and public customers.

The electrical supply to operate the power station itself will be generated on site and will be back-fed from the generation plant through MV Switchboards to serve the power needs of the power station itself. In the event

that the power station shuts down, a backup diesel generator will be used to start up the gas turbine generator to restore electrical power.

26. Storage of materials/products. Give details of open and covered storage proposed

The following is a list of covered storage for the materials /products used in the plant.

1. Distillate fuel oil: 1,800 tonnes
2. Sulphuric or hydrochloric acid: 10 tonnes
3. Sodium hydroxide: 16 tonnes
4. Turbine lube oil: 20 tonnes
5. Inergen gas: 30 off 65kg capacity storage bottles
6. Trisodium Phosphate: 0.5 tonnes
7. Ammonia Hydroxide: 0.5 tonnes
8. Hydrazine: 0.2 tonnes.

The following is a list non covered storage for the materials/products used in the plant

1. Hydrogen: 45 No. x 65kg capacity storage bottles.

27. Details of Public Notice

Approved newspaper ¹⁵ in which Notice was published	The Irish Examiner
Date of publication	01 June 2007
Date on which site notice was Erected	01 June 2007

28. Application Fee

Fee Payable	€32,524.00
Basis of Calculation	9034.4m ² x €3.60/m ² : €32,524.00

Reg. No.

Planning Department

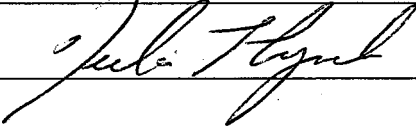
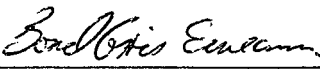
- 1 JUN 2007

Cork County Council

County Hall

Cork.

I hereby declare that, to the best of my knowledge and belief, the information given in this form is correct and accurate and fully compliant with the Planning and Development Act 2000, as amended, and the Regulations made thereunder:

Signed (Applicant or Agent As appropriate)	
	

Date	01 JUNE 2007
------	--------------

An applicant will not be entitled solely by reason of a planning permission to carry out the development. The applicant may need other consents, depending on the type of development. For example, all new buildings, extensions and alterations to, and certain changes of use of existing buildings must comply with building regulations, which set out basic design and construction requirements.

For inspection purposes only.
Consent of copyright owner required for any other use.

