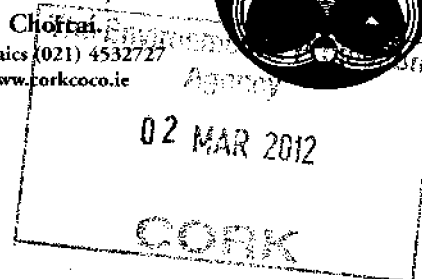
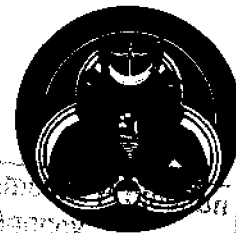


# Comhairle Contae Chorcaí Cork County Council

Ms Sonja Smith,  
Programme Officer,  
Office of Climate, Licensing & Resource Use,  
Environmental Protection Agency,  
Regional Inspectorate, Inniscarra,  
Co. Cork.

Environmental Department,  
Inniscarra, Co. Cork.  
Tel: (021) 4532700 • Fax (021) 4532727  
Web: www.corkcoco.ie  
An Rannóg Comhshaoil,  
Inis Cara, Co. Chorcaí.  
Fón: (021) 4532700 • Faics (021) 4532727  
Suíomh Gréasáin: www.corkcoco.ie



28<sup>th</sup> February, 2012.

Dear Ms Smith,

-----  
Re: NO2 monitoring at ESB Aghada Generating Station, Whitegate, Midleton, Co. Cork.  
-----

I refer to the above matter and enclosed letter dated 21.2.2012 received by Cork County Council from ESB Aghada Generation station which I understand is now regulated by the Environmental Protection Agency under the IPPC Licensing process. (Reg. No. P0561-05)

This letter details and outlines air monitoring that has been conducted by ESB Aghada Generating Station in accordance with Condition 7 of Planning Registration Number 1665/75 which was granted by Cork County Council on 3 December 1975.

You will note from the letter that the company has now requested permission from the Planning Authority to discontinue such monitoring.

I would appreciate any comments the Environmental Protection Agency would have in relation to this matter and also if they have any objection or otherwise to accedence to the request from the company to discontinue such monitoring.



I look forward to hearing from you at your convenience.

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

Thanking you,



Andrew Mc Donnell,

Executive Scientist,

Environ. & Emergency Services Directorate.

**Encls:** Letter dated 21.2.2012 and accompanying documentation.

**c.c.:** Mr Ted O'Leary, Senior Executive Officer, Environmental Directorate, Inniscarra, County  
Cork.

Ms Maire Ni Thuama, Planning Dept., Cork County Council, County Hall, Cork.

Fiona Spellissy  
Station Chemist/Environmental Coordinator  
ESB Aghada Generation Station,  
Whitegate,  
Co. Cork  
Tel: 021 4656627  
Mobile: 087 1234904  
Email: [fiona.spellissy@esb.ie](mailto:fiona.spellissy@esb.ie)

21.02.2012

Planning Department,  
East Cork Area,  
County Hall,  
Carrigrohane Road,  
Cork.  
Tel (021) 4276891  
Fax (021) 4867007  
Email: [planninginfo@corkcoco.ie](mailto:planninginfo@corkcoco.ie)

Attention: Planning department.

Dear Sirs,

Re: NO<sub>2</sub> monitoring at ESB Aghada Generation Station.

Please see enclosure 1: exert from planning permission – Planning register reference: 1665/75 – Condition 7.

Condition 7 states: four continuously recording monitors should be but in place with the intention of monitoring sulphur dioxide concentrations. It was initially determined that SO<sub>2</sub> should be monitored because ESB Aghada had the option of running on heavy full oil however the station has never run on heavy fuel oil and so in the late nineties it was decided that we would test for NO<sub>2</sub> instead of SO<sub>2</sub> because the station is running on natural gas.

Please see enclosure 2: Results of NO<sub>2</sub> analysis from 2005 to 2011. We have been monitoring NO<sub>2</sub> concentrations for several years as per our planning permission. However no one from the county council has requested to see the monitoring results. We wondered based on these results taken over a seven year period can we stop monitoring NO<sub>2</sub> at these locations?

We would appreciate if you could come back to us at your earliest convenience.

Sincerely  
Fiona Spellissy  
Station Chemist/Environmental Coordinator

Report reference: 17090			LOD = 0.010 $\mu$ gNO <sub>2</sub>
	Date on	Date Off	Total $\mu$ g NO <sub>2</sub>
Reservoir	28.10.2005	29.11.2005	0.49
Outfall	28.10.2005	29.11.2005	0.47
Aghada	28.10.2005	29.11.2005	0.29

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

Report reference: 15480			LOD = 0.010µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	01.06.2005	01.07.2005	0.34
Outfall	01.06.2005	01.07.2005	0.22
Aghada	01.06.2005	01.07.2005	0.14
Saleen	01.06.2005	01.07.2005	0.25
Loughfree	01.06.2005	01.07.2005	0.15

Report reference: 15481			LOD = 0.010µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	01.07.2005	03.08.2005	0.44
Outfall	01.07.2005	03.08.2005	0.34
Aghada	01.07.2005	03.08.2005	0.27
Saleen	01.07.2005	03.08.2005	0.26
Loughfree	01.07.2005	03.08.2005	0.08

Report reference: 16146			LOD = 0.010µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Outfall	03.08.2005	02.09.2005	0.30
Aghada	03.08.2005	02.09.2005	0.27
Saleen	03.08.2005	02.09.2005	0.32
Loughfree	03.08.2005	02.09.2005	0.21

Report reference: 16147			LOD = 0.010µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	02.09.2005	30.09.2005	0.39
Outfall	02.09.2005	30.09.2005	0.24
Aghada	02.09.2005	30.09.2005	0.19
Saleen	02.09.2005	30.09.2005	0.29
Loughfree	02.09.2005	30.09.2005	0.19

Report reference: 17064			LOD = 0.010µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	30.09.2005	28.10.2005	0.36
Outfall	30.09.2005	28.10.2005	0.37
Aghada	30.09.2005	28.10.2005	0.25
Saleen	30.09.2005	28.10.2005	0.38

Report reference: 21871			LOD = 0.010µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	01.12.2006	29.12.2006	0.57
Outfall	01.12.2006	29.12.2006	0.51
Aghada	01.12.2006	29.12.2006	0.29
Loughfree	01.12.2006	29.12.2006	0.15

Report reference: 21871			LOD = 0.010µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	29.12.2006	31.01.2007	0.56
Outfall	29.12.2006	31.01.2007	0.46
Aghada	29.12.2006	31.01.2007	0.28
Saleen	29.12.2006	31.01.2007	0.45
Loughfree	29.12.2006	31.01.2007	0.43

## 2005

Report reference: 14878			LOD = 0.010µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	31.03.2005	05.05.2005	0.45
Outfall	31.03.2005	05.05.2005	0.42
Aghada	31.03.2005	05.05.2005	0.30
Saleen	31.03.2005	05.05.2005	0.47
Loughfree	31.03.2005	05.05.2005	0.26

Report reference: 14877			LOD = 0.010µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	05.05.2005	01.06.2005	0.23
Outfall	05.05.2005	01.06.2005	0.22
Aghada	05.05.2005	01.06.2005	0.09
Saleen	05.05.2005	01.06.2005	0.17
Loughfree	05.05.2005	01.06.2005	0.07

Report reference: 19651			LOD = 0.010µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	07.07.2006	09.08.2006	0.32
Outfall	07.07.2006	09.08.2006	0.39
Aghada	07.07.2006	09.08.2006	0.23
Saleen	07.07.2006	09.08.2006	0.04
Loughfree	07.07.2006	09.08.2006	0.13

Report reference: 20449			LOD = 0.010µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	09.08.2006	02.09.2006	0.36
Outfall	09.08.2006	02.09.2006	0.29
Aghada	09.08.2006	02.09.2006	0.19
Saleen	09.08.2006	02.09.2006	0.05
Loughfree	09.08.2006	02.09.2006	0.12

Report reference: 20449			LOD = 0.010µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	02.09.2006	04.10.2006	0.37
Outfall	02.09.2006	04.10.2006	0.51
Aghada	02.09.2006	04.10.2006	0.22
Saleen	02.09.2006	04.10.2006	0.55
Loughfree	02.09.2006	04.10.2006	0.16

Report reference: 21111			LOD = 0.010µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	04.10.2006	03.11.2006	0.39
Outfall	04.10.2006	03.11.2006	0.43
Aghada	04.10.2006	03.11.2006	0.26
Saleen	04.10.2006	03.11.2006	0.57
Loughfree	04.10.2006	03.11.2006	0.18

Report reference: 21111			LOD = 0.010µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	03.11.2006	01.12.2006	0.50
Outfall	03.11.2006	01.12.2006	0.48
Aghada	03.11.2006	01.12.2006	0.25
Saleen	03.11.2006	01.12.2006	0.56
Loughfree	03.11.2006	01.12.2006	0.12

## 2006

Report reference: 17809		LOD = 0.010µgNO <sub>2</sub>	
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	01.02.2006	07.03.2006	0.53
Outfall	01.02.2006	07.03.2006	0.52
Aghada	01.02.2006	07.03.2006	0.37
Loughfree	01.02.2006	07.03.2006	0.19

Report reference: 18854		LOD = 0.010µgNO <sub>2</sub>	
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	07.03.2006	05.04.2006	0.47
Outfall	07.03.2006	05.04.2006	0.49
Aghada	07.03.2006	05.04.2006	0.27
Saleen	07.03.2006	05.04.2006	0.46
Loughfree	07.03.2006	05.04.2006	0.21

Report reference: 18854A		LOD = 0.010µgNO <sub>2</sub>	
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	16.04.2006	07.05.2006	0.30
Outfall	16.04.2006	07.05.2006	0.39
Aghada	16.04.2006	07.05.2006	0.23
Saleen	16.04.2006	07.05.2006	0.38
Loughfree	16.04.2006	07.05.2006	0.18

Report reference: 18854B		LOD = 0.010µgNO <sub>2</sub>	
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	07.05.2006	03.06.2006	0.37
Outfall	07.05.2006	03.06.2006	0.42
Aghada	07.05.2006	03.06.2006	0.24
Saleen	07.05.2006	03.06.2006	0.43
Loughfree	07.05.2006	03.06.2006	0.19



Report reference: 25413			LOD = 0.003µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	07.09.2007	04.10.2007	0.55
Outfall	07.09.2007	04.10.2007	0.54
Aghada	07.09.2007	04.10.2007	0.22
Saleen	07.09.2007	04.10.2007	0.45
Loughfree	07.09.2007	04.10.2007	0.16

Report reference: 25416			LOD = 0.003µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	04.10.2007	04.11.2007	0.60
Aghada	04.10.2007	04.11.2007	0.28
Salcen	04.10.2007	04.11.2007	0.62
Loughfree	04.10.2007	04.11.2007	0.16

Report reference: 26231			LOD = 0.003µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	04.11.2007	07.12.2007	0.79
Outfall	04.11.2007	07.12.2007	0.61
Aghada	04.11.2007	07.12.2007	0.47
Loughfree	04.11.2007	07.12.2007	0.23

Report reference: 26232			LOD = 0.003µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	07.12.2007	02.01.2008	0.48
Outfall	07.12.2007	02.01.2008	0.70
Aghada	07.12.2007	02.01.2008	0.37
Saleen	07.12.2007	02.01.2008	0.44
Loughfree	07.12.2007	02.01.2008	0.29

Report reference: 23751			LOD = 0.003µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	30.03.2007	30.04.2007	0.44
Outfall	30.03.2007	30.04.2007	0.51
Aghada	30.03.2007	30.04.2007	0.27
Saleen	30.03.2007	30.04.2007	0.58
Loughfree	30.03.2007	30.04.2007	0.30

Report reference: 23751			LOD = 0.003µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	30.04.2007	29.05.2007	0.37
Outfall	30.04.2007	29.05.2007	0.25
Aghada	30.04.2007	29.05.2007	0.20
Saleen	30.04.2007	29.05.2007	0.36
Loughfree	30.04.2007	29.05.2007	0.21

Report reference: 23751			LOD = 0.003µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	29.05.2007	06.07.2007	0.41
Outfall	29.05.2007	06.07.2007	0.31
Aghada	29.05.2007	06.07.2007	0.21
Loughfree	29.05.2007	06.07.2007	0.13

Report reference: 24634			LOD = 0.003µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	06.07.2007	08.08.2007	0.47
Outfall	06.07.2007	08.08.2007	0.31
Aghada	06.07.2007	08.08.2007	0.19
Saleen	06.07.2007	08.08.2007	0.27
Loughfree	06.07.2007	08.08.2007	0.27

Report reference: 24634			LOD = 0.003µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Outfall	08.08.2007	07.09.2007	0.34
Aghada	08.08.2007	07.09.2007	0.26
Saleen	08.08.2007	07.09.2007	0.33
Loughfree	08.08.2007	07.09.2007	0.15

Report reference: 30375A		LOD = 0.010µgNO <sub>2</sub>	
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	31.07.2008	05.09.2008	0.34
Outfall	31.07.2008	05.09.2008	0.56
Aghada	31.07.2008	05.09.2008	0.24
Saleen	31.07.2008	05.09.2008	0.38
Loughfree	31.07.2008	05.09.2008	0.13

Report reference: 31466		LOD = 0.010µgNO <sub>2</sub>	
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	05.09.2008	03.10.2008	0.47
Outfall	05.09.2008	03.10.2008	0.41
Aghada	05.09.2008	03.10.2008	0.24
Saleen	05.09.2008	03.10.2008	0.33
Loughfree	05.09.2008	03.10.2008	0.14

Report reference: 31466A		LOD = 0.010µgNO <sub>2</sub>	
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	03.10.2008	06.11.2008	0.80
Outfall	03.10.2008	06.11.2008	0.49
Aghada	03.10.2008	06.11.2008	0.29
Saleen	03.10.2008	06.11.2008	0.49
Loughfree	03.10.2008	06.11.2008	0.19

## 2007

Report reference: 22409		LOD = 0.010µgNO <sub>2</sub>	
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	31.01.2007	02.03.2007	0.48
Outfall	31.01.2007	02.03.2007	0.50
Saleen	31.01.2007	02.03.2007	0.68
Loughfree	31.01.2007	02.03.2007	0.23

Report reference: 22409A		LOD = 0.010µgNO <sub>2</sub>	
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	02.03.2007	30.03.2007	0.40
Outfall	02.03.2007	30.03.2007	0.41
Aghada	02.03.2007	30.03.2007	0.25
Saleen	02.03.2007	30.03.2007	0.44

Report reference: 28545			LOD = 0.004 $\mu$ gNO <sub>2</sub>
	Date on	Date Off	Total $\mu$ g NO <sub>2</sub>
Reservoir	07.03.2008	04.04.2008	0.44
Outfall	07.03.2008	04.04.2008	0.36
Aghada	07.03.2008	04.04.2008	0.22
Saleen	07.03.2008	04.04.2008	0.26
Loughfree	07.03.2008	04.04.2008	0.14

Report reference: 28545A			LOD = 0.004 $\mu$ gNO <sub>2</sub>
	Date on	Date Off	Total $\mu$ g NO <sub>2</sub>
Reservoir	04.04.2008	02.05.2008	0.51
Outfall	04.04.2008	02.05.2008	0.45
Aghada	04.04.2008	02.05.2008	0.18
Loughfree	04.04.2008	02.05.2008	0.23

Report reference: 29415			LOD = 0.009 $\mu$ gNO <sub>2</sub>
	Date on	Date Off	Total $\mu$ g NO <sub>2</sub>
Reservoir	02.05.2008	30.05.2008	0.28
Outfall	02.05.2008	30.05.2008	0.77
Aghada	02.05.2008	30.05.2008	0.19
Saleen	02.05.2008	30.05.2008	0.27
Loughfree	02.05.2008	30.05.2008	0.17

Report reference: 29415A			LOD = 0.010 $\mu$ gNO <sub>2</sub>
	Date on	Date Off	Total $\mu$ g NO <sub>2</sub>
Reservoir	30.05.2008	04.07.2008	0.61
Outfall	30.05.2008	04.07.2008	0.32
Aghada	30.05.2008	04.07.2008	0.21
Loughfree	30.05.2008	04.07.2008	0.09

Report reference: 30375			LOD = 0.010 $\mu$ gNO <sub>2</sub>
	Date on	Date Off	Total $\mu$ g NO <sub>2</sub>
Reservoir	04.07.2008	31.07.2008	0.44
Outfall	04.07.2008	31.07.2008	0.33
Aghada	04.07.2008	31.07.2008	0.17
Saleen	04.07.2008	31.07.2008	0.11
Loughfree	04.07.2008	31.07.2008	0.23

Report reference: 37658			LOD = 0.011µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	23.10.2009	27.11.2009	0.58
Outfall	23.10.2009	27.11.2009	0.49
Aghada	23.10.2009	27.11.2009	0.22
Saleen	23.10.2009	27.11.2009	0.37
Loughfree	23.10.2009	27.11.2009	0.10

Report reference: 37658A			LOD = 0.011µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	27.11.2009	04.01.2010	0.82
Outfall	27.11.2009	04.01.2010	0.91
Aghada	27.11.2009	04.01.2010	0.59
Loughfree	27.11.2009	04.01.2010	0.36

**2008**

Report reference: 27328			LOD = 0.003µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	02.01.2008	01.02.2008	0.58
Outfall	02.01.2008	01.02.2008	0.45
Aghada	02.01.2008	01.02.2008	0.25
Saleen	02.01.2008	01.02.2008	0.48
Loughfree	02.01.2008	01.02.2008	0.13

Report reference: 27327			LOD = 0.003µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	01.02.2008	07.03.2008	0.89
Outfall	01.02.2008	07.03.2008	0.98
Aghada	01.02.2008	07.03.2008	0.53
Saleen	01.02.2008	07.03.2008	0.76
Loughfree	01.02.2008	07.03.2008	0.53

Report reference: 35680			LOD = 0.011µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	07.05.2009	05.06.2009	0.56
Outfall	07.05.2009	05.06.2009	0.45
Aghada	07.05.2009	05.06.2009	0.23
Saleen	07.05.2009	05.06.2009	0.30
Loughfree	07.05.2009	05.06.2009	0.21

Report reference: 35680A			LOD = 0.011µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	05.06.2009	03.07.2009	0.27
Outfall	05.06.2009	03.07.2009	0.30
Aghada	05.06.2009	03.07.2009	0.14
Saleen	05.06.2009	03.07.2009	0.28
Loughfree	05.06.2009	03.07.2009	0.09

Report reference: 35680B			LOD = 0.011µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	03.07.2009	05.08.2009	0.32
Outfall	03.07.2009	05.08.2009	0.40
Aghada	03.07.2009	05.08.2009	0.18
Loughfree	03.07.2009	05.08.2009	0.10

Report reference: 37074			LOD = 0.011µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	05.08.2009	04.09.2009	0.40
Outfall	05.08.2009	04.09.2009	0.41
Aghada	05.08.2009	04.09.2009	0.17
Saleen	05.08.2009	04.09.2009	0.42
Loughfree	05.08.2009	04.09.2009	0.08

Report reference: 37074A			LOD = 0.011µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	04.09.2009	23.10.2009	0.75
Outfall	04.09.2009	23.10.2009	0.76
Aghada	04.09.2009	23.10.2009	0.39
Saleen	04.09.2009	23.10.2009	0.67
Loughfree	04.09.2009	23.10.2009	0.26

Report reference: 43032A		LOD = 0.017 $\mu$ gNO <sub>2</sub>	
	Date on	Date Off	Total $\mu$ g NO <sub>2</sub>
Reservoir	02.11.2010	10.12.2010	0.81
Outfall	02.11.2010	10.12.2010	0.87
Aghada	02.11.2010	10.12.2010	0.63
Saleen	02.11.2010	10.12.2010	0.94
Loughfree	02.11.2010	10.12.2010	0.34

## 2009

Report reference: 33375		LOD = 0.010 $\mu$ gNO <sub>2</sub>	
	Date on	Date Off	Total $\mu$ g NO <sub>2</sub>
Reservoir	09.01.2009	11.02.2009	0.82
Outfall	09.01.2009	11.02.2009	0.71
Aghada	09.01.2009	11.02.2009	0.50
Saleen	09.01.2009	11.02.2009	0.64
Loughfree	09.01.2009	11.02.2009	0.29

Report reference: 33375A		LOD = 0.011 $\mu$ gNO <sub>2</sub>	
	Date on	Date Off	Total $\mu$ g NO <sub>2</sub>
Reservoir	11.02.2009	06.03.2009	0.61
Outfall	11.02.2009	06.03.2009	0.53
Aghada	11.02.2009	06.03.2009	0.38
Saleen	11.02.2009	06.03.2009	0.52
Loughfree	11.02.2009	06.03.2009	0.19

Report reference: 34265		LOD = 0.011 $\mu$ gNO <sub>2</sub>	
	Date on	Date Off	Total $\mu$ g NO <sub>2</sub>
Reservoir	06.03.2009	07.04.2009	0.70
Outfall	06.03.2009	07.04.2009	0.59
Aghada	06.03.2009	07.04.2009	0.29
Saleen	06.03.2009	07.04.2009	0.46
Loughfree	06.03.2009	07.04.2009	0.17

Report reference: 34265A		LOD = 0.011 $\mu$ gNO <sub>2</sub>	
	Date on	Date Off	Total $\mu$ g NO <sub>2</sub>
Reservoir	07.04.2009	07.05.2009	0.43
Outfall	07.04.2009	07.05.2009	0.50
Aghada	07.04.2009	07.05.2009	0.23
Saleen	07.04.2009	07.05.2009	0.44
Loughfree	07.04.2009	07.05.2009	0.17

Report reference: 39118B			LOD = 0.015µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	04.03.2010	09.04.2010	0.61
Outfall	04.03.2010	09.04.2010	0.72
Aghada	04.03.2010	09.04.2010	0.36
Saleen	04.03.2010	09.04.2010	0.60
Loughfree	04.03.2010	09.04.2010	0.27

Report reference: 41772			LOD = 0.011µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	09.07.2010	03.08.2010	0.01
Outfall	09.07.2010	03.08.2010	0.33
Aghada	09.07.2010	03.08.2010	0.03
Loughfree	09.07.2010	03.08.2010	0.08

Report reference: 41772A			LOD = 0.011µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	03.08.2010	08.09.2010	0.42
Outfall	03.08.2010	08.09.2010	0.41
Aghada	03.08.2010	08.09.2010	0.27
Loughfree	03.08.2010	08.09.2010	0.14

Report reference: 41772B			LOD = 0.011µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	08.09.2010	05.10.2010	0.29
Outfall	08.09.2010	05.10.2010	0.34
Aghada	08.09.2010	05.10.2010	0.17
Saleen	08.09.2010	05.10.2010	0.35
Loughfree	08.09.2010	05.10.2010	0.12

Report reference: 43032			LOD = 0.017µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	05.10.2010	02.11.2010	0.48
Outfall	05.10.2010	02.11.2010	0.61
Aghada	05.10.2010	02.11.2010	0.35
Saleen	05.10.2010	02.11.2010	0.61
Loughfree	05.10.2010	02.11.2010	0.21



Report reference: 44552A		LOD = 0.014µgNO <sub>2</sub>	
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	07.04.2011	02.05.2011	0.50
Outfall	07.04.2011	02.05.2011	0.34
Aghada	07.04.2011	02.05.2011	0.03
Saleen	07.04.2011	02.05.2011	0.39
Loughfree	07.04.2011	02.05.2011	0.27

Report reference: 46065A		LOD = 0.017µgNO <sub>2</sub>	
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	02.05.2011	07.06.2011	0.32
Outfall	02.05.2011	07.06.2011	0.28
Saleen	02.05.2011	07.06.2011	0.20
Aghada	02.05.2011	07.06.2011	0.26
Loughfree	02.05.2011	07.06.2011	0.10

Report reference: 46065B		LOD = 0.017µgNO <sub>2</sub>	
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	07.06.2011	05.07.2011	0.4
Outfall	07.06.2011	05.07.2011	0.36
Aghada	07.06.2011	05.07.2011	0.22
Loughfree	07.06.2011	05.07.2011	0.11

## 2010

Report reference: 39118		LOD = 0.015µgNO <sub>2</sub>	
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	04.01.2010	04.02.2010	0.84
Outfall	04.01.2010	04.02.2010	0.90
Aghada	04.01.2010	04.02.2010	0.57
Saleen	04.01.2010	04.02.2010	0.86
Loughfree	04.01.2010	04.02.2010	0.33

Report reference: 39118A		LOD = 0.015µgNO <sub>2</sub>	
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	04.02.2010	04.03.2010	0.65
Outfall	04.02.2010	04.03.2010	0.80
Aghada	04.02.2010	04.03.2010	0.42
Loughfree	04.02.2010	04.03.2010	0.31

ESB Aghada, Whitegate, Cork NO<sub>2</sub> Sampling 2005 to 2011:  
Nitrogen Dioxide Monitoring:

Nitrogen dioxide absorbed as nitrite by triethanolmine is determined spectrophotometrically (ultra-violet/visible) at 540 nanometres. Nitrite reacts with the added reagent to form a reddish purple azo dye. The optical density of this complex is then measured by a spectrophotometer.

**2011**

Report reference: 43777			LOD = 0.014µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	10.12.2010	04.02.2011	1.17
Outfall	10.12.2010	04.02.2011	1.58
Saleen	10.12.2010	04.02.2011	1.64
Loughfree	10.12.2010	04.02.2011	0.62

Report reference: 43777A			LOD = 0.014µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	04.02.2011	04.03.2011	0.41
Outfall	04.02.2011	04.03.2011	0.52
Aghada	04.02.2011	04.03.2011	0.25
Saleen	04.02.2011	04.03.2011	0.54
Loughfree	04.02.2011	04.03.2011	0.13

Report reference: 44552			LOD = 0.014µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	04.03.2011	07.04.2011	0.57
Outfall	04.03.2011	07.04.2011	0.53
Aghada	04.03.2011	07.04.2011	0.28
Saleen	04.03.2011	07.04.2011	0.08
Loughfree	04.03.2011	07.04.2011	0.24

Report reference: 46065			LOD = 0.017µgNO <sub>2</sub>
	Date on	Date Off	Total µg NO <sub>2</sub>
Reservoir	07.04.2011	02.05.2011	0.41
Outfall	07.04.2011	02.05.2011	0.42
Loughfree	07.04.2011	02.05.2011	0.12

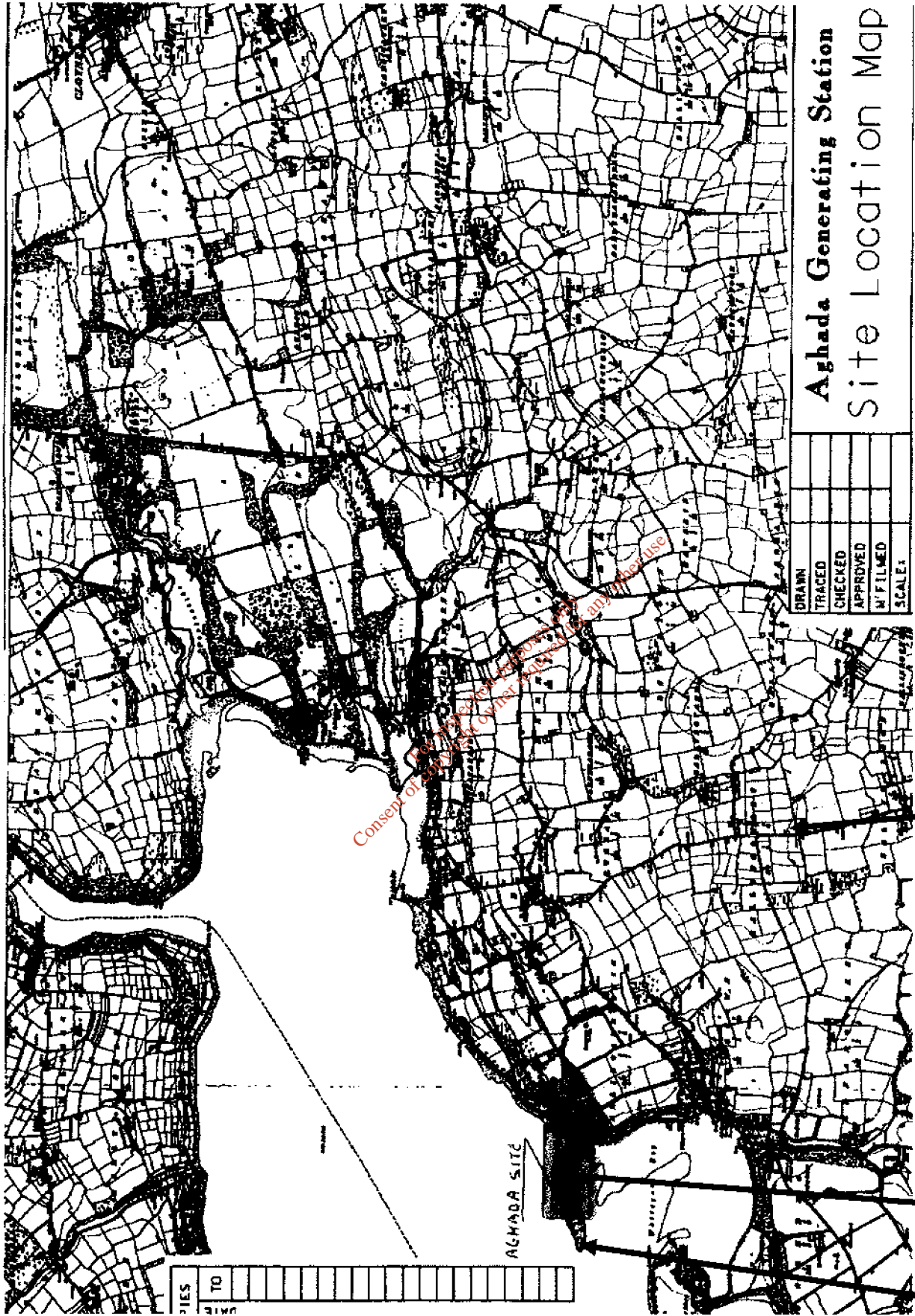
- **Enclosure 2: Results of NO<sub>2</sub> analysis from 2005 to 2011**

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

Column 1 - Condition	Column 2 - Reason.
<p>(1) The chimney stack shall be marked and/or lighted to the satisfaction of the Minister for Transport &amp; Power.</p>	<p>For the guidance and protection of aircraft.</p>
<p>(2) The developer shall install, in accordance with a scheme to be agreed in advance with the Planning Authority, in the Whitegate/Midleton/Cobh area four continuously recording monitors for the purpose of showing levels of sulphur dioxide concentrations. A baseline study shall be carried out over a period of 12 months prior to commissioning the plant and maps prepared showing the isopleths of sulphur dioxide concentrations during different weather conditions. The results of the study shall be made available to the Planning Authority.</p>	<p>To monitor ground level concentrations of sulphur dioxide in the area.</p>
<p>(8) Details of the de-ionisation plant for treating the boiler feed water shall be submitted to and agreed with the Planning Authority. This equipment shall be capable of treating and retaining generated salts and sludges.</p>	<p>To prevent water pollution and to protect the amenities of the area.</p>
<p>(9) Subject to the results of the analysis referred to in Condition no. 10, the temperature of the water in the estuary resulting from the discharge of cooling waters shall not exceed 0.5 degrees C above ambient estuary water temperature measured at points not exceeding 600 metres from the outlet weir. The cooling waters shall not be discharged at a temperature exceeding 27 degrees Centigrade.</p>	<p>To prevent pollution of the estuary and damage to marine life.</p>
<p>An impact analysis shall be made to ascertain the ecological effect of discharging heated waters as proposed into the estuary with particular reference to Whitegate Bay and having regard to the results obtained and such other factors as</p>	

**Enclosure 1: Planning register reference: 1665/75 –  
Condition 7.**

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



# Aghada Generating Station Site Location Map

DRAWN	
TRACED	
CHECKED	
APPROVED	
M'FILED	
SCALE:	

SHEETS	
1 TO	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	

- 1. Aghada Station Outfall
- 2. Aghada Station Reservoir
- 3. Ballyvaloon

Consent of the Council of the County Council, Dublin, Ireland



4. Saleen

5. Ballyshane

Aghada Power Station

⑥ The only escape route from an ~~inner office~~ should never lead through an access office with

CORK COUNTY COUNCIL.

LOCAL GOVERNMENT (PLANNING AND DEVELOPMENT) ACT, 1963.

Notification of Decision to Grant a Permission/~~approval~~ (Subject to Conditions) under Section 26 of the Act.

Reference No. in Planning Register. 1665/75  
To/ Electricity Supply Board, Lt. Fitzwilliam Street, Dublin.

In pursuance of the powers conferred upon them by the above-mentioned Act, the Council of the County of Cork have by order dated **3 DEC 1975** decided to grant a permission/~~approval~~ for the development of land namely:

Erection of a 270 MW Gas Fired Generating Station at Long Point, Aghada

in accordance with the plans and particulars submitted by the applicant on **2/7/75** as amended on **15/7/75, 7/10/75, 11/11/75** and subject to the conditions set out in Column 1 of the Schedule attached hereto. The reasons for the imposition of the said conditions are set out in Column 2 of the Schedule.

If there is no appeal against the said decision, a grant of Permission/~~approval~~ in accordance with the decision will be issued after the expiration of the period within which an appeal may be made to the Minister for Local Government. (See footnote).

It should be noted that until a grant of permission/~~approval~~ has been issued, the development in question is **NOT AUTHORISED**.

Room 1001,  
County Hall,  
Cork.

Signed on behalf of the said Council.

Date: **3 DEC 1975**

NOTE:

An appeal against a decision of a Planning Authority under Section 26 or Section 27 of the Act of 1963 may be made to the Minister for Local Government. The APPLICANT FOR PERMISSION may appeal within ONE MONTH beginning on the day of receipt by him of the decision. ANY OTHER PERSON may appeal to the Minister within THREE WEEKS beginning on the date of the decision.

Appeals should be addressed to the SECRETARY, DEPARTMENT OF LOCAL GOVERNMENT (Planning Appeals Section), CUSTOM HOUSE, DUBLIN 1. An appeal by the applicant for permission SHOULD BE ACCOMPANIED BY THIS FORM. In the case of an appeal by any other person the name of the applicant, particulars of the proposed development or of the structure to be retained and the date of the decision of the Planning Authority should be stated.



Reference Number in Planning Register. 1653/75

Column 1 - Condition

Column 2 - Reason.

provided that:

(1) The fuel source shall be natural gas. In the event of natural gas not being available due to a breakdown or an interruption of the supply the temporary utilization of residual oil shall be permitted as a substitute fuel source.

To protect public health and the amenities of the area.

(2) Details of the fish screening plant at the sea water intake chamber and outlet weir chamber shall be submitted to and agreed with the Planning Authority and the Minister for Agriculture & Fisheries before the development is commenced.

To prevent injury to fish life in the estuary.

(3) The oil storage tanks and drum storage areas shall be contained in a bunded compound designed and constructed to the satisfaction of the Planning Authority and of sufficient capacity to contain a total spillage plus 10%. The storage tanks shall be separately bunded. All structures comprising the bunded areas shall be tested to a suitable head to ensure that they are oil and waterproof. All oil unloading areas shall have special sumps for collecting any spillage or washings. A surface water drainage channel shall be provided with suitable traps and complete with manholes to deal with minor spillages.

To contain oil spillage and to protect the amenities of the area.

(4) Oil interceptors of approved design shall be installed on the waste water sewers and the oil content of the treated effluent shall not exceed 5 mg/litre and full details shall be agreed with the Planning Authority before the development is commenced.

To prevent pollution by oil spillage.

(5) Domestic sewage from the development shall be treated to the following standards before discharge to the estuary. The Biochemical Oxygen Demand shall not exceed 20 mg/litre and the suspended solids shall not

To protect public health and prevent injury to marine life and amenities of the estuary.

cont./11

Reference Number in Planning Register. 1653/75 / 2 /

Column 1 - Condition

Column 2 - Reason.

(b) The height of the chimney stack shall not be less than 152.5 above base level. When residue gas oil is used under emergency conditions as per Condition No. 1 above exceed 10 mg/litre. The feasibility of a joint sewerage system for Whitgere Village and the Generating Station development shall be investigated and negotiated with Cork County Council.

To minimise the adverse effects of gas emissions on the ecology of the area.

(a) The total emission of sulphur dioxide from the chimney stack shall not exceed 67 tons in any period of 24 hours.

(b) The efflux velocity of the waste gases from the chimney stack shall not be less than 23 metres/sec.

(c) Sulphur dioxide concentrations in the chimney stack shall not exceed 0.15% by volume when averaged over any 24 hour period and shall not exceed 0.15% by volume at any time.

(d) The composition of the stack gas shall be monitored by continuously recording instruments to ascertain and record the volumes of carbon dioxide and sulphur dioxide. These analyses shall be made available for inspection by any person employed and agents of the Planning Authority at all reasonable times.

(e) Gas sampling points shall be provided on the chimney stack and access to the sampling areas shall be provided at all reasonable times for the authorised employees and agents of the Planning Authority.

cont.

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

SCHEDULE

Reference Number 1665/75  
in Planning Register

13 /

Column 1 - Condition

Column 2 - Reason.

(8) The chimney stack shall be marked and/or lighted to the satisfaction of the Minister for Transport & Power.

For the guidance and protection of aircraft.

(7) The developer shall install, in accordance with a scheme to be agreed in advance with the Planning Authority, in the Whitgate/Midleton/Cobb area four continuously recording monitors for the purpose of showing levels of sulphur dioxide concentration. A baseline study shall be carried out over a period of 12 months prior to commissioning the plant and maps prepared showing the isopleths of sulphur dioxide concentrations during different weather conditions. The results of the study shall be made available to the Planning Authority.

To monitor ground level concentrations of sulphur dioxide in the area.

(6) Details of the de-ionisation plant for treating the boiler feed water shall be submitted to and agreed with the Planning Authority. This equipment shall be capable of treating and retaining generated salts and sludges.

To prevent water pollution and to protect the amenities of the area.

(5) Subject to the results of the analysis referred to in Condition No. 10, the temperature of the water in the estuary resulting from the discharge of cooling waters shall not exceed 0.5 degrees C above ambient estuary water temperature measured at points not exceeding 600 metres from the outlet weir. The cooling waters shall not be discharged at a temperature exceeding 27 degrees Centigrade.

To prevent pollution of the estuary and damage to marine life.

(10) An impact analysis shall be made to ascertain the ecological effect of discharging heated waters as proposed into the estuary with particular reference to Whitgate Bay and having regard to the results obtained and such other factors as

SCHEDULE

Reference Number in  
Planning Register. 1667/75

14 /

Column 1 - Condition.

Column 2 - Reason.

may be relevant the Planning Authority may specify lesser or greater temperatures for the purposes of Condition No. 9

To regulate the level of noise and protect the amenities of the area.

(11) The noise levels from the generating station shall not exceed 35 d.b.a during 22.00 hours to 8.00 hours and 45 d.b.a. at other times when measured at any place 450 metres distant from the centre of the Engine House under wind conditions as defined by the Beaufort Scale No. zero or 1. A baseline study shall be carried out for a period of 12 months prior to commissioning the plant.

(12) The capacity of on site storage water for boilers and sanitary purposes shall not be less than 6500 cubic metres.

To ensure adequate reserves on site in cases of emergency.

(13) Before the development commences agreement shall be reached with the Planning Authority on satisfactory arrangements for the supply of water to the proposed development including agreement on the sum payable by the developer to the Planning Authority in respect of any works which may be necessary for the supply of water to the site.

To ensure an adequate supply of water to the development.

(14) Details of the method for delivery of residual oil stocks to the site by temporary pipeline shall be submitted for the approval of the Planning Authority.

To protect the amenities of the area.

(15) Clearance between the underside of the new bridge and the existing road surface shall not be less than 6.8 metres.

To prevent a traffic hazard

(16) The clear span between the abutments of the new bridge shall not be less than 15 metres. An "Armo" type barrier shall be erected close to each abutment and "applied in" at either side of the abutment ends.

do.

SCHEDULE

Reference Number in Planning Register 1667/75

/5/

Column 1 - Condition

Column 2 - Reason.

(c) The finished abutments shall have an exposed aggregate finish to an approved texture.

To protect visual amenities.

(d) Details of the approach ramp road fencing shall be submitted and agreed with the Planning Authority before construction commences.

do.

(16) (a) Entrance to development for all traffic from the north (Mickleton Road) to be via a new deceleration lane to be provided at developers expense and access road to proposed over bridge and thence into site.

In the interests of road safety.

(b) Exit from site for all traffic and entrance for traffic from south (Whitegate Road) to be via a revised junction to be provided at developers expense as indicated at southern boundary of the site on drawing No. C 97877.

do.

(c) Details of both junctions to scale of 1/500 to be submitted to and agreed with the Planning Authority before any work commences.

do.

(d) All works which involve any alteration to the existing road resulting from this development shall be carried out at the expense of the developer and to the satisfaction of the Planning Authority.

do.

(e) Sight lines along the road approach to the development shall be improved as shown on plan and to the satisfaction of the Planning Authority.

do.

(17) (a) During construction work developer shall provide to the satisfaction of the Planning Authority adequate on site vehicle parking facilities.

To prevent obstruction to the free flow of traffic on the public road.

SCHEDULE

Reference Number in Planning Register. 1667/75

/6/

Column 1 - Condition

Column 2 - Reason.

(b) The developer shall be responsible during construction period for the proper maintenance and upkeep of the public road adjacent to the development

To prevent a traffic hazard.

(c) The sloping sides of the approach roads shall be properly graded and seeded to the satisfaction of the Council. Shrubs of approved type shall be planted.

To protect visual amenities.

(d) Details of the protective barrier to be erected on the bridge parapet during the excavation and transport of landfill across the bridge shall be submitted to and agreed with the Planning Authority before work commences on the site.

To prevent a traffic hazard.

(18) Drawings and details of pumphouses, gatekeepers office, site toilets, First Aid Hut, Tower Mast and gas treatment building shall be submitted to and agreed with the Planning Authority before work commences.

In the interests of visual amenity.

(19) Details of all oil storage tanks, pylons and overhead transmission lines shall be submitted to and agreed with the Planning Authority before work commences.

To protect visual amenities.

(20) (a) Proposals for providing a temporary water supply, sewerage facilities and lighting on site during construction period shall be submitted to and agreed with the Planning Authority before work commences.

To prevent a health hazard.

(b) The design of permanent lighting scheme shall be subdued and be not alone functional but also contribute to the overall aesthetic aspects of the development by creating an attractive night scene

To protect visual amenities and prevent a traffic hazard.

For inspection purposes only. Copyright owner required for any other use.

Reference Number in Planning Register. 1667/75 / 7 /

Column 1 - Condition.

Column 2 - Reason.

- (20) site lighting during construction cont./ shall not create a traffic hazard.
- (c) Public lighting shall be erected on the existing public road along the fringes of the site and approaching it.
- (21) Before the development is commenced details plans and particulars showing the location and dimensions of all structures, including bunding areas and bund walls shall be submitted by the developer to the planning authority and agreed with the planning authority. The said plans and particulars shall include a comprehensive landscaping scheme including arrangements for the screening and fencing of the development, the sowing and planting of the site and chalking and colour treatment of all structures and external ancillary equipment. The fencing of the site shall be concealed with planting or ground moulding where possible. All exposed fencing must be plastic coated in subdued colours.
- (22) All areas of tree planting and vegetation on the landward site which are not affected by the development and which constitute an essential part of the final landscaping scheme shall be clearly marked out and fenced off during construction work. All areas where top soil is damaged shall be restored and hydro-seeded.
- (23) Wherever in accordance with the foregoing conditions revised plans and particulars are submitted to the planning authority and are agreed with that authority the development to which the said plans and particulars relate shall be carried out in accordance with the said plans and particulars.

To prevent undesirable light intensity differences on road.

In the interests of visual amenity.

To protect existing land and tree planting material from injury during construction period.

To ensure that development is carried out in accordance with the said plans and particulars.

cont./

Reference Number in Planning Register. 1667/75 / 8 /

Column 1 - Condition.

Column 2 - Reason.

- (24) Before the development is commenced the developer shall pay to Cork County Council a contribution of £25,000.00 towards the expenditure proposed to be incurred by the Council in respect of scheme for provision of amenities in the area which will facilitate the proposed development.
- The making of the said contribution shall be subject to the following stipulations:-
- (a) If the proposed scheme is not commenced within a period of seven years from the date of this Order, the contribution shall forthwith be returned to the Developer by the Council;
- (b) If the proposed scheme is within the said period of seven years, carried out in part only or in such a manner as to facilitate the proposed development to a lesser extent than is at present envisaged, a proportionate part of the said contribution shall be returned to the Developer by the Council, the amount of such proportionate part to be settled by agreement between the Developer and the Council;
- (c) The said contribution shall, for so long as it remains unexpended by the Council, be invested by the Council in a manner to be agreed between the Developer and the Council, and interest as it accrues shall be paid to the Developer until such time as the capital sum is withdrawn by the Council for expenditure on the scheme or until such time as the sum is withdrawn by the Council for repayment to the Developer in accordance with stipulation (a).
- It is considered appropriate that developer should contribute towards the cost of the scheme proposed for the provision of amenities in the Whitegate Area and having regard to the environmental impact of the proposed Generating Station development including its effect on the existing foreshore.

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