



# Tyrone - Cavan Interconnector

Volume 3 - Part 2 of 5

Consolidated Environmental Statement  
Appendices



Part funded by  
EU TEN-E Initiative





Produced in association with:

**AECOM**

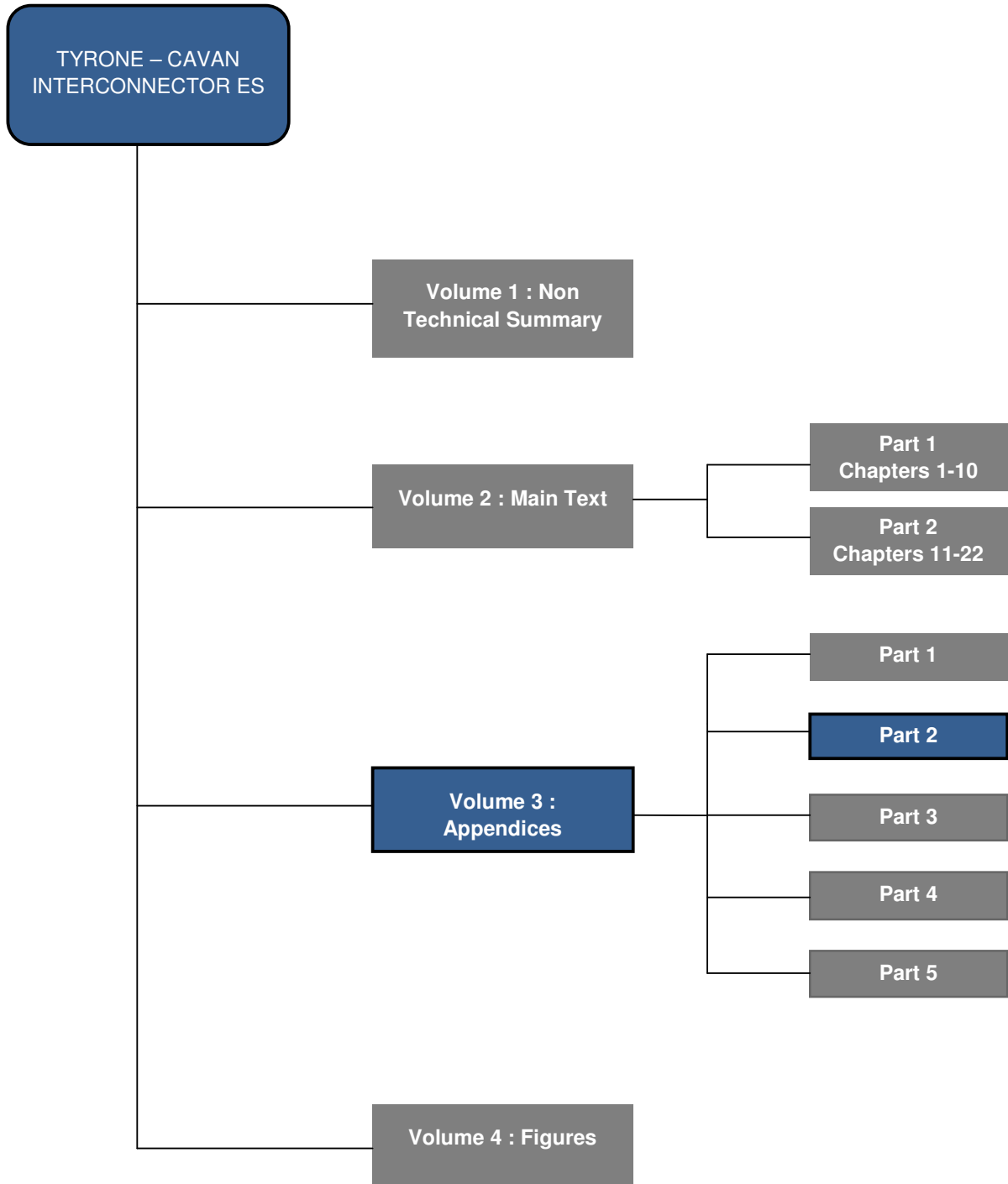
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**This document is Volume 3 : Appendices Part 2 of the  
Tyrone – Cavan Interconnector Environmental Statement (ES).**

The whole ES consists of a number of documents printed separately and should be read together.



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For ease of use this document has been printed in A4 format. Should a larger format be required, an electronic version is available at [www.nie.co.uk](http://www.nie.co.uk).

Alternatively a printed A3 version may be obtained by contacting NIE at:

NIE Major Projects  
120 Malone Road, Belfast, BT9 5HT  
Tel: 08457 643 643

**ES Consultations 2006-2009**

**Appendix A:**

**Consultation Responses Received  
(Alphabetical Order)**



**Consultation Responses from the Police Service Northern Ireland (2009 – 2006)**



Making Northern Ireland Safer For Everyone Through Professional, Progressive Policing

Ms M. Maquire,  
Aecom,  
24, Linenhall Street,  
Belfast.  
BT2 8BG

**NIE North South 400kV Interconnector**

Dear Ms. Maquire,

NIE are prepared to submit the revised Tower 80 location, detailed in file ref:PE687-FO141-R141-001-000, as part of the overall scheme. PSNI ICS therefore withdraws the objection dated 17.06.2009 to the project and can confirm that in it's revised state the project should have no effect on any PSNI ICS owned or managed, system or network.

Regards,

A handwritten signature in blue ink, appearing to read 'D. Prebble', with a long horizontal stroke extending to the right.

**Derick Prebble**  
Radio Systems Development

31.07.2009

**Information & Communications Services**  
18 Lislea Drive, Lisburn Road, Belfast, BT9 7JG  
Tel: (028) 9090 1605  
e-mail: [derick.prebble@psni.pnn.police.uk](mailto:derick.prebble@psni.pnn.police.uk)





Making Northern Ireland Safer For Everyone Through Professional, Progressive Policing

Your Ref: 45457IBL 00 300 07 (19.07.06) Letter

Our Ref: HD06/1206/209

25 July 2006

Ms J McDowell  
Principal Environmental Scientist  
Faber Maunsell  
1<sup>st</sup> Floor  
24 Linenhall Street  
BELFAST  
BT2 8BG

Job No:	45457IBL
Faber Maunsell-Belfast	
Reviewed by:	J.McD
DC	de
Date:	31 JUL 2006
Actioned by:	
Date:	
Copy to:	
Filing Location:	00 301

Dear Madam

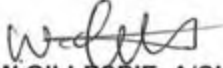
RE: PROPOSED TYRONE/CAVAN INTERCONNECTOR – 400kV  
OVERHEAD LINE AND SUBSTATION.

I refer to your letter dated 10 July 2006 relative to the above subject. Given the information contained in the consultation documentation, I would envisage that there could be significant disruption to traffic during the implementation of the scheme.

In these circumstances it would be appropriate if consultation/liaison took place with PSNI Roads Policing, Traffic Management, Lisnasharragh.

If I can be of any further assistance please don not hesitate to contact me.

Yours faithfully

  
W GILLESPIE, A/Chief Inspector  
OPERATIONS MANAGER

**Armagh District Command Unit**  
1-2 City View, Newry Road, Armagh, Northern Ireland, BT60 1EP,  
Web: [www.psnipolice.uk](http://www.psnipolice.uk); Fax: 028 37521156; Minicom: 028 37521174  
Tel No: 028 37523311; Email: [armagh@psni.pnn.police.uk](mailto:armagh@psni.pnn.police.uk);





Making Northern Ireland Safer For Everyone Through Professional, Progressive Policing

Your Ref: 45457IBLE 00 300 06 (10.07.06) Letter

Our Ref: HD06/1206/209

18 July 2006

Faber Maunsell  
1<sup>st</sup> Floor  
24 Linenhall Street  
BELFAST  
BT2 8BG

Dear Sir or Madam

RE: PROPOSED TYRONE/CAVAN INTERCONNECTOR – 400KV OVERHEAD  
LINE AND SUBSTATION.

I hereby acknowledge receipt of your letter dated 10 July 2006 relative to the above subject and my telephone conversation of this date requesting a copy of your correspondence be forwarded to Superintendent Nolan, District Commander, Dungannon and South Tyrone DCU, PSNI Station, Dungannon.

This is to advise you that the matter is receiving attention and a reply will be forwarded in due course.

Yours faithfully

*S Irwin*  
**Sandra Irwin**  
A/STAFF OFFICER FOR  
DISTRICT COMMANDER

Job No:	45457IBLE
	Faber Maunsell-Belfast
Reviewed by:	JM D
	DCU
Date:	24 JUL 2006
Actioned by:	
Date:	
Copy to:	
Filing Location:	00 301

**Armagh District Command Unit**  
1-2 City View, Newry Road, Armagh, Northern Ireland, BT60 1EP,  
Web: [www.psni.police.uk](http://www.psni.police.uk); Fax: 028 37521156; Minicom: 028 37521174  
Tel No: 028 37523311; Email: [armagh@psni.pnn.police.uk](mailto:armagh@psni.pnn.police.uk);



**Consultation Responses from RSPB (2009 – 2006)**



## Craig, Amy

---

**From:** Doyle, Carey  
**Sent:** 04 January 2008 14:29  
**To:** Mackin, Anne-Marie  
**Cc:** Sutton, Brian; Loughran, Cormac  
**Subject:** FW: interconnector

---

**From:** Ferry, Claire [mailto:Claire.Ferry@rspb.org.uk]  
**Sent:** 04 January 2008 14:27  
**To:** Doyle, Carey  
**Subject:** FW: interconnector

Dear Carey

### Re: Tyrone-Cavan interconnector

I'm catching up with casework after a month's holiday, so I apologise for the delay in responding to this. Thankfully although I missed your 21 Nov deadline I don't have anything to add. I've attached the comments I made to Julie originally and the RSPB position hasn't changed. I might make more detailed comments once we've seen the ES.

All the best for 2008  
Claire

---

**From:** Ferry, Claire  
**Sent:** 26 July 2006 12:10  
**To:** 'julie.mcdowell@fabermaunsell.com'  
**Subject:** RE: interconnector

Dear Julie

Thanks to your colleague David for sending through the MapInfo layout of the pipeline, and for consulting the RSPB on this proposal.

I have run a search of our database along the route, but we hold very little information. There is a BTO BBS square at H8459 but you would have to approach them for the data. We hold records of yellowhammer in 1km squares H8253, H7939, H8153 and H8454. The nearest ASSIs of which I am aware are Crossbane Lough and Drumcarn.

Our main concern along the route would be the potential for geese or swan collision with the lines, though this is easily mitigated against. Greenland white-fronted geese and Whooper swans, both Annex 1 species under the Birds Directive, are known to use fields and lakes at Glaslough/Caledon and south of Keady. This puts a potential flight line across the interconnector in a NW-SE direction. The interconnector also follows rivers and streams to a certain extent, which may be used by migrating birds. Unfortunately we do not hold data ourselves about flight paths.

We would therefore encourage you to ascertain the risk of collision through winter survey work for these species, focussing on flightlines, and to locate any sections of the overhead lines which may require swan deflectors. The Irish Whooper Swan Study Group holds records of ringed birds which might show whether these sites/populations are linked.

Otherwise our comments pertain to the process of EIA and seeking appropriate mitigation and enhancement along the route. We would encourage an ecological survey of the whole route at the correct times of year, focussing on habitats and species of interest. These are likely to include:

- Wet grassland

- Hedgerows and mature trees
- Rivers and streams
- Breeding waders (lapwing, redshank, curlew, snipe)
- Yellowhammer

The impact on these habitats, or fields used by birds of conservation concern, should be avoided where possible and minimised where damage is likely. Potential mitigation measures include:

- Careful construction over river crossings
- Minimised footprint on wet grassland, especially sites used by breeding waders, including not improving drainage in any way
- Removal of any vegetation e.g. hedgerows outside the breeding season
- Construction likely to disturb or damage breeding birds timetabled outside the breeding season, or precautionary measures put in place to dissuade birds from an area prior to breeding where construction has to take place March-August

We would seek appropriate compensation and enhancement measures, for example:

- Replacement/additional hedge planting using native species
- Planting of seed-producing wildflowers or grasses to benefit seed-eating birds such as yellowhammer and linnet
- Management of wet grassland to benefit breeding waders

I hope these comments are of use, and look forward to seeing the Environmental Statement in due course.

Regards  
Claire

---

Claire Ferry  
Conservation Officer (Planning)  
RSPB Northern Ireland  
Belvoir Park Forest  
BELFAST  
BT8 7QT  
t: 028 9049 1547  
f: 028 9049 1669

The RSPB is the UK charity working to secure a healthy environment for birds and all wildlife, helping to create a better world for everyone. We depend on the goodwill and financial support of people like you. Click here to join today [www.rspb.org.uk/join](http://www.rspb.org.uk/join).

RE: interconnector

Page 1 of 2

McDowell, Julie

From: Ferry, Claire [Claire.Ferry@rspb.org.uk]  
Sent: 26 July 2006 12:10  
To: McDowell, Julie  
Subject: RE: interconnector

David, please forward to Breen & Cormac #.

45457 1BLE  
JMD JMD  
CL  
25 JUL 2006  
cc 301

Dear Julie

Thanks to your colleague David for sending through the MapInfo layout of the pipeline, and for consulting the RSPB on this proposal.

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We would therefore encourage you to ascertain the risk of collision through winter survey work for these species, focussing on flightlines, and to locate any sections of the overhead lines which may require swan deflectors. The Irish Whooper Swan Study Group holds records of ringed birds which might show whether these sites/populations are linked.

Jim Votts

contact?

Gabran McIlwaine 1005746101  
0130 730

Otherwise our comments pertain to the process of EIA and seeking appropriate mitigation and enhancement along the route. We would encourage an ecological survey of the whole route at the correct times of year, focussing on habitats and species of interest. These are likely to include:

- Wet grassland
- Hedgerows and mature trees
- Rivers and streams
- Breeding waders (lapwing, redshank, curlew, snipe)
- Yellowhammer

6661 2915  
(gabran.mcilwaine@vign.net)

The impact on these habitats, or fields used by birds of conservation concern, should be avoided where possible and minimised where damage is likely. Potential mitigation measures include:

- Careful construction over river crossings
- Minimised footprint on wet grassland, especially sites used by breeding waders, including not improving drainage in any way
- Removal of any vegetation e.g. hedgerows outside the breeding season
- Construction likely to disturb or damage breeding birds timetabled outside the breeding season, or precautionary measures put in place to dissuade birds from an area prior to breeding where construction has to take place March-August

We would seek appropriate compensation and enhancement measures, for example:

- Replacement/additional hedge planting using native species
- Planting of seed-producing wildflowers or grasses to benefit seed-eating birds such as yellowhammer and linnnet
- Management of wet grassland to benefit breeding waders

26/07/2006

I hope these comments are of use, and look forward to seeing the Environmental Statement in due course.

Regards  
Claire

---

Claire Ferry  
Conservation Officer (Planning)  
RSPB Northern Ireland  
Belvoir Park Forest  
BELFAST  
BT8 7QT  
t: 028 9049 1547  
f: 028 9049 1669

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...

**Consultation Responses from the Southern Group Environmental Health Committee  
(2009 – 2006)**

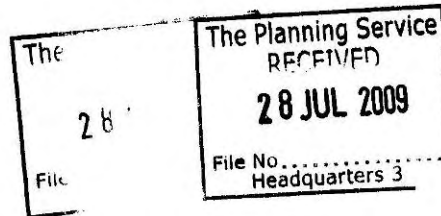


Logged  
28/7/09



Our Ref D/09/007  
Planning Ref O/08/0822Q

Date: 27 July 2009



## Comments on Planning Application

**LOCATION** LANDS WITHIN ARMAGH DISTRICT COUNCIL AND DUNGANNON  
BOROUGH COUNCIL

**PROPOSAL** PAD FOR PROPOSED NORTH-SOUTH ELECTRICITY INTERCONNECTOR

### COMMENTS

27/07/2009 COMMENT:  
O/2008/0822/Q

I make the following comments on behalf of Environmental Health – Dungannon & South Tyrone Borough Council.

I refer to my previous correspondence. I have now examined the detail submitted in “Tyrone Cavan 400 kV Interconnector Environmental Statement – Chapters 2, 3 & 7 April & May 2009”. I would make the following additional comments:

Electro-magnetic fields (EMFs)

I have previously commented that it will be necessary to demonstrate that the proposed development will not give rise to public exposure at relevant locations in excess of the limit values published by the International Commission for Non-Ionising Radiation Protection which have been adopted by the UK Government for the protection of health.

It is noted from Chapter 11 – 11.3.16(i) that the majority of properties along the route are at least 100m from the line with some properties located closer than 100m. It is understood that no properties are located less than 60m from the proposed line.

I have examined the calculations of electric and magnetic field exposure presented in Chapter 7. Referring to the results of these calculations chapter 7 – 7.3.1(g) advises that, “The EMFs produced by the Tyrone – Cavan 400kV overhead transmission line

*Note: Any consultation response provided by the Environmental Health Department is based on:  
- information supplied by the applicant, and  
- other information currently available.”*



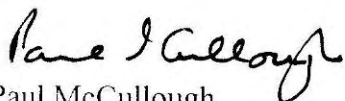
at the closest habitable dwelling are both well within the ICNIRP Reference Level." I understand that the closest habitable dwelling has been put forward as a worst-case assessment and that dwellings located further away will therefore be less exposed to EMF

I understand that some public concern exists in relation to exposure to EMF from the proposed development. The applicant should be encouraged to take a precautionary approach where possible and should give due consideration to technical aspects such as optimal phasing, the position of the lines and other relevant matters which could be incorporated into the proposed development for the purpose of minimising EMF exposure.

In view of the details submitted, I would have no further environmental health objections in relation to EMFs associated with this application.

I would point out that should any existing uninhabitable dwellings within proximity of the proposed transmission line be intended to be brought back into residential use or should a new dwelling be proposed, it will be necessary for Planning Service to give due consideration to EMF exposure at these locations.

In addition please note that these comments have been provided by the Environmental Health Department only, should this matter proceed to full planning application it is anticipated that additional comments will be provided by the body corporate and / or other Council Departments.



Paul McCullough

Principal Environmental Health Officer (Environmental Protection)  
Southern Group Environmental Health Committee

c.c. Deputy Director, Environmental Health, Dungannon & South Tyrone Borough Council

*"Note Any consultation response provided by the Environmental Health Department is based on:  
information supplied by the applicant, and  
other information currently available."*



**Our Ref** A/09/001

**Planning Ref** O/08/0822Q

**Date:** 12 January 2009

## Comments on Planning Application

**LOCATION** LANDS WITHIN ARMAGH DISTRICT COUNCIL AND DUNGANNON  
BOROUGH COUNCIL

**PROPOSAL** PAD FOR PROPOSED NORTH-SOUTH ELECTRICITY INTERCONNECTOR

### COMMENTS

12/01/2009 FURTHER COMMENT

Please note that my original comments also apply on behalf of Environmental Health -  
Dungannon and South Tyrone Borough Council.

Paul McCullough  
Principal Environmental Health Officer (Environmental Protection)  
Southern Group Environmental Health Committee

c.c. Deputy Director of Environmental Health, Dungannon and South Tyrone Borough  
Council

5/1/2009 ORIGINAL COMMENT

I have examined the detail submitted in "Tyrone Cavan 400 kV Interconnector  
Environmental Statement – Volumes 1 and 2 – Draft for PAD, DOE Planning  
Service" dated November 2008.

I would make the following comments on behalf of Environmental Health - Armagh  
City and District Council:

EMFs

I note that the section on EMF has yet to be prepared. When this section is submitted  
for assessment, the applicant should ensure that reference is made to the most relevant

*"Note Any consultation response provided by the Environmental Health Department is based on:  
information supplied by the applicant, and  
other information currently available."*

Page 1 of 3

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Employer Council: Armagh City and District Council



and recent guidance issued by the Health Protection Agency and other authoritative UK Government sources. As the proposed development will introduce an EMF source to a wide area of mixed residential, commercial, agricultural and other uses, it would be expected that the applicant shall demonstrate that all areas of public exposure associated with the proposal shall not exceed relevant reference levels.

In October 2008 I advised Faber Maunsell directly in this regard.

#### Noise

I note the noise impact assessment prepared in relation to the proposed development. I note the proposed use of best practice techniques to minimise disturbance during the construction phase.

From the Environmental Statement – Draft, I understand that noise will be emitted during the operational phase from both the power-lines themselves and the substation to be located at Turleenan, Moy, Co Tyrone.

I am concerned that noise emitted from both the power-lines and the substation may give rise to noise disturbance to occupiers of nearby residential premises. This will particularly be the case during night-time hours with calm weather conditions when the background noise will be lower and the potential for residents to have open bedroom windows is higher.

I have examined the noise assessments submitted and understand that the predicted broadband noise levels will fall within the targets suggested by the applicant. However, the applicant has acknowledged that the noise associated with electricity transmission infrastructure is tonal in nature, typically at 50 and 100Hz. Where noise is tonal in nature (and particularly with low-frequency noise of this type) it is possible that an assessment of the broadband noise may not adequately reflect the potential noise that may be experienced by human receptors.

Therefore, I would request that the applicant provide additional detail on the frequency specific nature of the noise associated with the power-lines and the substation. The applicant should also assess the potential impact of these frequencies upon the existing noise climate and should advise on the potential effect of these noises at residential premises. It is acknowledged that masking and attenuation are likely to be factors that will reduce adverse effects due to noise, however, in the absence of further frequency specific data I cannot determine the likelihood of noise disturbance associated with the proposed development.

#### Contaminated Land

I would support the applicant's undertaking to conduct an assessment of the potential

*"Note Any consultation response provided by the Environmental Health Department is based on:  
· information supplied by the applicant, and  
· other information currently available."*

Page 2 of 3



Riverside House Tower Hill Complex Armagh BT61 9EG

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Employer Council: Armagh City and District Council

effects of the development upon any suspected contaminated land during construction.

Air Quality

I note the applicant's assertion that there will be no air quality impacts beyond the construction phase.

Paul McCullough  
Principal Environmental Health Officer  
Southern Group Environmental Health Committee

c.c. Business Manager  
Health and Environmental Regulatory Services  
Armagh City and District Council

c.c. Deputy Director of Environmental Health, Dungannon and South Tyrone Borough Council

*"Note Any consultation response provided by the Environmental Health Department is based on:  
information supplied by the applicant, and  
other information currently available."*





**Our Ref** A/09/001

**Planning Ref** O/08/0822Q

**Date:** 05 January 2009

## Comments on Planning Application

**LOCATION** LANDS WITHIN ARMAGH DISTRICT COUNCIL AND DUNGANNON  
BOROUGH COUNCIL

**PROPOSAL** PAD FOR PROPOSED NORTH-SOUTH ELECTRICITY INTERCONNECTOR



### COMMENTS

#### 5/1/2009 ORIGINAL COMMENT

I have examined the detail submitted in "Tyrone Cavan 400 kV Interconnector Environmental Statement – Volumes 1 and 2 – Draft for PAD, DOE Planning Service" dated November 2008.

I would make the following comments on behalf of Environmental Health - Armagh City and District Council:

#### EMFs

I note that the section on EMF has yet to be prepared. When this section is submitted for assessment, the applicant should ensure that reference is made to the most relevant and recent guidance issued by the Health Protection Agency and other authoritative UK Government sources. As the proposed development will introduce an EMF source to a wide area of mixed residential, commercial, agricultural and other uses, it would be expected that the applicant shall demonstrate that all areas of public exposure associated with the proposal shall not exceed relevant reference levels.

In October 2008 I advised Faber Maunsell directly in this regard.

#### Noise

I note the noise impact assessment prepared in relation to the proposed development. I note the proposed use of best practice techniques to minimise disturbance during the construction phase.

*"Note Any consultation response provided by the Environmental Health Department is based on:  
information supplied by the applicant, and  
other information currently available."*



From the Environmental Statement – Draft, I understand that noise will be emitted during the operational phase from both the power-lines themselves and the substation to be located at Turleenan, Moy, Co Tyrone.

I am concerned that noise emitted from both the power-lines and the substation may give rise to noise disturbance to occupiers of nearby residential premises. This will particularly be the case during night-time hours with calm weather conditions when the background noise will be lower and the potential for residents to have open bedroom windows is higher.

I have examined the noise assessments submitted and understand that the predicted broadband noise levels will fall within the targets suggested by the applicant. However, the applicant has acknowledged that the noise associated with electricity transmission infrastructure is tonal in nature, typically at 50 and 100Hz. Where noise is tonal in nature (and particularly with low-frequency noise of this type) it is possible that an assessment of the broadband noise may not adequately reflect the potential noise that may be experienced by human receptors.

Therefore, I would request that the applicant provide additional detail on the frequency specific nature of the noise associated with the power-lines and the substation. The applicant should also assess the potential impact of these frequencies upon the existing noise climate and should advise on the potential effect of these noises at residential premises. It is acknowledged that masking and attenuation are likely to be factors that will reduce adverse effects due to noise, however, in the absence of further frequency specific data I cannot determine the likelihood of noise disturbance associated with the proposed development.

#### Contaminated Land

I would support the applicant's undertaking to conduct an assessment of the potential effects of the development upon any suspected contaminated land during construction.

#### Air Quality

I note the applicant's assertion that there will be no air quality impacts beyond the construction phase.

  
Paul McCullough  
Principal Environmental Health Officer  
Southern Group Environmental Health Committee

c.c. Business Manager  
Health and Environmental Regulatory Services  
Armagh City and District Council

*"Note Any consultation response provided by the Environmental Health Department is based on:  
information supplied by the applicant, and  
other information currently available."*

Page 2 of 3



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f: 028 3751 5801 e: info@sgehc.com

Employer Council: Armagh City and District Council

c.c. Deputy Director of Environmental Health, Dungannon and South Tyrone Borough Council

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information supplied by the applicant, and  
other information currently available."*

Page 3 of 3



Riverside House Tower Hill Complex Armagh BT61 9EG  
f: 028 3751 5801 e: info@sgehc.com  
Employer Council: Armagh City and District Council

**Craig, Amy**

---

**From:** Doyle, Carey  
**Sent:** 15 October 2008 10:23  
**To:** Maguire, Mary K  
**Subject:** FW: Proposed Tyrone Cavan Interconnector

---

**From:** Paul McCullough [mailto:P.McCullough@sgehc.com]  
**Sent:** 15 October 2008 10:10  
**To:** Doyle, Carey  
**Subject:** Proposed Tyrone Cavan Interconnector

Carey,

Thank you for advising me that work was continuing on the proposal to develop a Tyrone Cavan Interconnector.

I can advise that Southern Group Environmental Health Committee is working on a position in relation to such developments. Whilst this is also work in progress I can advise that the position is likely to focus upon the ICNIRP guidelines for public exposure to power frequency fields. Accordingly, I would expect that these guidelines will be referred to in Pre-Application Discussions or as part of the planning application process.

If you wish to discuss this matter please do not hesitate to contact me.

Regards,

**Paul McCullough**  
Principal Environmental Health Officer (Environmental Protection)



Riverside House, Tower Hill Complex, Armagh, BT61 9EG  
t 028 3751 5800 f 028 3751 5801  
e [p.mccullough@sgehc.com](mailto:p.mccullough@sgehc.com)

**Craig, Amy**

---

**From:** Doyle, Carey  
**Sent:** 22 November 2007 09:45  
**To:** Mackin, Anne-Marie  
**Subject:** FW: Proposed Tyrone to Cavan Interconnector - 400kV Overhead Line and Substation

---

**From:** Bronagh Carney [mailto:B.Carney@sgehc.com]  
**Sent:** 21 November 2007 17:23  
**To:** Doyle, Carey  
**Cc:** Fiona McClements; Fionnuala Loughran; Eileen Campbell  
**Subject:** Proposed Tyrone to Cavan Interconnector - 400kV Overhead Line and Substation

Dear Carey Doyle

I acknowledge receipt of correspondence of 1<sup>st</sup> November 2007 to Mr David Lindsay of Southern Group Environmental Health Committee, regarding proposed Tyrone to Cavan Inter-connector - 400kV Overhead Line and Substation. I note that you say we were consulted previously on behalf of your client NIE on this proposal I can find no evidence of this correspondence and would be grateful if you could forward a copy to me as soon as possible. I am currently commissioning a literature review in respect of Health Protection Agency and World Health Organisation Reports and advice from Stakeholder Advisory Group EMF and am not in a position to comment at this time on the preferred route of the Interconnector.

I would appreciate should you require further information on this proposal a sufficient time frame, in which to reply be given, as the current time scale for response was inappropriate.

Yours sincerely

Bronagh Carney  
Acting Principal Environmental Health Officer  
Riverside House  
Tower Hill Complex  
Armagh  
BT61 9EG



21 November 2007

Carey Doyle  
Senior Environmental Scientist  
Faber Maunsell  
1<sup>st</sup> Floor  
24 Linenhall Street  
Belfast  
BT2 8BG

Job No:	654571614
Faber Maunsell-Belfast	
Reviewed by:	AMM AMM
Date:	26 NOV 2007
Action:	AMM
Date:	27/11/07
Copy to:	N/A
Filing Location:	00.600

Dear Mr Doyle

**Proposed Tyrone to Cavan Interconnector – 400 kV Overhead Line and Substation**

I acknowledge receipt of correspondence of 1<sup>st</sup> November 2007 to Mr David Lindsay of Southern Group Environmental Health Committee, regarding proposed Tyrone to Cavan Inter-connector - 400kV Overhead Line and Substation. I note that you say we were consulted previously on behalf of your client NIE on this proposal I can find no evidence of this correspondence and would be grateful if you could forward a copy to me as soon as possible. I am currently commissioning a literature review in respect of Health Protection Agency and World Health Organisation Reports and advice from Stakeholder Advisory Group EMF and am not in a position to comment at this time on the preferred route of the Interconnector.

I would appreciate should you require further information on this proposal a sufficient time frame, in which to reply be given, as the current time scale for response was inappropriate.

Yours sincerely

Bronagh Carney  
Acting Principal Environmental Health Officer  
(Environmental Protection)



**Consultation Responses from the Southern Health & Social Services Board (2009 –  
2006)**

**(In June 2009, the Health and Social Services Boards were reorganised and the Health  
Protection Agency dealt with all subsequent correspondences)**

**Office of the Chief Executive  
Direct Line: 028 37 414600**

13 January 2009

Ms N McNally  
Planning Service Headquarters  
Millennium House  
17-25 Great Victoria Street  
BELFAST BT2 7BN

Dear Ms McNally

**Proposal: PAD for Proposed North-South Electricity Interconnector  
Planning Application Number: O/2008/0822/Q**

Thank you for a copy of the above documentation which the Southern Health and Social Services Board (the Board) received on 5 January 2009.

Unfortunately the Board is unable to meaningfully comment on the application at this stage given the absence of Chapter 7, i.e. 'Electro-Magnetic Field' (EMF). I would ask you to forward this section as soon as possible. I anticipate that the applicant will include reference within this Chapter to recent Health Protection Agency guidance.

To facilitate the Board's appraisal of potential Public Health issues and concerns, I would ask that you forward additional information regarding the specific location of individual private dwellings that will fall within close proximity to the Interconnector route. You will appreciate that it is important that public exposure associated with the proposed Interconnector should not exceed relevant reference levels.

I trust the above is satisfactory.

Yours sincerely

Sean McKeever  
Acting Chief Executive







**Southern Health and Social Services Board**  
**Office of the Chief Executive**  
**Direct Line: 028 37 414600**

21 November 2007

Ms C Doyle  
Senior Environmental Scientist  
Faber Maunsell  
1<sup>st</sup> Floor  
24 Linenhall Street  
BELFAST BT2 8BG

Dear Ms Doyle

Job No:	4545712
Faber Maunsell-Belfast	
Reviewed by:	KD
	MM
Date:	26 NOV 2007
Actioned by:	MM
Date:	27/11/07
Copy to:	letter to HPA
Filing Location:	00600

**Proposed Tyrone to Cavan Interconnector – 400 kV Overhead Line and Substation**

I am writing with regard to your letter of 1 November 2007 in which you seek comment regarding the proposed route that the developers (NIE/ESB) would follow.

You will appreciate that given the short timescale and relatively limited information provided regarding the interconnector, it is not possible to provide a detailed response in terms of any specific element of the proposed scheme.

From a general Public Health perspective there is clearly a need to minimise and ideally remove any risk to individuals. In this respect I would advise that the main issue to be explored is that of proximity to the interconnector route.

As you will be aware there is theoretical evidence which suggests that living in close proximity to high voltage power sources is associated with increased morbidity and potential adverse effects upon human health.

However, although guidance from the Health Protection Agency (HPA), England, identifies the potential increase in risk, the magnitude of effect is likely to be relatively small, i.e. the number of individuals effected, even at a national level, would probably be very small.

INVESTOR IN PEOPLE

Acting Chief Executive: Mr Sean McKeever

Chairwoman: Mrs Fionnuala Cook, OBE

Tower Hill, Armagh BT61 9DR  
Telephone: (028) 3741 0041 Fax: (028) 3741 4550 Textphone: (028) 3741 4530  
www.shssb.org

Nevertheless, HPA guidance highlights the potential need to site high voltage power sources at a 'safe' distance from private dwellings: you may be aware of the 60 metre proposed threshold regarding 400kV sources (i.e. distance from interconnector groundlevel to respective nearby buildings/dwellings).

For further guidance I would advise a review of the following:

[www.rkpartnership.co.uk/sage/Public/SAGE%20first%20interim%20assessment.pdf](http://www.rkpartnership.co.uk/sage/Public/SAGE%20first%20interim%20assessment.pdf)

<http://www.hpa.org.uk/radiation/faq/emf/index.htm>

[http://www.hpa.org.uk/radiation/understand/radiation\\_topics/emf/index.htm](http://www.hpa.org.uk/radiation/understand/radiation_topics/emf/index.htm)

[http://www.hpa.org.uk/radiation/publications/documents\\_of\\_nrpbf/pdfs/doc\\_15\\_3.pdf](http://www.hpa.org.uk/radiation/publications/documents_of_nrpbf/pdfs/doc_15_3.pdf)

[http://www.who.int/peh-emf/publications/elf\\_ehc/en/](http://www.who.int/peh-emf/publications/elf_ehc/en/)

Given the emerging advice outlined above I propose that there may be a duty upon the developers to inform any individual within this specific threshold regarding the proposed interconnector route – there would clearly be a need to provide appropriate and measured public health advice.

In terms of public reassurance and to bring some transparency to the advisory process you may wish to explore the need to seek external national level advice – I would suggest the input of the Health Protection Agency may be of assistance (expertise of this level is unlikely to be available locally within Northern Ireland).

I trust the above information will be of assistance in your appraisal of the interconnector scheme.

Yours sincerely

  
Sean McKeever  
Acting Chief Executive

**Consultation Responses from Spectrum Planning Arqiva (which merged with Cable and Wireless Ltd.) (2009 - 2006)**

09.03.05 Arqiva merge info.txt  
From: Moore, Alan [Alan.Moore@doeni.gov.uk]  
Sent: 09 March 2009 08:09  
To: Doyle, Carey  
Subject: FW: Consultations from Planning Service

Follow Up Flag: Follow up  
Flag Status: Completed

Categories: CD reviewed

Carey, please see below.

Alan Moore

-----Original Message-----

From: Crilly, Yvonne On Behalf Of Planning Service HQ  
Sent: 05 March 2009 15:00  
To: Moore, Alan  
Subject: FW: Consultations from Planning Service

Alan,

Please see attached - for your action.

Thanks

Yvonne

Yvonne Crilly  
Planning Secretariat  
Tel: 028 9041 6980  
email:yvonne.crilly@doeni.gov.uk

-----Original Message-----

From: wind.farms@Arqiva [mailto:wind.farms@arqiva.com]  
Sent: 05 March 2009 14:34  
To: planning.service.hq@nics.gov.uk  
Cc: Fitzsimons, Jack - UK  
Subject: Consultations from Planning Service

Mr A Moor

Ref: o/2008/0822/Q

As you may be aware NGW and Arqiva have now merged under the single name of Arqiva. Jack Fitzsimons has already replied to this consultation and I have no additional comments. From now on you should only receive one reply from Jack or myself.

For the moment, I would be grateful if you could still send paper consultations to both Warwick and Winchester offices. Ideally, we would like to receive consultations electronically to reduce delays and paperwork. We would be pleased to receive documents by email or for you to email us a link to documents on your website if either of these methods is possible.

Any correspondence sent to a new email address wind.farms@arqiva.com <mailto:wind.farms@arqiva.com> will come to both Jack and I for one of us to reply. We would be grateful if you could update your records within your department accordingly.

09.03.05 Arqiva merge info.txt

Regards,

Tim Shergold  
Spectrum Planning  
Arqiva

Direct 01962 822326  
Crawley Court, Winchester, Hampshire SO21 2QA [www.arqiva.com](http://www.arqiva.com)  
<blocked:http://www.arqiva.com>

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Arqiva Limited. Registered office: Crawley Court, Winchester, Hampshire SO21 2QA United Kingdom Registered in England and Wales number 2487597

**McDowell, Julie**

**From:** Timothy Shergold [tim.shergold@arqiva.com]  
**Sent:** 13 July 2006 16:15  
**To:** McDowell, Julie  
**Subject:** Potential overhead Line: Tyrone / Cavan

Hi Julie

**Potential overhead Line: Tyrone / Cavan**

Thank you for providing us with the opportunity to comment on the above proposed developments.

Based on the information that you provided, our analysis shows the proposed developments are unlikely to affect any of our UHF Re-Broadcast feeds and hence we would not wish to object.

Regards,

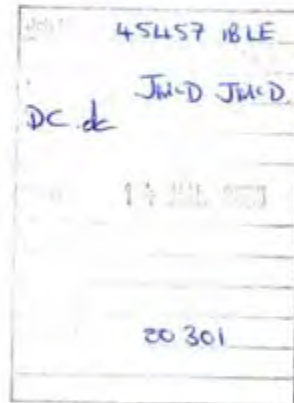
Tim Shergold  
Spectrum Planning Group  
Arqiva

Direct 01962 822326  
Crawley Court, Winchester, Hampshire SO21 2QA

This email is from Arqiva, the new name for NTL Broadcast  
[www.arqiva.com](http://www.arqiva.com)

Arqiva Ltd

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14/07/2006

**Responses from Spectrum Planning National Grid Wireless (2009 to 2006)**



Mrs Carey Doyle  
Senior Environmental Scientist  
Faber Maunsell  
1<sup>st</sup> Floor  
24 Linenhall Street  
Belfast  
BT2 8BG

Job No:	Faber Maunsell-Belfast	
Received by:	CD	CD
Date:	20 NOV 2007	
Action:		
Date:	20 NOV 07	
Copy to:		
Filing Location:		

Peter Hayne MRTPI  
Town and Country Planning Manager

peter.hayne@ngridwireless.com  
Direct tel +44 (0)1698 871012  
Direct fax +44 (0)1698 870923  
Mobile +44 (0)7734272010

[www.nationalgrid.com/wireless](http://www.nationalgrid.com/wireless)

RECORDED DELIVERY

19 November 2007

Our ref: Tyrone Interconnector/NGW/PH

Dear Mrs. Doyle

**NATIONAL GRID WIRELESS**

**SUBJECT: PROPOSED TYRONE TO CAVAN INTERCONNECTOR – 400 KV OVERHEAD LINE AND SUBSTATION**

I refer to the above matter and your letter sent to the BBC on the 1 November 2007.

Your letter has been forwarded to National Grid Wireless (NGW) who currently operates the BBC's UK analogue transmission network. I can advise that due consideration has been given to the details you have provided. We are currently satisfied that there will be no adverse impact on analogue broadcasting transmission by the Tyrone to Cavan interconnector scheme as currently planned.

Additionally, National Grid Wireless also owns and operates the outsourced T-Mobile second generation (2G) mobile phone transmission service in Northern Ireland. This too has been assessed, particularly any impact on critical 'line of sight' transmission links. Assessment has shown that current transmission links should be unaffected by the interconnector and associated overhead pylons based on the details provided.

However, notwithstanding the above, Paragraph C26 of Annex C of PPS10 advises that in the consideration of modern electronic communications:

*"The construction of new buildings or other structures, such as windfarms [or tall electricity pylons as another example], can interfere with broadcast and other telecommunications services, and the possibility of such interference can be a material planning consideration."*

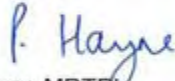
We can appreciate that the final details of the interconnector route may still be fluid and subject to change. Alternatively the size of the overhead pylons and associated apparatus may change. Accordingly we urge that National Grid Wireless is kept fully up to date with any further changes to the interconnector scheme.

Should any subsequent changes be found to threaten current broadcast and radio link networks, we would expect Northern Ireland Electricity to meet all NGW's costs in fully assessing such an event and whether a technical solution can be found to address any issues identified.

This might involve, for example, relocating apparatus, providing a new site or sites for the mobile phone operator and/or re-broadcast links. Should such a scenario occur, we consider that all costs associated with the finding and implementation of an alternative technical solution(s) to address impact on broadcasting or mobile communication links should be fully met by the developer. We would expect this to be secured in the planning process through an appropriately worded Planning Agreement pursuant to Article 40 of The Planning (Northern Ireland) Order 1991 as amended.

I trust this is of assistance. Please do not hesitate to contact me should you require any further explanation.

Yours sincerely



Peter Hayne MRTP  
Town and Country Planning Manager  
National Grid Wireless

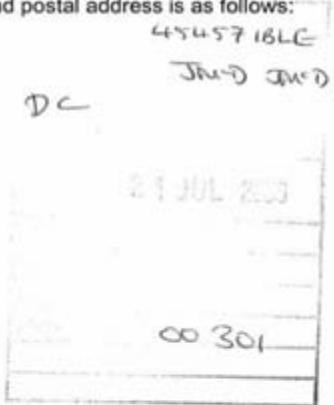
**McDowell, Julie**

**From:** Fitzsimons, Jack - UK [Jack.Fitzsimons@ngridwireless.com]  
**Sent:** 21 July 2006 11:11  
**To:** McDowell, Julie  
**Subject:** Proposed Tyrone/Cavan Interconnector

Hi Julie,

Thanks for the additional information on the interconnector. However I have not received your original letter of 10th July to which you refer. I note that you are still using our old address although mail sent to is getting to us. Perhaps you could update your records. Our new name and postal address is as follows:

Spectrum Planning  
National Grid Wireless  
Wireless House  
Warwick Technology Park  
Heathcote Lane  
WARWICK  
CV34 6DD



Regards,

---

Jack FitzSimons  
Project Engineer, Spectrum Planning  
National Grid Wireless Group  
Email: jack.fitzsimons@ngridwireless.com  
Phone: +44 (0) 1926 416 257  
Fax: +44 (0) 1926 416 275

---

*In line with the change of name to our former Crown Castle UK and Gridcom group company names - we are now collectively trading as National Grid Wireless - my e-mail address is now jack.fitzsimons@ngridwireless.com. Please update your records accordingly.*

**National Grid Wireless Limited registered office: 1-3 Strand, London, WC2N 5EH**

\*\*\*\*\*  
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24/07/2006

**McDowell, Julie**

---

**From:** Fitzsimons, Jack - UK [Jack.Fitzsimons@ngridwireless.com]  
**Sent:** 21 August 2006 10:37  
**To:** McDowell, Julie; planning.service.hq@nics.gov.uk  
**Cc:** tim.shergold@arqiva.com  
**Subject:** Proposed Cavan/Tyrone Interconnector - O/2006/0572

**PROPOSED Cavan/Tyrone Interconnector**

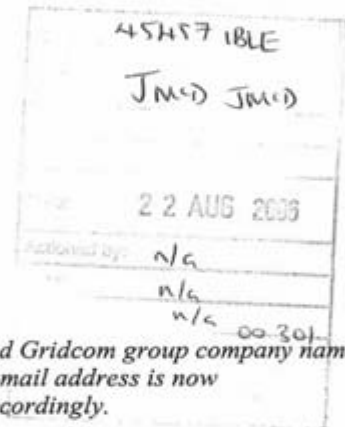
Thank you for your letter referring to the above development. National Grid Wireless is responsible for providing the BBC's transmission network and is responsible for ensuring the integrity of Re-Broadcast Links (RBLs) within particular areas. We have considered whether this development is likely to have an adverse affect on our operations and have concluded that we have no objection to this application.

Regards,

---

Jack FitzSimons  
Project Engineer, Spectrum Planning  
National Grid Wireless Group  
Email: jack.fitzsimons@ngridwireless.com  
Phone: +44 (0) 1926 416 257  
Fax: +44 (0) 1926 416 275

---



*In line with the change of name to our former Crown Castle UK and Gridcom group company names - we are now collectively trading as National Grid Wireless - my e-mail address is now jack.fitzsimons@ngridwireless.com. Please update your records accordingly.*

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21/08/2006

**McDowell, Julie**

**From:** Timothy Shergold [tim.shergold@arqiva.com]  
**Sent:** 13 July 2006 16:15  
**To:** McDowell, Julie  
**Subject:** Potential overhead Line: Tyrone / Cavan

Hi Julie

**Potential overhead Line: Tyrone / Cavan**

Thank you for providing us with the opportunity to comment on the above proposed developments.

Based on the information that you provided, our analysis shows the proposed developments are unlikely to affect any of our UHF Re-Broadcast feeds and hence we would not wish to object.

Regards,

Tim Shergold  
Spectrum Planning Group  
Arqiva

Direct 01962 822326  
Crawley Court, Winchester, Hampshire SO21 2QA

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[www.arqiva.com](http://www.arqiva.com)

Arqiva Ltd

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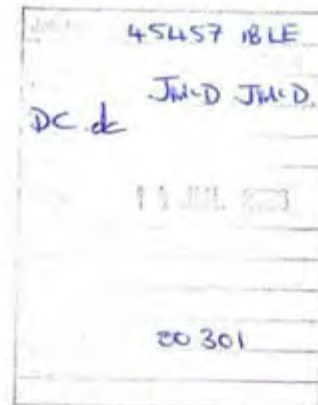
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14/07/2006



45457 RBL 00 301

**McDowell, Julie**

---

**From:** McDowell, Julie  
**Sent:** 22 August 2006 12:59 JMD 22-08-06  
**To:** 'Fitzsimons, Jack - UK'  
**Subject:** RE: Proposed Cavan/Tyrone Interconnector - O/2006/0572

Jack,  
Many thanks for your comments.  
With kind regards,  
Julie

Julie (Ferris) McDowell  
Principal Environmental Scientist

Faber Maunsell Ltd.  
1st Floor  
24 Linenhall Street  
Belfast  
BT2 8BG

T. +44 (0)28 9043 4900  
F. +44 (0)28 9043 4909  
E. julie.mcdowell@fabermaunsell.com  
W. www.fabermaunsell.com

---

**From:** Fitzsimons, Jack - UK [mailto:Jack.Fitzsimons@ngridwireless.com]  
**Sent:** 21 August 2006 10:37  
**To:** McDowell, Julie; planning.service.hq@nics.gov.uk  
**Cc:** tim.shergold@arqiva.com  
**Subject:** Proposed Cavan/Tyrone Interconnector - O/2006/0572

**PROPOSED Cavan/Tyrone Interconnector**

Thank you for your letter referring to the above development. National Grid Wireless is responsible for providing the BBC's transmission network and is responsible for ensuring the integrity of Re-Broadcast Links (RBLs) within particular areas. We have considered whether this development is likely to have an adverse affect on our operations and have concluded that we have no objection to this application.

Regards,

---

Jack FitzSimons  
Project Engineer, Spectrum Planning  
National Grid Wireless Group  
Email: jack.fitzsimons@ngridwireless.com  
Phone: +44 (0) 1926 416 257

22/08/2006

**Consultation Responses from the Sports Council for Northern Ireland (2009 – 2006)**



Date: 14<sup>th</sup> November 2007  
Our Ref: GOV/PS/CGS/Imca  
Your Ref: 45457 IBLE 00 300 07



Ms Carey Doyle  
Senior Environmental Scientist  
Faber Maunsell  
1<sup>st</sup> Floor  
24 Linenhall Street  
Belfast  
BT2 8BG

Job No:	45457IBLE
Faber Maunsell-Belfast	
Reviewed by:	CO D
Date:	15 NOV 2007
Action:	
Date:	
Copy to:	
Filing Location:	

Dear Carey,

**Re: Proposed Tyrone to Cavan Interconnector - 400 kV Overhead Line and Subststion**

We refer to your letter dated 1<sup>st</sup> November 2007 received into the Facilities Unit on 5<sup>th</sup> November 2007.

We have interrogated our GIS based facilities database and according to our records, the proposed line of the services does not oversail any sports pitch facilities in the area. Please note that we cannot comment on the relative distance of the facilities in terms of any best practice clearance zones. See enclosed print.

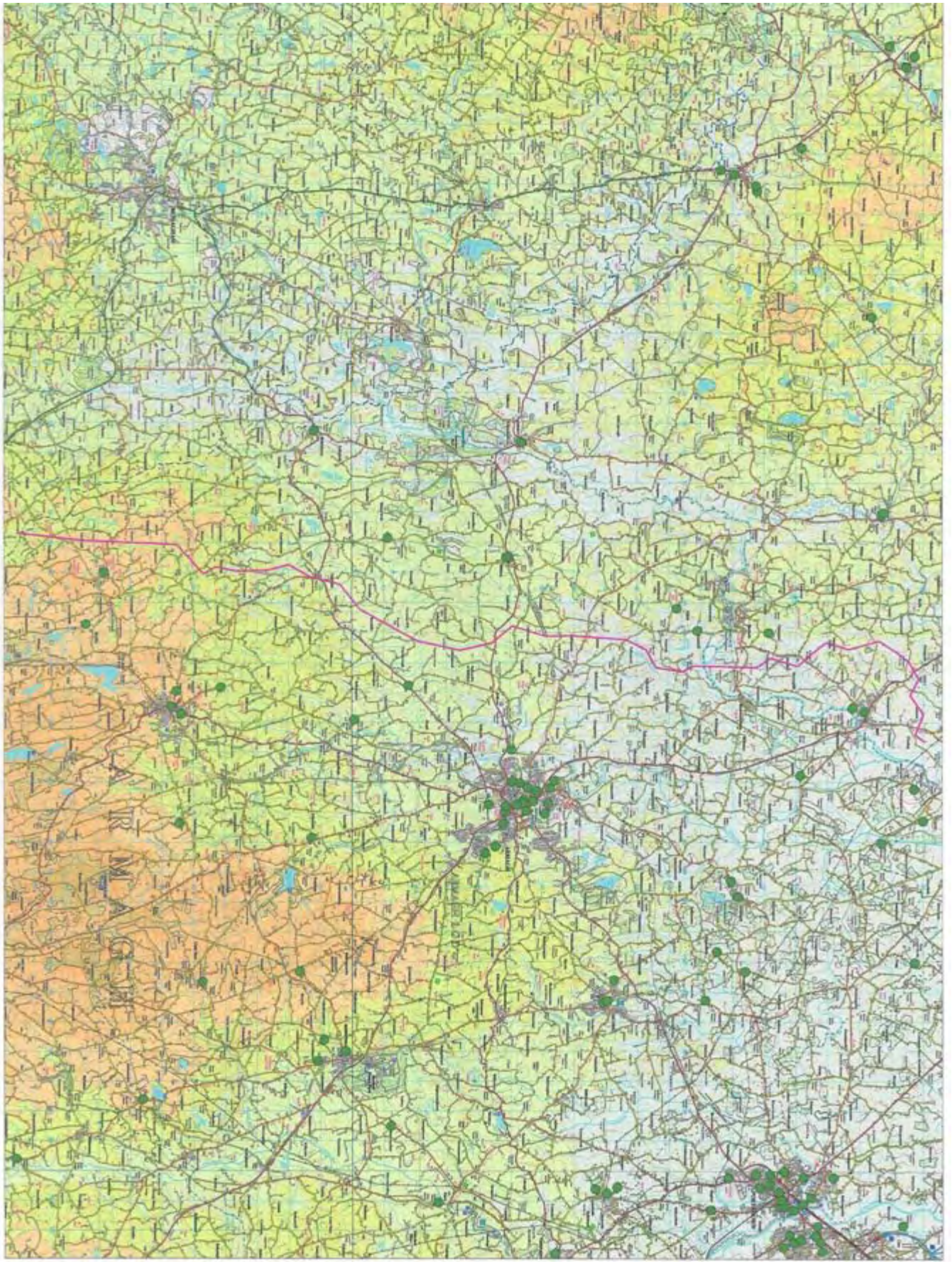
Thank you for consulting with us and good luck with the ongoing project.

Yours sincerely,

Carl Southern RIBA  
Principal Architect + Technical Advisor  
Sport Northern Ireland

Cc: Paul Scott





**Consultation Responses from the Woodland Trust (2009 – 2006)**



**Craig, Amy**

---

**From:** Doyle, Carey  
**Sent:** 21 November 2007 14:28  
**To:** Mackin, Anne-Marie; Sutton, Brian  
**Subject:** FW: Proposed Tyrone/Cavan Interconnector  
  
**Importance:** High

---

**From:** Rosanna Ballentine [mailto:RosannaBallentine@woodland-trust.org.uk]  
**Sent:** 21 November 2007 14:17  
**To:** Doyle, Carey  
**Cc:** Patrick Cregg  
**Subject:** Proposed Tyrone/Cavan Interconnector  
**Importance:** High

Dear Carey

Thank you for your letter of 1 November to Patrick Cregg, seeking a response for the Environmental Statement.

The Ancient Woodland Inventory of Northern Ireland, completed by the Woodland Trust earlier this year, has identified ancient or long-established woodland in three areas along the route of the proposed interconnector. The Trust seeks the protection and buffering of such woodland.

You can access information on the 3 sites via our website [www.backonthemap.org.uk](http://www.backonthemap.org.uk). You can register as a user to obtain fuller information on these sites 1823, 1388 and 1389. Do let me know if you need further assistance.

I can also send species lists from our database, as the sites have been surveyed over the last few years.

Kind regards

Rosanna Ballentine  
**Events & Communications Officer**  
The Woodland Trust, 1 Dufferin Court, Dufferin Avenue, Bangor BT20 3BX  
Telephone 028 9127 5787  
Mobile 07979 304703  
Email [rosannaballentine@woodland-trust.org.uk](mailto:rosannaballentine@woodland-trust.org.uk)  
[www.woodland-trust.org.uk](http://www.woodland-trust.org.uk)  
[www.treeforall.org.uk](http://www.treeforall.org.uk)

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Registered in England No. 1982873 Registered Office: Autumn Park, Dysart Road, Grantham, Lincs. NG31 6LL.  
<http://www.woodland-trust.org.uk>

**Consultation Responses from the Ulster Farmers Union (2009 – 2006)**

**21/11/07**

**Ref: 45457 IBLE 00 300 07**

To whom it may concern.

We The Ulster Farmers' Union (UFU) have a number of members affected by the preferred route for the proposed Tyrone/Cavan Interconnector Overhead line.

We are concerned that insufficient consideration has been given to siting these towers near/at field boundaries as a means of minimising the impact on operational farming activities.

More specifically our member Mr B McLean has a number of issues that I would draw to your attention:

1. B McLean, 95 Majors Lane, Drumavey, Moy
2. Proposed line may be <20mts from site, 45mts south of premises at 39 Majors lane (full Planning permission granted)
3. With point '2' in mind a route north of 95 Majors Lane should be considered.
4. If this 400kV line is erected overhead/near this location the site value may be reduced to zero and full consequential loss sought from promoters.
5. It appears to me that the minimum 60mts distance form nearest house/premises can not be met at the intersection of Major's lane with current preferred route.

Additionally I would be interested to be updated on the number of other 400kV Overhead lines elsewhere in Northern Ireland and of operation experiences.

Yours faithfully

Robert Cochrane  
UFU Technical Officer

**Consultation Responses from the Ulster Flying Club (2009 – 2006)**

# Telephone Record

Call To:	Carey Doyle	Date:	05 November 2007
Taken by:	Carey Doyle	Time:	11:30 AM
Subject:	NS Interconnector Consultations	Job No/Ref:	45457 IBLE

Project Title:	NS Interconnector		
Call From:	Terry Bounce, Newtownards Flying Club	Telephone No	

Message:

Phone call in response to Consultation Letter from Terry Bounce, an officer with the Newtownards Flying Club.

The proposed development will not directly conflict with the Newtownards airport. He suggested we contact the CAA, and to be sure that the proposed development, if built, is marked on the CAA maps. I assured him we already had contacted the CAA.

<b>Message read by Project Manager</b> <small>(Sign here only if not the originator of the Message)</small>		Date:	5 Nov 07
--	--	-------	----------

<b>File:</b> Treat as correspondence
--------------------------------------

**Planning Application Responses 2010**



AECOM  
24 Linenhall Street, Belfast , BT2 8BG  
T +44 (0)28 9060 7200 F +44 (0)28 9060 7399 www.aecom.com

Andrew McIntosh

NIEA  
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Gasworks Business Park  
Cromac Avenue  
Belfast  
BT7 2JA

10<sup>th</sup> August 2009

04 AUG 2009

Our Ref: Tyrone to Cavan Interconnector (60032220)

Dear Andrew;

**Subject: Bat Survey Methodology**

Further to our recent e-mail correspondence and discussions cumulating in our June 10<sup>th</sup> meeting at AECOM's Belfast Office. I have outlined the following methodology which best fulfils the agreed requirements. NIE have requested that I get final agreement from NIEA on the methodology before completing any more work on the project. Please can you read through the following paragraphs and confirm that this accurately represents what we have previously agreed. Should you have any comments please do not hesitate to contact me with same.

The following methodology is based on the discussions between NIE, NIEA and AECOM during a meeting on the 10<sup>th</sup> June 2009 at AECOM's Belfast Office. It was agreed that the aim of the 2009 surveys is to search for potential roosts within hedgerows and trees along the line route which are directly impacted upon by the proposed route and that surveys to identify important flightlines could be conducted during (May to Sept) 2010 to supplement the 2009 survey. The overall aim of the survey is to gather sufficient data on bat activity along the line route during 2009 & 2010 to allow NIEA to comment upon the potential impact of the proposed development on the local bat population.

**Methodology**

It was agreed that the first step should be to identify all sites along the line route potentially useful to bats for commuting, foraging, roosting, hibernating or as advertising posts. This was to be achieved by reviewing aerial photographs and the phase 1 habitat survey completed for the ES. This desktop analysis along with local knowledge could be used to identify features potentially significant to the local bat population which are likely to be impacted by the proposed line route. These are likely to include the following;

- hedgerows with mature trees;

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- riparian corridors;
- areas of semi-natural habitats (fens, bogs, woodland etc);
- individual mature standard trees and,
- Orchards.

Once the desktop review is complete a daytime assessment at each location will be conducted to assess the potential for roosting bats to be present in any mature trees. This daytime assessment will look for, dead/damaged limbs, scratch marks, urine stains, droppings etc on any mature trees. This will also help to familiarise surveyors with individual sites which will require follow up crepuscular surveys using time expansion bat detectors and night vision equipment. It was further agreed that hedges unlikely to harbour bat roosts (i.e. those without mature standard trees, monoculture hedges and those structurally modified by flailing/cutting) do not require a bat roost survey, but will require the identification of bat flightlines (commuting roosts) between roosts and foraging areas. NIEA agreed that flightline surveys could be postponed until the 2010 survey season to allow the most significant areas to be prioritised for survey during 2009. All surveys are to take place during appropriate weather conditions, avoiding cold, wet and windy nights when insect prey is likely to be scarce.

No buildings, bridges or other structures are currently impacted upon by the proposed line route and will not therefore require survey unless it becomes necessary to follow large numbers of commuting bats over a period of nights to locate a specific significant roost.

Recordings from all surveys will be analysed using batsound software to ascertain the species involved (where possible) and provide an index of bat activity at each location. The raw data will be used to determine "bat passes" per unit time for each recognisable species. A "bat pass" can be defined as a sequence of two or more echolocation calls registered as a bat passes within range of the detector. This method will permit a comparison of activity levels among the various sites but it will not be possible to estimate absolute numbers of bats present. This will only be possible should a roost be located during survey work. This is because detectors cannot differentiate between several passes by the same bat and a single pass by several bats. There is no simple correlation between passes and the number of bats present. Nor is any means currently known for evaluating this relation to provide population density data.

All potentially significant sites will be subject to two full dawn and dusk survey visits by an ecologist. These surveys will look for the presence of roosts, advertising posts, foraging areas and assess the presence of any established flight paths. The approximate height of flying bats will be estimated if possible and the number and species determined should a roost be recorded. The presence of roost will also trigger further consultation with NIEA.

The information from each survey location will be presented in a written report, including maps, at 1:2500 scale. The exact location of any roosts, advertising posts, swarming activity and foraging movements will be shown (for each of the activities/signs recorded during field survey).

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The habitat present, date and time of survey including a record of the weather conditions at the time of survey will also be included.

Finally the completed bat report (or addendum to the ES) will aim to evaluate the potential impact of the scheme on the local bat population and recommend appropriate ways in which bats can be protected during the construction and operational phase of the proposed development.

We thank you for the opportunity to continue to work with you on this project and I look forward to your response.

Yours sincerely



Cormac Loughran  
Senior Ecologist  
T +44 (0)28 9060 7204  
F +44 (0)28 9060 7399  
E cormac.loughran@aecom.com



McIntosh, Andrew

---

**From:** Loughran, Cormac [cormac.loughran@aecom.com]  
**Sent:** 21 May 2009 15:27  
**To:** McIntosh, Andrew  
**Cc:** McDowell, Julie; Sutton, Brian; McDowell, Julie; Maguire, Mary K; Doyle, Carey  
**Subject:** North South Interconnector  
**Attachments:** NS Bat Survey - NIEA\_v3.doc

Andrew,

Thanks for your help yesterday. As you recommended I have put together a brief methodology for discussion (see attached), which is specifically tailored to a linear electricity line development. Please have a read and let me know what you think. I am available anytime should you or Sandra wish to develop this further or query any issues.

I look forward to your response.

Kind regards

Cormac <<NS Bat Survey - NIEA\_v3.doc>>

**Cormac Loughran**  
Senior Ecologist, Water and Environment  
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[cormac.loughran@aecom.com](mailto:cormac.loughran@aecom.com)

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Please note: My e-mail has changed to [cormac.loughran@aecom.com](mailto:cormac.loughran@aecom.com). Please update your address books accordingly.

**Faber Maunsell is now AECOM:** Faber Maunsell's parent company, AECOM, is integrating its business lines and regions around the globe into a single entity giving clients access to over 43,000 employees operating in over 100 countries. As part of this integration, Faber Maunsell has changed its name to AECOM but the professionals who serve you, our focus on quality service and products, and our commitment to our employees remain unchanged. To find out more, visit [www.aecom.com](http://www.aecom.com)

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02/09/2009

## BAT SURVEY – NORTH SOUTH INTERCONNECTOR (NIE)

The Northern Ireland section of the proposed North South electricity interconnector is approximately 35kms in length. The general guidance received from NIEA entitled Bat Survey -General Requirements (Jan 2009) while thorough and comprehensive is not tailored specifically to a linear development of this nature. It is an all encompassing methodology arguably more applicable to an individual site, such as a new housing development or similar project.

These general requirements if applied to a 35km overhead transmission line would be inefficient and could potentially take a number of seasons to complete for a project of this size & scale with limited associated benefits. In addition, the outputs required by the NIEA guidance, such as the requirement for 'approximate numbers of bats' is likely to prove all but impossible to obtain in this case using currently established technologies and bat survey techniques.

Therefore we propose the following modified methodology for discussion and approval with NIEA. The aim of the methodology is to gather sufficient data during the 2009 season on the 35km line route to allow NIEA to comment upon the potential impact of the proposed development on the local bat population while at the same time taking cognisance of the linear nature of this project. It suggests an approach that aims to optimise the resources utilised and the data collected for the 2009 Survey period.

Deleted: 1

#### Methodology

Existing phase 1 habitat survey maps (recently completed during 2007-8) and aerial photographs (provided by NIE) will be analysed to identify features of interest for bats (provisionally estimated at 50 locations) currently bisected by the proposed line route. These will include;

- hedgerows with mature trees;
- riparian corridors;
- areas of semi-natural habitats (fens, bogs, woodland etc);
- individual mature standard trees and,
- orchards.

Monoculture hedges (without mature standard trees) and those structurally modified by flailing/cutting will not be surveyed unless high levels of bat activity are recorded nearby (i.e. adjacent to woodland). No buildings, bridges or other structures are currently impacted upon by the proposed line route and will not be surveyed unless high levels of bat activity indicate the presence of an active roost in a nearby structure.

Once the locations have been identified (and agreed) it is proposed to monitor bat activity remotely. This will be done using a series of frequency division detectors (Bat Batons) attached to a digital audio recorder (8.5 hours recording time) left in situ overnight. This will allow for one full nights activity at each location and will include the important crepuscular period (dawn and dusk). Survey will only take place during appropriate weather conditions, avoiding cold, wet and windy nights when insect prey is likely to be scarce.

Recordings will be analysed using batscan software to ascertain the species involved (where possible) and provide an index of bat activity at each location. The raw data will be used to determine "bat passes" per unit time for each recognisable species. A "bat pass" can be defined as a sequence of two or more echolocation calls registered as a bat passes within range of the detector. This method will permit a comparison of activity levels among the various sites but it will not be possible to estimate absolute numbers of bats present. This will only be possible should a roost be located during survey work. This is because detectors cannot differentiate between several passes by the same bat and a single pass by several bats. There is no simple correlation between passes and the number of bats present. Nor is any means currently known for evaluating this relation to provide population density data.

Sites shown to have significant numbers of bat passes or a high level of bat species diversity (as discernible from remote recordings) will be followed up with a dusk visit by an ecologist, and further investigations will take place. These physical surveys will look for the presence of roosts, advertising posts, foraging areas and assess the presence of any established flight paths. The approximate height of flying bats will be estimated if possible and the number and species determined should a roost be recorded. The presence of roost will also trigger further consultation with NIEA.

The information from each survey location (whether remote or in person) will be presented in a written report, including maps, at 1:2500 scale. The exact location of any roosts, advertising posts, swarming activity and foraging movements will be shown (for each of the activities/signs recorded during field survey). The date and time of remote surveys including a record of the weather conditions at the time of survey will also be included.

Finally the completed bat report (or addendum) will aim to evaluate the potential impact of the scheme on the local bat population and recommend appropriate ways in which bats can be protected during the construction and operational phase of the proposed development.





Date: 2nd March 2010  
Your Ref:  
Our Ref: O/2009/0792/F  
(Please quote at all times)

Sinead McInerney  
An Bord Pleanála  
64 Marlborough Street  
Dublin 1

### Headquarters

Millennium House  
17-25 Great Victoria Street  
Belfast  
BT2 7BN

Please contact: Mr A Moore  
Direct Line: 028 90416886

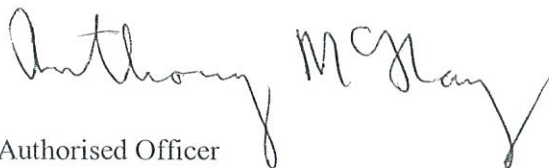
Dear Madam

**RE: Transboundary state consultation in respect of the potential environmental effects of Meath – Tyrone 400kv interconnector.**

I refer to your letter dated 26<sup>th</sup> January 2010 regarding the above and would confirm that DOENI Planning Service HQ would wish to take part in the decision making procedures in relation to the proposed development.

I would be grateful if you could furnish Planning Service HQ with one hard copy of the environmental impact statement and 6 additional copies in CD format for consultation purposes.

Yours sincerely

  
Anthony McGowan  
Authorised Officer



File Copy,



Date: 2nd March 2010  
Your Ref:  
Our Ref: O/2009/0792/F  
(Please quote at all times)

Sinead McNerney  
An Bord Pleanála  
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### Headquarters

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BT2 7BN

Please contact: Mr A Moore  
Direct Line: 028 90416886

Dear Madam

**RE: Transboundary state consultation in respect of the potential environmental effects of Meath – Tyrone 400kv interconnector.**

Thank you for your letter dated 26<sup>th</sup> January 2010 regarding the above proposal. This matter is now receiving attention.

Yours sincerely

*Chris Coyle*

for Planning Service HQ





Our Ref:

02.VA0006

Mr. Anthony McKay,  
NIPS Special Studies Unit,  
Millennium House,  
17-25 Great Victoria Street,  
Belfast,  
BT2 7BN,  
Northern Ireland.

28 JAN 2010

26<sup>th</sup> January, 2010

**Re: TRANSBOUNDARY STATE CONSULTATION IN  
RESPECT OF THE POTENTIAL  
ENVIRONMENTAL EFFECTS OF MEATH -  
TYRONE 400 KV INTERCONNECTOR.**

Dear Sir,

An Bord Pleanála has received an application for approval under section 182A of the Planning and Development Act 2000, as amended, from EirGrid plc for the above-mentioned proposed development.

The Board is of the opinion that the proposed development to which the application for approval relates would be likely to have significant effects on the environment in a transboundary State – Northern Ireland.

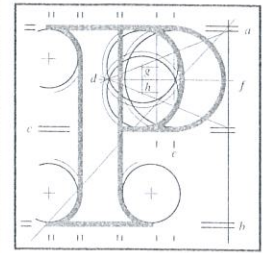
The Board notified the Minister for the Department of Environment, Heritage and Local Government in the Republic of Ireland regarding the above-mentioned application for approval. (Copy of correspondence attached as Appendix A).

The Board is now initiating contact with you to enter into consultations in accordance with Article 126 of the Planning and Development Regulations, 2006.

In this regard, please note the following details of the application.

- (a) **Description of proposed development:** Meath – Tyrone 400 kV Interconnector. (Please see full description, attached at Appendix B).
- (b) An environmental impact statement has been submitted with the application.

An Bord Pleanála



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Dublin 1.

- (c) An Bord Pleanála is the competent authority responsible for taking the decision.
- (d) The Board may in respect of an application for approval decide to:
- (i) Approve the proposed development.
  - (ii) Make modifications to the proposed development.
  - (iii) Approve in part only the proposed development (with or without modifications).
  - (iv) Refuse to approve the proposed development.
- (e) A decision will not be taken by the Board until the views if any, of the transboundary state has been received or the consultations are otherwise completed.
- (f) Please indicate to the Board if you wish to take part in the decision making procedures in relation to the proposed development.
- (g) If it is your intention to take part in the decision making procedures, the Board will furnish you with a copy of the environmental impact statement and any other relevant information.

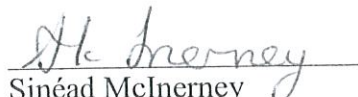
Your response to this notice should be received **on or before 5.30 p.m. on Friday the 12<sup>th</sup> of March, 2010.**

I would be grateful if you would acknowledge receipt of this letter.

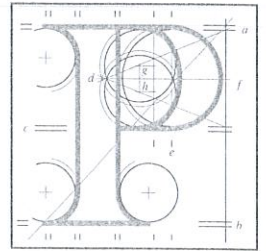
If you have any queries in relation to the matter please contact the undersigned officer of the Board.

Please quote the above-mentioned An Bord Pleanála reference number in any correspondence or telephone contact with the Board.

Yours faithfully,

  
Sinéad McInerney  
Executive Officer

## An Bord Pleanála



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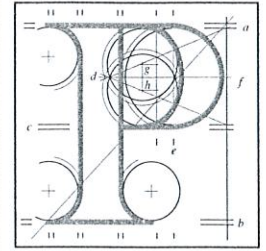
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## Appendix B

- (1) Addition to substation equipment and an associated extension of the compound of the existing ESB Woodland substation, Co. Meath, primarily to include: construction of a new lattice steel gantry (31 m in height), and associated development including cable sealing ends, surge arresters and 250m length of 400 kV underground cable. The proposal also includes a western extension of the existing substation compound of approximately 0.7 hectares, requiring associated modifications to the existing perimeter fence of the substation, and associated site development works;
- (2) The addition of a new 400 kV circuit for some 2.8 km along the currently unused (northern) side of the existing double circuit 400 kV overhead transmission line extending westwards from Woodland substation to a point near the townland boundaries of Bogganstown and Curraghtown in Co. Meath;
- (3) The provision of a new single circuit 400 kV overhead transmission line and associated structures (including supporting towers ranging in height from 29 – 44 m), of some 55 km length, extending generally northwards from its interface with the existing double circuit line identified at (2) above, to a proposed 400 kV double circuit tower in the townland of Clonturkan, Co. Cavan;
- (4) A new 400 kV substation at Moyhill, Co. Meath. The overall site of the new substation, including lands for perimeter screening etc. is some 16.8 hectares. Two options for substation design are proposed in this application, as a final decision regarding the preferred option can only reasonably be made post-Approval, when tender contracts are confirmed. These options are: (a) an Air Insulated Switchgear (AIS) option, where electricity infrastructure is primarily sited externally, including control buildings (totalling 465 sq m, with a maximum height of 5 m), and associated electrical equipment and structures (with a maximum height of 29 m), set within a compound of approximately 5.3 ha. This option requires the demolition of an existing habitable house on the site. (b) a Gas Insulated Switchgear (GIS) option, where the electricity infrastructure is primarily sited internally, requiring a 220 kV switchgear/control building (totaling 677 sq m, with a maximum height of 11 m), a 400 kV switchgear/control building (totaling 519 sq.m. with a maximum height of 13 m) and associated electrical equipment and structures (with a maximum height of 27 m), set within a compound of approximately 1 ha. Both options require the provision of a proposed new vehicular access point onto the L-28043-1 road, and a new internal access road;
- (5) Diversion of the existing 220 kV Flagford – Louth overhead transmission line by means of a new double circuit 220 kV overhead transmission line, and associated structures, into the proposed new Moyhill 400 kV

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substation, County Meath. The proposed diverted line (with associated towers ranging in height from 21 – 55 m), will be 2.3 km long and will run from a point at the townland of Carrowreagh, Co. Cavan;

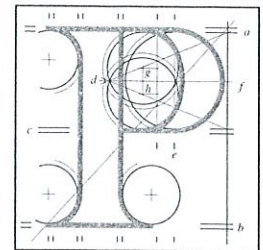
- (6) A new double circuit 400 kV overhead transmission line (approximately 1.4 km) and associated structures (ranging in height from 24 – 68 m) extending northwards from the new substation at Moyhill, Co. Meath to connect with the new 400 kV single circuit transmission line in the townland of Clonturkan Co. Cavan (as per (3) above);
- (7) The new single circuit 400 kV overhead transmission line and associated structures (ranging in height from 21 – 37 m) will extend generally northwards for a further approximately 46 km from the townland of Clonturkan County Cavan (as per (3) and (6) above) to a point where the line intersects with the jurisdictional border with Northern Ireland at the townlands of Lemgare/Coolartragh, Co. Monaghan.

The proposed 400 kV single circuit transmission line traverses the jurisdictional border with Northern Ireland at the townland of Lemgare, Co. Monaghan and extends to a proposed new substation at Turleenan, Co. Tyrone. This proposed element is the subject of a concurrent application by Northern Ireland Electricity (NIE) to the competent authority of Northern Ireland.

It is proposed to construct the new transmission line and associated structures within a corridor with a maximum width of 80 m. The proposal includes for all associated construction, site development and landscaping works.

The proposed development runs through the Gaeltacht townlands of Cluain an Ghaill (Clongill), Baile Órthaí (Oristown), Diméin Bhaile Ghib (Gibstown Demense) and Teltown (Taltin).

## An Bord Pleanála



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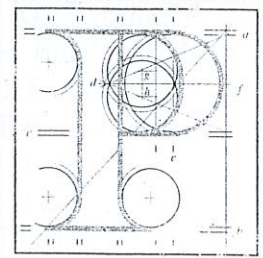
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Dublin 1.



Our Ref:

02.VA0006

An Bord Pleanála



The Minister for Environment, Heritage and Local Government,  
 c/o Mr. Paul McMahon,  
 Department of Environment, Heritage and Local Government,  
 Development Applications Unit,  
 Dún Scéine,  
 Harcourt Lane,  
 Dublin 2.

26<sup>th</sup> January, 2010

**Re: TRANSBOUNDARY STATE CONSULTATION IN  
 RESPECT OF THE POTENTIAL ENVIRONMENTAL  
 EFFECTS OF MEATH - TYRONE 400 KV  
 INTERCONNECTOR.**

Dear Sir,

An Bord Pleanála has received an application for approval under section 182A of the Planning and Development Act 2000, as amended, from EirGrid plc for the above-mentioned proposed development.

The Board is of the opinion that the proposed development to which the application for approval relates would be likely to have significant effects on the environment in a transboundary State – Northern Ireland.

In accordance with article 124 of the Planning and Development Regulations, 2006, the Board hereby notifies you of this application for approval. Please note the following details of the application.

**Names of Local Authorities:** Cavan County Council, Monaghan County Council and Meath County Council.

**Location of land to which application relates:**

**County Meath** – Townlands of Woodland, Creemore, Hayestown, Curraghtown, Boggantown, Curraghtown, Woodtown (ED Culmullin), Woodland, Creemore, Hayestown, Curraghtown, Boggantown, Culmullin, Derrypatrick, Martinstown (ED Galtrim), Galtrim, Boycetown, Branganstown, Walterstown (ED Galtrim), Crumpstown or Marshallstown (ED Galtrim), Ardbrackan or Wrightown, Creroge, Finlaghtown Little, Knockstown (ED Kilmessan), Trubley, Rathnally, Dunganny, Balbrigh, Dunlough, Rataine, Philpotstown (ED Clonmacduff), Churchtown, Halltown, Irishtown (ED Ardbraccan), Ongenstown, Betaghstown (ED Ardbraccan), Neillstown (Ardbraccan), Durhamstown, Grange (ED Ardbraccan), Tankardstown (ED Ardbraccan), Castlemartin, Teltown, Gibstown Demense, Oristown (ED



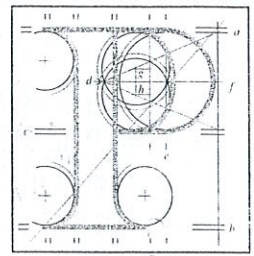
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Teltown), Clongill, Fletcherstown, Dowdstown (ED Castletown), Mountainstown, Drakerath, Clooney, Raffin, Rahood, Moynagh, Brittas, Altmush (ED Cruicetown), Cruicetown, (ED Cruicetown), Boynagh (ED Kilmainham), Eden, Towas, Shancor, Aghamore, Lislea, Tullyweel, Moorlagh, Moyhill; and the following townlands in **County Cavan** – Drumbar (ED Enniskeen), Balloughly, Clonturkan, Carrowreagh, Corraneary (ED Enniskeen), Laragh, Cordoagh (ED Enniskeen), Leiter (ED Enniskeen), Corrycholman, Dingin, Collops, Corglass (ED Enniskeen), Cornamagh, Corlea (Clankee By), Drumiller and Lisagoan; and the following townlands in **County Monaghan** - Scalkill, Ballaghnamearn, Corlea (ED Magheracloone), Greaghlonge, Doagh, Cornlaragh, Raferagh, Corvally (Farney By), Ardragh, Sreenty, Ummerafree, Corrinenty, Cornasassonagh, Tullyglass, Tooa, Drumillard (Cremorne By), Aghmakerr, Boraghý, Brackly (Cremore By), Cooltrimegish, Tullynahinnera, Greagh (Cremorne By), Drumhawan, Drumguillew Lower, Clogher, Crinkill, Cornamucklagh South, Terrygreeghan, Rausker, Cornanure (Monaghan By), Cargagheramer, Drumroosk, Lennan, Derryhallagh (Monaghan By), Clarderry, Cornamucklagh North, Annagh (Cremore By), Carrickanure, Cashel, Tassan, Latnakelly, Annaglogh, Lisdrumgormly, Lemgare and Coolartragh.

An Bord Pleanála



**Proposed Development:** Meath – Tyrone 400 kV Interconnector. (Please see full description attached at Appendix A).

**Date of receipt of application:** 18<sup>th</sup> December 2009.

I would like to bring to your attention that Article 124(3) of the Planning and Development Regulations, 2006, requires the Minister to consult with the Board in relation to the proposed development.

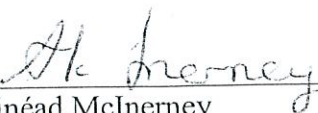
Any response to this notice should be received **on or before 5.30 p.m. on Friday the 12<sup>th</sup> of March, 2010.**

A copy of the environmental impact statement in CD format is enclosed for your information.

If you have any queries in relation to the matter please contact the undersigned officer of the Board.

Please quote the above-mentioned An Bord Pleanála reference number in any correspondence or telephone contact with the Board.

Yours faithfully,

  
Sinéad McInerney  
Executive Officer



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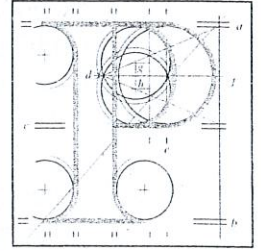
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## Appendix A

- (1) Addition to substation equipment and an associated extension of the compound of the existing ESB Woodland substation, Co. Meath, primarily to include: construction of a new lattice steel gantry (31 m in height), and associated development including cable sealing ends, surge arresters and 250m length of 400 kV underground cable. The proposal also includes a western extension of the existing substation compound of approximately 0.7 hectares, requiring associated modifications to the existing perimeter fence of the substation, and associated site development works;
- (2) The addition of a new 400 kV circuit for some 2.8 km along the currently unused (northern) side of the existing double circuit 400 kV overhead transmission line extending westwards from Woodland substation to a point near the townland boundaries of Bogganstown and Curraghtown in Co. Meath;
- (3) The provision of a new single circuit 400 kV overhead transmission line and associated structures (including supporting towers ranging in height from 29 – 44 m), of some 55 km length, extending generally northwards from its interface with the existing double circuit line identified at (2) above, to a proposed 400 kV double circuit tower in the townland of Clonturkan, Co. Cavan;
- (4) A new 400 kV substation at Moyhill, Co. Meath. The overall site of the new substation, including lands for perimeter screening etc. is some 16.8 hectares. Two options for substation design are proposed in this application, as a final decision regarding the preferred option can only reasonably be made post-Approval, when tender contracts are confirmed. These options are: (a) an Air Insulated Switchgear (AIS) option, where electricity infrastructure is primarily sited externally, including control buildings (totalling 465 sq m, with a maximum height of 5 m), and associated electrical equipment and structures (with a maximum height of 29 m), set within a compound of approximately 5.3 ha. This option requires the demolition of an existing habitable house on the site. (b) a Gas Insulated Switchgear (GIS) option, where the electricity infrastructure is primarily sited internally, requiring a 220 kV switchgear/control building (totalling 677 sq m, with a maximum height of 11 m), a 400 kV switchgear/control building (totalling 519 sq.m. with a maximum height of 13 m) and associated electrical equipment and structures (with a maximum height of 27 m), set within a compound of approximately 1 ha. Both options require the provision of a proposed new vehicular access point onto the L-28043-1 road, and a new internal access road;
- (5) Diversion of the existing 220 kV Flagford – Louth overhead transmission line by means of a new double circuit 220 kV overhead transmission line, and associated structures, into the proposed new Moyhill 400 kV substation, County Meath. The proposed diverted line (with associated towers ranging in height from 21 – 55 m), will be 2.3 km long and will run from a point at the townland of Carrowreagh, Co. Cavan;

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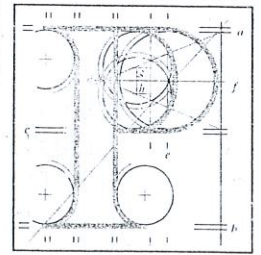
- (6) A new double circuit 400 kV overhead transmission line (approximately 1.4 km) and associated structures (ranging in height from 24 – 68 m) extending northwards from the new substation at Moyhill, Co. Meath to connect with the new 400 kV single circuit transmission line in the townland of Clonturkan Co. Cavan (as per (3) above);
- (7) The new single circuit 400 kV overhead transmission line and associated structures (ranging in height from 21 – 37 m) will extend generally northwards for a further approximately 46 km from the townland of Clonturkan County Cavan (as per (3) and (6) above) to a point where the line intersects with the jurisdictional border with Northern Ireland at the townlands of Lemgare/Coolartragh, Co. Monaghan.

The proposed 400 kV single circuit transmission line traverses the jurisdictional border with Northern Ireland at the townland of Lemgare, Co. Monaghan and extends to a proposed new substation at Turleenan, Co. Tyrone. This proposed element is the subject of a concurrent application by Northern Ireland Electricity (NIE) to the competent authority of Northern Ireland.

It is proposed to construct the new transmission line and associated structures within a corridor with a maximum width of 80 m. The proposal includes for all associated construction, site development and landscaping works.

The proposed development runs through the Gaeltacht townlands of Cluain an Ghail (Clongill), Baile Órthaí (Oristown), Diméin Bhaile Ghib (Gibstown Demense) and Teltown (Tailtin).

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Headquarters 3

## North South Interconnector

Response by

Dungannon & South Tyrone Borough & Armagh City & District  
Councils

February 2010

Job No:	60032220
AECOM - Belfast	
Reviewed by:	(D) (D)
Date:	12 MAR 2010
Actioned by:	(D)
Date:	12 3 10
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### References

## Introduction

Following a request by Armagh City & District Council and Dungannon & South Tyrone Borough Council (to be referred to as Council(s)) to the Northern Ireland Environment Committee to comment on the Tyrone Cavan Interconnector proposal, and as a statutory consultee to planning in NI, Council(s) would like the views below to be given serious consideration.

Council(s) would like to state that they are not opposed to North South Interconnection but are opposed to overhead provision. Council(s) would also call for an Article 31 Inquiry on the application and seek an assurance that this major application would not be fast tracked, but would follow due process.

At the outset Council(s) would like to confirm its support to its local residents and to community representative group SEAT (Safe Electricity Armagh Tyrone) who have and continue to have valid concerns regarding this application which has been contributed to by the level and detail of the information that has been provided to date.

As part of the Council(s) response it will provide information to support its opposition to the Interconnector in its current form, focusing on the following;

- Consultation & Information, the Council(s) will highlight its concerns regarding the disregard shown to it as a statutory consultee by the applicant. It will also raise its concerns regarding the inadequate level of information that has been provided to support the application, from economic analysis of needs and options to the research used in the EIS.
- Health, Safety and Wellbeing, the Council(s) would like to note that it will present their serious concerns regarding the associated health and safety implications of this proposal to the local people living in the vicinity of this proposed power line. This information is provided as part of planning legislation to and as part of legislation to provide safe electricity under the Electricity NI Order 1992.



- Environment, the Council(s) will present their concerns with regard to the inadequate level of consideration given to this geographic area as one of Scenic Quality as stipulated within the Regional Development Strategy, the areas of special conservation interest SCLNI along the proposed route that have not been sufficiently considered, and the rich biodiversity that has been underestimated and under reported; similarly with the archaeological sites and status, and the importance of its rural character.
- Technology, the Council(s) question the level of technological advancement being shown by NIE as the main electrical provider for Northern Ireland, particularly in light of the electricity provision legislation and what is being proposed in other parts of Europe.
- Economy and Tourism, Council(s) are deeply concerned regarding the stifling of economic development and negative impact that this proposal, in its current form, will have on economic development in the area and tourism, particularly rural tourism and activity based tourism.
- Agriculture, Council(s) do not believe that consideration has been shown to the impact that this proposal in its current form would have on agriculture and would like the French case of law reference provided later in the report noted for serious consideration.
- Community and Social, the Council(s) feel that there has been little to no concern shown to the importance of community and social life for the people in the proposed development area.

### **Comments**

Council(s) would like to make the following comments on the Planning Application No. O/2009/0792/F for Tyrone-Cavan Interconnector in the Name of NIE plc.

## 1. Consultation and Information

The Council(s) would like to raise their reservations regarding the process of this proposed power line and application. Members are aware of discussion of such a proposal since 2004/05 and have referenced a number of supporting public documents relating to this time. However they have serious concerns that this strategic proposal which would involve forward planning was not noted in the consultation of the Armagh Area Plan. There is further concern regarding the lack of commitment to a full Article 31 Inquiry which would be imperative for such an application.

Council(s) would have concerns regarding the information and analysis used to support such an important application. A large amount of information provided to the application would seem to be based on substantiation of a preferred position rather than a robust economic appraisal of need and options. Council(s) would like to request a copy of the economic appraisal for this application, including both needs analysis and options appraisal, particularly in light of the references within the supporting information' to the strategic need for this application taking precedence over all other issues. This is concerning particularly in light of the health impacts of associations to this application. Further if the strategic need is so important why is there a resistance to underground cabling of the power line.

There is further concern regarding the lack of consistency of information relating to costing, particularly in light of other specialist reports such as ASKON Consultancy who provided a detailed report for the North East Pylon group questioning the costs for overhead and underground cabling. It would seem that figures quoted for this application at a number of forums are continually changing, on some occasions the cost was as much as nine times greater for underground as overhead and at other times it was three times greater. A full cost report that takes account of long term investment return and all specialist reports would be important.



There would also seem to be serious reservation regarding the information of single and double line cabling and the levels of radiation from both and distance of impact. Information provided by Professor O' Carroll, a Chartered Mathematician and Chartered Scientist who has served as an expert witness in public inquiries on powerline proposals as well as on the SAGE stakeholder group advising the UK Dept of Health, questions the application, as quoted 'It should be noted that the NIE application in NI is for a single-circuit 400kV line, not for a balanced double-circuit line, and therefore contrary to the SAGE recommendations of 2007. The EMF from a single circuit line will not have the tendency to cancel as it would from a balanced double-circuit line. As a result, the EMF will remain high for a substantially greater distance from the line". This is a very worrying statement from a specialist in this field.

More importantly the lack of reference to research that provides further analysis and seeks an explanation to a consistent association between childhood leukaemia and living near power lines is missing, such as Henshaw and Preece. It would be useful to see a full detailed report on all research that was considered for this application given the health association that exists.

Concern has been raised by community representatives and the SEAT group that the power line is not at full capacity at 400Kv and further confirmation is required on the future plans and projections for a development of this type.

This inconsistency in information prohibits Council(s) in their role as statutory consultees, and in protecting the rights of consumers Electricity (NI) Order 1992.

Council(s) would like to note the importance of legislation and ensuring it is adhered to. Given the inadequate level of information and the level of deference shown to consultees would suggest a level of negligence in the submission of this application. This standard in light of legislation should not be acceptable from any provider of electricity. There is a real need for a robust analysis of all options taking account of investment returns on underground cabling and all research on health to ensure an informed opinion.

## 2. Health, Safety and Wellbeing

Council(s) would like to raise their serious concerns regarding the health, safety and public wellbeing of this application under its remit as a statutory planning consultee and in compliance with the Electricity (NI) Order 1992 with regard to public safety (HPA definition) in the provision of electricity, Section 4.d & 32.1.

Research and Information as provided by the applicant and profiled in their public documents, that is being used to inform and influence this application, is of major concern to Council(s). The evidence to date would stress an association between the proximity of power lines and childhood leukaemia. As stated in information presented in the public forum by NIE;

'Around 20 epidemiological studies have now been performed looking just at a possible link between childhood leukaemia and EMFs (Electro Magnetic Fields). Some of those studies found no association with magnetic fields, but some have found associations, and consequently research continues until a clearer picture can be achieved'.

The Childhood Cancer Research Group (CCRG) – 2005 Study, also known as the "Draper" study. It found an association between childhood leukaemia and these power lines (1.7- fold increase close to the lines, less further away)'.

Pooled 'Analysis' of epidemiological studies - 2000, Professor Anders Ahlbom. Statistically, there was no significant evidence of any increased risk at the levels of magnetic field to which the overwhelming majority of children are exposed. The study did, however, find that in the category of homes with a field, averaged over 24 hours, of greater than 0.4 microteslas (which applies to fewer than half a percent of children in the UK), there is a statistical suggestion of a two-fold increased risk. Some of these homes are near power lines, but many are not. A statistical finding like this may or may not reflect a real cause-and-effect relationship. It is unlikely to be due to chance, but it could be an artefact of the studies.



The above positions would seem to suggest an associated public health and safety risk to children within a certain vicinity of power lines, many of which are within the proposed distance of the application. To not look at alternatives to this proposal in terms of minimising the risk for children living near power lines is not only negligent in terms of the risk to children's health and safety from harm but impacts upon the human rights of children, as stated in the promise of Government Article 6 of the UNICEF. 'You have the right to life. Governments should ensure that children survive and develop healthily.' Economic cost is not a valid argument when deciding on health implications for children.

There is further research, which has not been included here, to suggest that the association as referenced in studies above may be applicable to causation associated with the electric fields (Henshaw & Preece) and not the magnetic field which would seem to have been concentrated on to date.

It is important to note that major policy decisions have been taken in the past based on health 'associations' which with further research were validated, for example passive smoking and 'e numbers' in foods. Evidence of exact causal relationship were ongoing when key policy decisions were taken on 'associations', due to the importance of public safety and health.

It is also important to reference other planning decisions that have been implicated by the effect on health, reference English planning appeal App/T5720/A/09/2099306 & App/T5720/A/09/20998386 decision - not grant planning permission due to the harmful effects from EMF's caused by the close proximity of the electrical substation to sleeping accommodation.

A further issue that has not been given consideration is the impact of such a policy on equality, particularly in light of new technology. If there is an association between power lines and health (leukaemia) for children, there has been little to no consideration given to substantive mitigating action (alternative solutions) regarding the potential impact of such a proposal against this equality S75 group.



In the absence of much needed further research a cautionary approach is the only solution, given the risk element. Reference Southern Group Environmental Health – *'I would request that the following informative be attached to any planning permission granted. **The applicant should employ best practice and a precautionary approach to ensure that where practicable electric and magnetic field strengths associated with the proposed development are kept to a minimum'**.*

A further issue that has been given no consideration is the health impacts based on the fear and stress of living beside these overhead power lines. Research is showing that stress is now known to have causal effects to a number of diseases and on the immune system.

It is important to note the seriousness of proceeding with such a major application in the absence of 100% assurance given the high health risks and need for further research in this area. This type of application is not one that could be overturned in 5 years time when and if further evidential research became available on cause and effect. Given the commitment of the Northern Ireland Assembly to health and safety and taking precautionary strategic decisions in the past would warrant mitigating action in this application to underground and alleviate any major confirmed health implications. The World Health Organisation admits there are gaps in our knowledge of the association between health and powerlines, reference WHO paper 'Extremely Low Frequency Fields Environmental Health Criteria Monograph 238, 2007'.

In light of the above issues Council(s) would be of the position that given an association and need for further research into overhead lines the applicant should be applicable to taking a precautionary approach to the provision of electricity and should be required as part of planning to underground the power line.

### **3. Environment**

#### **3.1. Area of Scenic Quality**

A major concern for Council(s) is that the application in its current format is not in keeping with planning policy and its aim to conserve the natural environment.

This planning application contravenes Env 1.4 policy of the Regional Development Strategy.

The area proposed in the application for the 400Kv power line is less than 2000m from an area designated for scenic quality as stated in the RDS reference protection of Env. 1.4. It clearly states within the RDS the importance of the protection of such areas and to conserving their distinctive character, nature conservation and built heritage interest.

The application further contravenes both the Dungannon & South Tyrone Borough Area Plan and Armagh Area Plan.

The Dungannon & South Tyrone Area Plan clearly states that the 'identity diversity and sensitivity to change of the quality scenic lowland landscapes should be an important consideration in future management'.

Similarly the Armagh Area Plan, paragraph 3.1 states "The aim of the Armagh Area Plan is to provide a framework of land use proposals and policies which will allow the area to maximise its full development potential in an efficient, economic and orderly manner whilst maintaining a high standard of physical environment and safeguarding its landscape quality and natural resources".

At present a large number of public, community, and business representatives have stated clearly that the proposal for a 400Kv electricity line will have implications for their enjoyment of their right to live and enjoy this area of scenic quality. The proposal also contravenes the right of individuals to enjoy one's own property (Article 8 and 14 of the Human Rights Act).



A further issue relating to the scenic quality of the area is the promotion of tourism, particularly the visual quality of the area and natural assets, the Blackwater River, cycle routes, Ulster Way, Ulster Canal route. The power line will go through all of these natural assets that are critical to the promotion of tourism in NI. There will also be implications for Article 11 of the Human Rights Act regarding the right to enjoy sport and leisure activity of the area.

The comments in the EIS page 22, section (e) of the Non - Technical Summary are very alarming given this document was completed as a specialist report. *"After construction, the towers and transmission lines will remain as significant visual elements in the landscape. However, in time they may become more acceptable features as the towers and conductors will weather and dull down, vegetation and foliage affected by the construction will re-grow, and new planting will become established. Whilst there will be an ongoing need for inspection and occasional repairs, the level of activity in the landscape will be greatly reduced and the overhead line will no longer be a new feature in the landscape"*. This type of analysis is not factual and is incoherent based on a predetermined position.

### **3.2. Area of Conservation**

The application will directly contravene conservation planning policy given that the proposed line is less than 2000m from a site of local nature conservation importance; 'Benburb/Milltown', and Carrigatuke within 5000m. The RDS states clearly at Env. 1.2 'the importance of protecting and managing areas designated for their scientific interest'.

The Dungannon & South Tyrone Area Plan states that SLNCI 'Benburb/Milltown' 'special consideration will be given to the protection of nature conservation interests on or adjacent to these sites when determining planning applications.....Where a development is permitted which would adversely affect such interests, the Department will endeavour to ensure that effects are kept to a minimum and /or appropriate mitigation measures are agreed'.

Equally one of the principle objectives of the Armagh Plan (2004) is "to conserve and enhance the natural and man made environment". The location of Peatlands Park 5000m from the power line causes further concern given the uniqueness of such an area of special conservation in the region.

Council(s) are of the view that the current planning application for the 400Kv power line would have significant detrimental effect to the intrinsic nature conservation interests of the Benburb/Milltown SLNCl site, Carrigatuke and Peatlands Park. Given the status of these and their location to the proposed powerline gives cause for serious concern and breach of regional and local planning policy, particularly in light of lack of appropriate mitigation measures.

Council(s) would like to note the position in the report of Parsons Brinckerhoff in relation to underground cabling in Europe, in that cabling is mainly applied to urban or environmentally sensitive areas, which would suggest the above.

### **3.3 Area of Biodiversity**

Council(s) are of the opinion that adequate consideration has not been given to biodiversity, particularly given the areas of SLNCl. Whilst the environmental study is very comprehensive, it is felt that there are areas that are not consistent particularly relating to status of species. There are a few birds identified in the report whose status do not seem to correlate with the current 2008 – 2013 BoCC in Ireland data, which include the house sparrow, tree sparrow, starling, linnets, Spotted Flycatcher. There is therefore a concern that the status and importance of birds may have been underestimated in this area. Council(s) would also request further clarification on the numbers of birds registered in the area of the line, the figures would seem to be low based on assessments completed in other areas by Council(s).

There is also a lack of comprehensive research in relation to some key species, such as the Newt where standard surveying methods have been cut short, and the surveying of the badger which has been given little to no attention.



There is a concern regarding the cutting of trees and hedgerow removal given their importance to a range of habitats and their role as wildlife corridors.

Noise affects wildlife in a variety of different ways, it can cause the temporary or permanent displacement of animals and birds from particular areas. It can also have psychological effects that are detrimental to wildlife health source: Whilst a noise survey has been complete, given the level of noise anticipated and implications of this, further analysis would have been anticipated.

Council(s) are concerned that not only is there underestimation in surveying within the EIS but that there is also a lack of integration between conservation, biodiversity, areas of special interest and archaeological and cultural heritage.

### **3.4. Area of Archaeology**

The proposed power line is less than 2000m from current and proposed archaeological sites/monuments as referenced in the Dungannon & South Tyrone Area Plan, 'it is important to respect and protect the archaeological and built heritage received from past generations and to improve the quality of new development'. A similar position exists regarding the Armagh Area Plan and the visual impact of the proposed overhead lines to key regional sites such as Armagh Cathedral(s), Navan Fort and Argory, as quoted in the EIS Vol4 Fig.13.4a, 21 pylons are visible from the Navan Fort and 21 pylons are visible from the Argory, two key national assets in the area.

Analysis of the Environmental Impact Statement would suggest that a number of archaeological sites of historic importance have not been recorded. This would need to be rectified to give an accurate account of the characteristic and special interest of the area for proposed development.

Small rural settlements and their built conservation and archaeology uniqueness that are within the 2000m and 5000m buffer of the proposed line such as Benburb, Millford etc and this application will have a negative impact upon their status and viability.

### **3.5 Area of Rural Character**

Further policy objectives of the Armagh Area Plan and Dungannon & South Tyrone Borough Area Plan are "to enhance the quality of life for the rural community". The pylon scheme clearly does not comply with this policy objective as all households will be severely affected by the proposed scheme.

The proposal for the Interconnector 400Kv Overhead line contravenes PPS21 in that it is not a sustainable development that meets the needs of a vibrant rural community or that conserves the landscape and natural resources of the rural area but is excessive, inappropriate and obtrusive development. The proposal also contravenes Article 14 of the Human Rights Act that protects from discrimination on location of property and place to live, including the rural area.

Council(s) would query the process for dealing with rural planning applications current and passed along the route of the powerline.



#### 4. Technology

A major issue is the lack of compliance to the Electricity (NI) Order 1992 in that new technology has not been granted appropriate consideration, reference: Section 4. 'It will be the subject of the Department (c) to promote research into, and the development and use of, new techniques by or on behalf of persons authorised by a licence to generate, transmit or supply electricity;'

There has been a large public call for the use of new technology in underground cabling for the proposed power line. A reference from NIE states that overhead provision has been chosen due to it being the cheaper option. Council(s) would seek further clarity on this given the actual costing of the Moyle interconnector and undersea cabling, and the report of specialist consulting report ASKON, developed for the North East Pylon Pressure Group, stating the importance of cost benefit analysis based on long term return.

Whilst it is stated that current practice is to install overhead cabling, it is evident that many EU countries are looking at new technology and underground cabling. There are many past and current examples across Europe where areas of sensitivity in terms of conservation, beauty and proximity to homes, schools and habitation has resulted in areas of cabling being put underground, including; Newby-Nunthorpe, Germany and in particular North Dublin. Council(s) would query why part of this extended power line originally planned for overhead is now underground and in light of this good practice why would this not be applicable to all areas of the route, see map attached.

Advancements in technology play a key role in supporting environmental sustainability across Europe. Given the possibility of EU funding it would be assumed that such technology providing greater environmental protection, based on underground cabling, would be the most feasible option.

The lack of consideration of new technology would not seem to be in keeping with the essence of the legislation, particularly in light of technological advancements in underground cabling and energy maximisation.



## 5. Economy & Tourism

Expansion of existing and development of new businesses will be obstructed in the vicinity of the proposed power line which will have implications for people being able to maximise their local employment and business opportunities. Councils are concerned about the devaluation of properties and land as a result of the North South Interconnector development proceeding.

The Council(s) have invested heavily in promoting the area as a tourist destination and tourism potential will be greatly diminished if the landscape is severely scarred with pylons. Key tourism assets include an area of scenic quality, Blackwater River and activity tourism, regional and national cycle routes, Ulster Way, numerous sites of historical, archaeological and conservation including the important vista of Armagh Cathedral(s), and the Navan Fort, recognized for its rich international archaeological importance.

The restoration of the Ulster Canal is of particular importance in attracting tourists that will generate income to the economy. Following a meeting in August 2009 with the Blackwater Regional Partnership regarding the Ulster Canal, Rural Development Minister Michelle Gildernew MP MLA said: "I recognise the potential that exists in the restoration and regeneration of the Ulster Canal and how this project could boost the local economy and tourism potential of rural communities. It would act as a catalyst for the regeneration of towns and villages in counties, Armagh, Monaghan and Tyrone and bring long term benefits for the local communities along the route of the canal".

Tourism revenue to the area will be adversely affected as visitor numbers decline and potential tourists are discouraged from visiting due to unsightly pylons. This fall in revenue will not only impact on the assets but the support businesses such as; restaurants, accommodation providers, activity resorts etc.

## **6. Agriculture**

The 400Kv power lines will impact upon the future of farming in the area, particularly land and farm development, farm produce and the food chain, spray irrigation, crop quantities, health and safety at work, and most importantly increased risk of animal disease; reference case of 28 October 2008 a French Civil Court ordered French company RTE, an electricity distributor, to pay almost 400,000 Euros to cattle farmers. Farmers had noticed breathing problems, weakened immune systems, low birth rates and high infant mortality, and undersized animals and genital and digestive disease disorders (sources of infection had been ruled out by the farming authority and veterinary services).

## **7. Community and Social**

The proposal will have a negative impact on education, and other community and church activities due to the associated threat to health. Many people will choose not to attend events, schooling in the vicinity of the power lines which will have implications on the sustainability of services and access to future provision for those living in this area.

The proposed Interconnector will not only have detrimental impact on major national and regional recreational activities mentioned previously but also on local and traditional activities such as road bowling, fishing, local gun and hunting associations, football and walking.

The proposed power line is also not in keeping with the government's commitment to sustainable development to not only conserving and protecting the natural and built environment, but in creating an attractive/high quality environment where people feel safe and which provides the conditions for health and social well-being, reference strategic objectives, First Steps towards Sustainability: 2006. DOE is "

Again some of the information on local groups and consultation provided in the EIS would not seem to be correct from member's knowledge of their areas of representation and would question where the information was sourced and if confirmation of this was undertaken with the local groups.



## 8. Conclusion

Council(s) are of the position that the application in its current format is not in keeping with planning policy or legislation governing the provision of electricity. Council(s) are also of the position that the level of community concern and objection to this application is alarming and would question the information that has been provided to support the application.

In light of the above and points noted in the submission, Council(s) would be of the view that the application should not proceed in its current form and that the applicant should be applicable to taking a precautionary approach to the provision of electricity and should be required to take the necessary technical and operational actions for the purpose of minimising exposures to electricity lines of this level, **principally underground cabling.**

**References:**

Northern Ireland Regional Development Strategy  
Planning Policy Statement PPS21  
Armagh Area Plan  
Dungannon & South Tyrone Area Plan  
Electricity (NI) Order 1992, amended by Energy (NI) Order  
2003, Electricity regulations (NI) Order 2007  
Equality - Section 75 Northern Ireland Act 1998  
Health Protection Agency Order (Northern Ireland) 2007.  
DSD BHC Study  
SEAT  
North East Pylon Pressure  
NIE – Document on Electro Magnetic Radiation  
NIE – Tyrone – Cavan Pylon website information  
HPA– Statement by the National Radiological Protection  
Board

The Planning Service  
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26<sup>th</sup> February 2010

Dear Mr Moore

**Re:** Application for erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Moy, Dungannon, Co Tyrone to the townlands of Crossreagh and Crossbane, Co Armagh where it would connect with the proposed network in the ROI.

Please see attached a joint response by Armagh City & District Council and Dungannon & South Tyrone Borough Council to the above application.

Council(s) would like state that they are opposed to the overhead cabling that is being proposed and would seek a condition to the application for underground cabling.

We would further stress the importance of due planning process in dealing with this application and would call for an Article 31 Inquiry to be held to allow for all conditions of planning policy, and legislation, to be addressed.

Yours sincerely

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R Mulligan  
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18 February 2010

Dear Mr Moore

**Re:** Application for erection of a single circuit 400Kv overhead line from a new 400/275kV substation at Trewmount Road, Moy, Dungannon, Co Tyrone to the townlands of Crossreagh and Crossbane, Co Armagh where it would connect with the proposed network in the ROI.

A joint response is being prepared by Armagh City & District Council and Dungannon & South Tyrone Borough Council to the above application which will be forwarded to the Department by the end of February as per Council(s) previous request and agreement by Planning for additional time.

In advance of submitting its official response to the planning application Council(s) would like state that they are opposed to the overhead cabling within this application. They would like to raise a number of issues that require further clarification and validation regarding the Environmental Impact Assessment that is supporting this application.

Council(s) respect that a detailed amount of work has been completed in relation to the Environmental Impact Assessment, however given its importance to this application they would have serious concerns regarding the validation of some of the information and would seek confirmation on a number of areas:

### **Conservation and Habitats**

Council would seek further information and study that has been undertaken on the areas of special consideration that will be impacted upon by the proposed route, given the importance of such areas as stated in the RDS Env. 1.2.

Council(s) would have concerns that the status and number of birds listed in the EIS has been underestimated. The status of the bird survey would seem to have been based on 2005 – 2008 references which have since been updated. The numbers of birds listed would seem low, particularly in comparison to a number of Council(s) studies on much smaller site areas.

Council(s) would query why on occasion the surveys of some habitats have not followed the accepted survey technique, in particular to the newt and Badger.

Further clarification would be important on the impact of noise on species in the area, both from the power lines and construction, referencing specialist research.

Similarly further information on hedgerows and their role as wildlife corridors and habitats would be essential.

### **Scenic Quality**

The proposed line is both through and in close proximity to an area of scenic quality as listed in the RDS, however this has not been given any specific consideration in the EIS and Council(s) would seek further clarification on this.

The comments in the EIS page 22, section (e) of the Non - Technical Summary are very alarming given this document was completed as a specialist report.

*"After construction, the towers and transmission lines will remain as significant visual elements in the landscape. However, in time they may become more acceptable features as the towers and conductors will weather and dull down, vegetation and foliage affected by the construction will re-grow, and new planting will become established. Whilst there will be an ongoing need for inspection and occasional repairs, the level of activity in the landscape will be greatly reduced and the overhead line will no longer be a new feature in the landscape".* This type of analysis is not factual and is incoherent based on a predetermined position.

### **Archaeology**

Council(s) would request further information on the sources for the list of archaeology sites and analysis. From the report there would seem to be a number of archaeological omissions which are very significant to the area. If the assets are not identified it is difficult to have robust analysis regarding the real impact of this application.

### **Consultation with Local People**

Again some of the information regarding the presence of local groups/schools and consultation undertaken would not seem to be correct from member's knowledge, and they would question where the information was sourced and if any confirmation on this was undertaken with the local groups/people.

### **EMF and Health issues**

This is an area of major concern. The report would seem to highlight a number of research reports that support a pre defined position rather than analysis of a



range of research reports on the impact of power lines and health. Council(s) would seek to know if other specialist and peer reviewed research reports have been analysed on power lines and the associations with health.

Council(s) would also seek clarification regarding the information of single and double line cabling and the levels of radiation from both and distance of impact. Information provided by Professor O' Carroll, a Chartered Mathematician and Chartered Scientist who has served as an expert witness in public inquiries on powerline proposals as well as on the SAGE stakeholder group advising the UK Dept of Health, questions the application, as quoted 'It should be noted that the NIE application in NI is for a single-circuit 400kV line, not for a balanced double-circuit line, and therefore contrary to the SAGE recommendations of 2007. The EMF from a single circuit line will not have the tendency to cancel as it would from a balanced double-circuit line. As a result, the EMF will remain high for a substantially greater distance from the line'.

### Summary

Council(s) would have concerns regarding the information and analysis used to support this application. A large amount of information provided to the application would seem to be based on substantiation of a preferred position rather than a robust economic appraisal of need and options. Council(s) would like to request a copy of the economic appraisal for this application, particularly in light of the references within the EIS to the strategic need for this application taking precedence over all other issues. Council(s) would also like to seek clarity that if the application is of such strategic importance then, given the health impact associations, why is underground cabling not proposed?.

In light of the above concerns Council(s) would request that a detailed specialist analysis would be undertaken of the EIS and an Article 31 Inquiry be instigated for good practice and transparency.

Yours sincerely



T G O'Hanlon  
**MAYOR**  
Armagh City and District Council  
Palace Demesne  
Armagh BT6 0 4EL

R Mulligan  
**MAYOR**  
Dungannon & South Tyrone Borough Council  
Circular Road  
Dungannon BT71 6DT

Our Ref PMC  
Planning Ref O/09/0792F

Date: 05 February 2010



## Comments on Planning Application

**LOCATION** LANDS TO THE REAR OF 152 TREWMOUNT ROAD IN THE TOWNLAND OF TURLEENAN, MOY OVERHEAD ELECTRICAL TRANSM

**PROPOSAL** ERECTION OF A SINGLE CIRCUIT 400KV OVERHEAD LINE 33.9KM FROM A 400/275KV SUBSTATION AT TREWMOUNT ROAD, MOY TO THE

### COMMENTS

I have examined the details contained within the Environmental Statement produced by NIE in association with AECOM in relation to the proposed development. I would make the following comments in relation to Environmental Health matters. These comments are based upon the information submitted by the applicant.

The Planning Service  
RECEIVED  
12 FEB 2010  
File No. ....  
Headquarters 2

#### 1. EMF

In pre-application discussion submissions with Environmental Health the applicant has been advised that it will be necessary to demonstrate that the proposed development will not give rise to public exposure at relevant locations in excess of the limit values published by the International Commission for Non-Ionising Radiation Protection (ICNIRP) which have been adopted by the UK Government for the protection of health.

It is noted from Chapter 11 – 11.2.7.3.(1) that the majority of properties along the route are at least 100m from the line with some properties located closer than 100m. It is understood from pre-application discussion with the applicant that no properties are located less than 60m from the proposed line.

I have examined the calculations of electric and magnetic field exposure presented in Chapter 7. Referring to the results of these calculations chapter 7 – 7.6 (f) advises that, “The electric and magnetic fields which will be produced by the proposed development will comply with the ICNIRP and EU guidelines on the exposure of the general public to Electric and Magnetic Fields.”

It is recognised that some public concern exists in relation to exposure to EMF from the proposed development. Accordingly, the applicant should be encouraged to take a precautionary approach where possible and should give due consideration to technical aspects such as optimal phasing, the position of the lines and other relevant matters

*“Note Any consultation response provided by the Environmental Health Department is based on:  
· information supplied by the applicant, and  
· other information currently available.”*



which could be incorporated into the proposed development for the purpose of minimising EMF exposure.

I would request that the following informative be attached to any planning permission granted.

1. The applicant should employ best practice and a precautionary approach to ensure that where practicable electric and magnetic field strengths associated with the proposed development are kept to a minimum.

#### 2. Water Environment

I would support the measures given in this chapter for the protection of the water environment from impacts which may be associated with the proposed development.

#### 3. Geology and Soils

I would support the measures detailed in this chapter which consider potential issues where development cannot be avoided on ground which may be affected by contamination. The applicant should ensure that adequate consultation is conducted with appropriate regulatory agencies which may include the local council and / or the Northern Ireland Environment Agency should any ground contamination risks be subsequently identified.

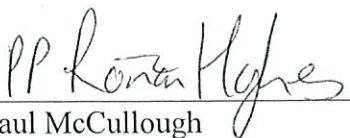
#### 4. Noise

I have examined the details contained in Chapter 11. The applicant advises in Chapter 11 – 11.8 (d) that “The overhead line and substation noise emissions have been predicted and assessed and no mitigation is proposed for noise emissions arising from the operational stage of the proposed development. The predicted levels are below the recommended levels and targets set by the WHO and the British Standards 8233 and 4142 and are thus within acceptable limits.”

On the basis of the information submitted and noise impact assessment provided I would have no objection in principle to the proposed development on the basis of noise. However, I would request that the following informative be attached to any planning permission granted.

#### THE POLLUTION CONTROL AND LOCAL GOVERNMENT (NI) ORDER 1978

5. The applicant is advised to ensure that all plant and equipment used in connection with the development is so situated, operated and maintained as to prevent the transmission of noise to nearby premises.”

  
Paul McCullough

*“Note Any consultation response provided by the Environmental Health Department is based on:  
information supplied by the applicant, and  
other information currently available.”*

Principal Environmental Health Officer (Environmental Protection)  
Southern Group Environmental Health Committee  
26th January 2010

Please note that Armagh City and District Council will be submitting an additional response in relation to this application.

*"Note Any consultation response provided by the Environmental Health Department is based on:  
information supplied by the applicant, and  
other information currently available."*

**Moore, Alan**

**From:** Moore, Alan  
**Sent:** 15 January 2010 09:50  
**To:** 'Marie Mallon'  
**Subject:** RE: Planning Application No. O/2009/0792/F for Tyrone-Cavan Interconnector in the Name of NIE plc

Marie, I note the reasons for a delay in your response until 1st March 2010, however, you will appreciate that the Department is required to process all major strategic applications of this nature in a timely fashion. Consequently, it would assist us greatly if you could respond on or before the 1st March 2010 avoiding any further delay.

Alan Moore  
 Special Studies

---

**From:** Marie Mallon [mailto:Marie.Mallon@armagh.gov.uk]  
**Sent:** 14 January 2010 16:27  
**To:** Moore, Alan  
**Subject:** Planning Application No. O/2009/0792/F for Tyrone-Cavan Interconnector in the Name of NIE plc

Dear Mr Moore

With reference to the above planning application, on behalf of Armagh City and District Council, I wish to formally request an extension to the deadline of 1<sup>st</sup> February 2010 for comments, for the following reasons:

- The application documentation was received by Armagh City and District Council on Monday 4 January 2010. The meeting of the Public Services Scrutiny Committee, which deals with such matters, was scheduled to take place that evening, leaving insufficient time for Members or officers to consider the substantial application information prior to the meeting so that it could be properly discussed;
- The next meeting which will involve all Council Members will be the Statutory Council meeting which will not take place until Monday 25 January 2010;
- Members have agreed that a cross-party group should be established to meet and assist in the formulation of the Council's response, and would also wish to meet with other Councils concerned and those with an interest in the application. The convening of these meetings on mutually suitable dates may not be possible prior to 1<sup>st</sup> February 2010;
- Given the substantial information attached to the application, the Council considers that a 4-week period is insufficient for its adequate consideration by Members and Officers.
- The Council notes that the Environmental Impact Assessment prepared by EirGrid, for the part of the Interconnector situated in the Republic of Ireland, has not yet been received and would be a useful source of information when meeting with the Republic of Ireland Councils concerned.
- The Council considers that the proposals within this application could have a substantial impact on both the environment and affected residents and would therefore require careful scrutiny prior to responding.

Armagh City and District Council would therefore request a 4-week extension to the deadline, with comments due to be received by Planning Service by Monday 1 March 2010.

The Council would be grateful if Planning Service would accede to this request.

Regards

John Briggs  
 Clerk and Chief Executive

15/01/2010



sent on his behalf by M Mallon)

ent on his behalf

**Marie Mallon**  
Democratic Services Officer  
Chief Executive's Department  
Armagh City and District Council  
T:(+44) 028 3752 9600 Ext 3009  
F:(+44) 028 3752 9604  
E: marie.mallon@armagh.gov.uk  
W: www.armagh.gov.uk

DISCLAIMER

Armagh City and District Council

Tel: (44)-02837529600 Fax: (44)-02837529601 email: info@armagh.gov.uk

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Our Ref: 21PL12  
Your Ref: O/2009/0792/F

26 April 2010



Mr A Moore  
Planning Service Headquarters  
Millennium House  
17-25 Great Victoria Street  
BELFAST  
BT2 7BN

Dear Mr Moore

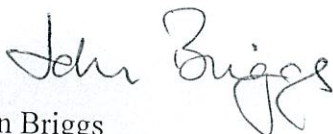
**MAJOR PLANNING APPLICATION – ERECTION OF A SINGLE CIRCUIT 400Kv  
OVERHEAD LINE FROM A NEW 400/275Kv SUBSTATION AT TREWMOUNT ROAD, MOY,  
DUNGANNON, COUNTY TYRONE TO THE TOWNLANDS OF CROSSREAGH AND  
CROSSBANE, COUNTY ARMAGH TO CONNECT WITH THE PROPOSED NETWORK IN  
THE REPUBLIC OF IRELAND**

I refer to the Planning Service correspondence dated 26 March 2010 in respect of the above which was considered at the meeting of the Public Services Scrutiny Committee held on Monday 12 April 2010.

The Council welcomes the Article 31 status which has been placed on the Interconnector planning application, and would encourage the Department to hold a public local inquiry which would allow objectors' views to be heard.

I trust that this can be taken into consideration.

Yours sincerely



John Briggs  
Clerk and Chief Executive



**Moore, Alan**

---

**From:** Crilly, Yvonne on behalf of Planning Service HQ  
**Sent:** 18 February 2010 08:54  
**To:** Moore, Alan  
**Subject:** FW: Proposed Development: Tyrone - Cavan Interconnector - O/2009/0792/F

Alan,

Please see attached - for your action.

Thanks

Yvonne

Yvonne Crilly  
Planning Secretariat  
Tel: 028 9041 6980  
email:yvonne.crilly@doeni.gov.uk

---

**From:** Fitzsimons, Jack - UK [mailto:Jack.Fitzsimons@arqiva.com]  
**Sent:** 18 February 2010 08:24  
**To:** Planning Service HQ  
**Subject:** FW: Proposed Development: Tyrone - Cavan Interconnector - O/2009/0792/F

F.A.O. Mr A Moore:

I am in receipt of your letter dated 12 February. I replied to your original enquiry on 8 January. A copy of my reply is appended below.

Regards,

Jack FitzSimons

---

**From:** Fitzsimons, Jack - UK  
**Sent:** 08 January 2010 11:31  
**To:** 'planning.service.hq@doeni.gov.uk'  
**Cc:** Shergold, Tim - Arqiva  
**Subject:** Proposed Development: Tyrone - Cavan Interconnector - O/2009/0792/F

F.A.O. Mr A Moore:

**PROPOSED DEVELOPMENT: TYRONE - CAVAN INTERCONNECTOR**

Thank you for your letter referring to the above development. Arqiva (formerly National Grid Wireless) is responsible for providing the BBC and ITV's transmission network and is responsible for ensuring the integrity of Re-Broadcast Links (RBLs) and microwave links. We have considered whether this development is likely to have an adverse affect on our operations and have concluded that we have no objection to this application.

Regards,

---

18/02/2010



Jack FitzSimons  
Principal Engineer, Spectrum Planning  
Arqiva  
Email: jack.fitzsimons@arqiva.com  
Phone: +44 (0) 1926 416 257  
Fax: +44 (0) 1926 416 434

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Arqiva Limited. Registered office: Crawley Court, Winchester, Hampshire SO21 2QA United Kingdom Registered in England and Wales number 2487597

**Moore, Alan**

**From:** Crilly, Yvonne on behalf of Planning Service HQ  
**Sent:** 08 January 2010 11:34  
**To:** Moore, Alan  
**Subject:** FW: Proposed Development: Tyrone - Cavan Interconnector - O/2009/0792/F

Alan,

Please see attached - for your action.

Thanks

Yvonne

Yvonne Crilly  
Planning Secretariat  
Tel: 028 9041 6980  
email:yvonne.crilly@doeni.gov.uk

Alan  
Please  
Tha

---

**From:** Fitzsimons, Jack - UK [mailto:Jack.Fitzsimons@arqiva.com]  
**Sent:** 08 January 2010 11:31  
**To:** Planning Service HQ  
**Cc:** Shergold, Tim - Arqiva  
**Subject:** Proposed Development: Tyrone - Cavan Interconnector - O/2009/0792/F

F.A.O. Mr A Moore:

---

**PROPOSED DEVELOPMENT: TYRONE - CAVAN INTERCONNECTOR**

Thank you for your letter referring to the above development. Arqiva (formerly National Grid Wireless) is responsible for providing the BBC and ITV's transmission network and is responsible for ensuring the integrity of Re-Broadcast Links (RBLs) and microwave links. We have considered whether this development is likely to have an adverse affect on our operations and have concluded that we have no objection to this application.

Regards,

---

Jack FitzSimons  
Principal Engineer, Spectrum Planning  
Arqiva  
Email: jack.fitzsimons@arqiva.com  
Phone: +44 (0) 1926 416 257  
Fax: +44 (0) 1926 416 434

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08/01/2010



for any damage sustained as a result of software viruses. We reserve the right to monitor email communications through our networks.

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Alan

Tha

Mr A Moore  
The Planning Service HQ  
Millennium House  
17-25 Great Victoria Street  
Belfast  
BT2 7BN

The Planning Service  
11 JAN 2010

6 January 2010

Reference: ERM/DAP/Planning/TyroneToCavanOverheadLine  
Your Ref: 0/2009/0792 dated 4 January 2010

Dear Mr Moore

### Tyrone-Cavan Overhead Line

Thank you for your recent correspondence relating to the proposed development of an overhead line between the substation at Trewmount Road, Moy and the Republic of Ireland border (also referred to as the Tyrone – Cavan Interconnector. Whilst I have no specific comment concerning the substation development aspect of the proposed development, I trust the following comment relation to the overhead line is useful.

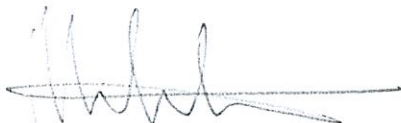
The documentation provided indicates that the maximum height of the structures supporting the overhead line would not exceed 42m. On that basis, I have few observations beyond highlighting the need for the relevant planning authority to check any safeguarding maps lodged with the authority to identify any aerodrome specific safeguarding issues; I would not anticipate any aerodrome related issues. Moreover, the overhead line and supporting towers would not, for civil aviation purposes, constitute an en-route obstruction.

However, I am aware that, in respect of military aviation operations, the Ministry of Defence (MoD) have expressed generic concerns associated with overhead power lines. It is consequently possible that the MoD would make recommendation related to the lighting of the towers and marking of the wires. Accordingly, it is important that the Planning Service establishes the MoD viewpoint related to the subject proposal. The Service should be aware that in general the CAA would wish to support MoD recommendation concerning enhancement to wire conspicuity.

As an aside, it should be noted that, the CAA promulgates known power lines which have a height of 80ft or more, drawing information from a Defence Geographic Agency database.

I hope these few comments match your requirements. Should you require any further civil aviation regulatory input, do not hesitate to get in touch.

Yours sincerely,



Mark Smailes  
ORA5

Moore, Alan

---

**From:** McCallion, Lisa  
**Sent:** 07 April 2010 10:16  
**To:** Moore, Alan  
**Subject:** Application to An Bord Pleanála for approval of the Meath-Tyrone 400 kV Interconnection

Alan,

We received this email from CNCC, usually on our wind farm applications we send CNCC a letter asking them do they wish to be involved in the consultation process and if they do we usually send them a full consultation and copy of the statement

Lisa

---

**From:** Robin, Kim  
**Sent:** 07 April 2010 09:54  
**To:** McCallion, Lisa  
**Cc:** McAlister, Barbara  
**Subject:** FW: Application to An Bord Pleanála for approval of the Meath-Tyrone 400 kV Interconnection

Hi Lisa

Can you help with providing some information on the above application?

CNCC didn't receive any paperwork nor was it consulted on the application. As a major project is RoI required to consult with NI over the application? Can you help explain what the procedure/protocol normally is or, direct me to someone who can? Any help will be much appreciated!

Thank you

Kim

Kind regards

Kim Robin  
The Secretariat  
The Statutory Advisory Councils (CNCC,HBC,HMC)  
1st Floor Calvert House  
23 Castle Place  
Belfast  
BT1 1FY  
Telephone - 02890 254835  
Fax - 02890 254856

<mailto:kim.robin@doeni.gov.uk>

*Spoke to Kim Robin  
who asked for a full  
consultation on both the  
RoI & NI sections of  
the Interconnector.*

*Alise  
7/4/10*



## Moore, Alan

---

**From:** Mackle, Denise  
**Sent:** 13 May 2010 13:57  
**To:** Moore, Alan  
**Subject:** FW: O/2009/0792/F

Alan, in relation to the below mentioned consultation, please see the comments since received from the [Rivers Agency](#) -

"Reference your E-Mail sent to Rivers Agency on the 26th April 2010. Rivers Agency would advise that our Planning Advisory Unit has been in consultation with NIE's consultants Faber Maunsell regarding the location of the Proposed Sub Station and they have appraised and are satisfied with their Flood risk assessment. Regarding the Interconnector over head line Rivers Agency replied in a letter to you dated 11th February 2010. Rivers Agency have no further comments at this time"

The previous comments referred to by Rivers Agency were forwarded in February and were as follows - "**Rivers Agency would advise that the proposed overhead transmission line crosses numerous designated and undesignated watercourses on route. Rivers Agency would advise that under Schedule 6 of the Drainage (NI) Order 1973, the applicant must submit to Rivers Agency for its consents any proposals to carry out works which might affect a watercourse**"

**If any further comments are received, they will be forwarded to you.**

**Thank You**

**Denise Mackle**

**DARD, Countryside Management Development Branch.**

---

**From:** Mackle, Denise  
**Sent:** 07 May 2010 16:48  
**To:** Moore, Alan  
**Subject:** O/2009/0792/F

Alan,

Your reference O/2009/0792/F

Our reference P437/10

Erection of a single circuit 400 kv overhead line from new substation at Trewmount Rd Moy to Crossreagh & Crossbane Co Armagh

We have consulted with Colleagues in the Department in relation to the above mentioned consultation and wish to forward the following comments -

### **QUALITY ASSURANCE BRANCH**

An examination of the Departments records show that none of the lands as outlined in the map, which accompanied your request, are subject to the terms of a notice served relating to Potato Cyst Nematode (PCN) or Potato Wart Disease (PWD). Therefore there are no restrictions in so far as the Plant Health Order (NI) 2006 is concerned on the movement of soil or other material from these lands.

### **FOREST SERVICE**



Nothing further to add to our earlier comments of 9/02/10

**FISHERIES DIVISION**

Fisheries Division has no comments to make in relation to this proposal.

**Rivers Agency** have commented that their reply is to follow.

If any further comments are received, they will be forwarded to you.

Thank You

**Denise Mackle**

Department of Agriculture and Rural Development

Countryside Management Development Branch

Lindesay Hall

Loughry Campus

76 Dungannon Road

Cookstown

BT80 9AA

028 86757550

ext 36550

## Moore, Alan

---

**From:** Mackle, Denise  
**Sent:** 01 June 2010 11:41  
**To:** Moore, Alan  
**Subject:** O/2009/0792/F

Alan,

In relation to  
Your reference O/2009/0792/F  
Our reference P437/10  
Erection of a single circuit 400 kv overhead line from new substation at Trewmount Rd Moy to Crossreagh & Crossbane Co Armagh received 17 May

We have consulted with Colleagues in the Department and wish to forward the following comments -

### **QUALITY ASSURANCE BRANCH**

An examination of the records show that none of the lands as outlined in the map, which accompanied your request, are subject to the terms of a notice served relating to Potato Cyst Nematode (PCN) or Potato Wart Disease (PWD) . Therefore there are no restrictions in so far as the Plant Health Order (NI) 2006 is concerned on the movement of soil or other material from these lands

### **RIVERS AGENCY**

DA2-10-6786 , Doc No 173247 - Rivers Agency have previously commented on the above proposals on a number of occasions and unless further complaints have a relevance to the Agency,s remit then Rivers Agency should not be consulted.

### **FOREST SERVICE**

No further comments to add

### **FISHERIES DIVISION**

Fisheries Divison has no further comments to make in relation to this proposal

### **VETERINARY SERVICE**

Unless there are substantial changes we can see no animal health or welfare implications.

If any further comments are received, they will be forwarded to you.

Thank you

**Denise Mackle**

Department of Agriculture and Rural Development

Countryside Management Development Branch

Loughry Campus

76 Dungannon Road

Loughry

Cookstown

BT80 9AA

028 86757550

ext 36550

## Moore, Alan

---

**From:** Mackle, Denise  
**Sent:** 02 March 2010 11:58  
**To:** Moore, Alan  
**Subject:** FW: TRIM: O/2009/0792/F

**Attachments:** P437\_10\_Tyrone\_to\_Cavan\_interconnector.pdf; P437\_10\_Tyrone\_to\_Cavan\_interconnector.pdf

Alan,

In addition to the comments already forwarded to yourself, please see the comments since received -

### QUALITY ASSURANCE BRANCH

An examination of the Departments records show that this proposal will encroach upon several areas infested with Potato Wart Disease (PWD) and Potato Cyst Nematode (PCN). These lands are subject to notices served relating to PWD and PCN. The movement of soil or other material from these lands is prohibited except under license.

It is the responsibility of the applicant to contact the inspector for this area, Mr George Ferguson, Dungannon Office (028 87754855) regarding the safe disposal or replacing of soil. The Inspector will advise on the selection of suitable dumping sites and agree proposals prior to the issue of the necessary movement licence stipulating the conditions to be observed to prevent the spread of the pest.

Even if the soil is not moved off the infested area, the applicant will still be responsible for ensuring that the contractors or sub-contractors appointed to do the work are made aware of the necessity to take:-

1. Extreme care to avoid spillage of infested soil on public roads; and
2. Any other reasonable precautions such as the cleansing of all tools and earth-moving equipment after use in the infested land to avoid carrying infested soil to clean agricultural land.

### COUNTRYSIDE MANAGEMENT BRANCH

Re: Tyrone - Cavan Interconnector and sub-station at Moy.

We are concerned with the lack of mitigation / reinstatement measures in the ES in relation to soil damage. In light of the scale of this project involving the construction of over 100 pylons we are concerned about the impact of trafficking on agricultural land. Unless work is done when conditions are dry there is a high risk of soil damage or compaction. If this project is going to last three years there is going to be periods when soil conditions will be unsuitable for hauling of materials. Soils and possibly drainage systems are at risk unless low ground pressure vehicles are used.

If any further comments are received, they will be forwarded to you.

Thank You

Denise Mackle

DARD

Countryside Management Development Branch

---

**From:** Mackle, Denise  
**Sent:** 26 February 2010 09:53  
**To:** Moore, Alan  
**Subject:** TRIM: O/2009/0792/F



Alan,

In relation to the below mentioned consultation, please see the comments since received from **The Rivers Agency** -

**"Rivers Agency would advise that the proposed overhead transmission line crosses numerous designated and undesignated watercourses on route. Rivers Agency would advise that under Schedule 6 of the Drainage (NI) Order 1973, the applicant must submit to Rivers Agency for its consents any proposals to carry out works which might affect a watercourse"**

If any further comments are received, they will be forwarded to you

Thanks

Denise Mackle  
Department of Agriculture and Rural Development  
Countryside Management Development Branch  
Lindesay Hall  
Loughry Campus  
76 Dungannon Road  
Cookstown  
BT80 9AA  
028 86757550  
ext 36550

---

**From:** Mackle, Denise  
**Sent:** 09 February 2010 14:02  
**To:** Moore, Alan  
**Subject:** TRIM: FW: TRIM: RE:

Alan,

In relation to  
Planning Application number - O/2009/0792/F  
Our reference P437/10  
Erection of a single circuit overhead line at Trewmount Road, Moy

Please see the revised comments from the Forest Service in relation to the above mentioned consultation

" Earlier reply - there is only one private woodland that intersects the proposed route (not two as earlier reported) - please see attached map."



P437\_10\_Tyrone\_t  
o\_Cavan\_interc...

Alan as below, we have just received the correspondence today (many thanks) and that is enroute to the Countryside Management Advisors. Once comments are received, they will be forwarded to you.

Thank You

**Denise Mackle**  
Department of Agriculture and Rural Development  
Countryside Management Development Branch  
Lindesay Hall  
Loughry Campus  
76 Dungannon Road  
Cookstown  
BT80 9AA  
028 86757550



ext 36550

---

**From:** Mackle, Denise  
**Sent:** 02 February 2010 11:49  
**To:** Moore, Alan  
**Subject:** FW: TRIM: RE:

Alan,  
In addition to the comments below, the Fisheries Division have confirmed that they have no comments to make.  
Denise.

---

**From:** Mackle, Denise  
**Sent:** 02 February 2010 11:43  
**To:** Moore, Alan  
**Subject:** TRIM: RE:

Alan,

In relation to  
Planning Application number - O/2009/0792/F  
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Alan, we are still waiting for the Rivers Agency to come back to us, as to whether or not they have the 5 CD copies of the planning application in front of the Planning Application Submission file. This being the case, we are still waiting for Rivers Agency for their comments and the Advisors in Countryside Management Branch are still waiting on the CD's and so are not in a position to reply as yet. This being the case, we will need an extension on the time limit for responses.

We have consulted with Colleagues in the Department and to date have received the following comments -

#### **FOREST SERVICE**

There is no Forest Service land along the proposed route however there are 2 private woodlands which fall within the route - please see attached map.

Thankyou

29/01/2010



P437\_10\_Tyrone\_t  
o\_Cavan\_interc...

#### **VETERINARY SERVICE**

We have looked at the planning application for the above electricity interconnector ( Consultation P437-10 ) and we can see no animal health or welfare implications.

If any further comments are received, they will be forwarded to you.

Thanks

**Denise Mackle**

Department of Agriculture and Rural Development  
Countryside Management Development Branch  
Lindesay Hall  
Loughry Campus

76 Dungannon Road  
Cookstown  
BT 9AA  
028 86757550  
ext 36550

---

**From:** Moore, Alan  
**Sent:** 27 January 2010 14:13  
**To:** Mackle, Denise  
**Subject:** RE:

Denise, there should be 5 CD copies of the full ES in the back of the non-technical summary. There are also 5 CD copies of the planning application in the front of the Planning Application Submission file. This should suffice but do not hesitate to contact me if you cannot find them.

Alan Moore  
Special Studies

---

**From:** Mackle, Denise  
**Sent:** 27 January 2010 14:08  
**To:** Moore, Alan  
**Subject:**

Alan,

In relation to  
Planning Application number - O/2009/0792/F  
Our reference P437/10  
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Alan, of the documentation that we received, we received one hard copy and 5 CD's. I received a phonecall from the Advisor in Countryside Management Branch that on going through the CD, that the CD didn't include the Environmental Statement. We had issued the hardcopy to Rivers Agency for comment, which does include the Environmental Statement. I have contacted Rivers Agency and when they are finished with the hardcopy, they are going to pass it to the Advisor in Countryside Management Branch. With this in mind, the timelimit for responses will need to be extended to allow Countryside Management to be able to comment. Can you please confirm an extension in the time limit.  
Thanks

**Denise Mackle**  
Department of Agriculture and Rural Development  
Countryside Management Development Branch  
Lindesay Hall  
Loughry Campus  
76 Dungannon Road  
Cookstown  
BT80 9AA  
028 86757550  
ext 36550

## Moore, Alan

---

**From:** Mackie, Denise  
**Sent:** 19 February 2010 14:47  
**To:** Moore, Alan  
**Subject:** Planning Application number - O/2009/0792/F

**Attachments:** P437\_10\_Tyrone\_to\_Cavan\_interconnector.pdf; P437\_10\_Tyrone\_to\_Cavan\_interconnector.pdf

Alan,

I am replying in relation to the above mentioned consultation and your letter dated 11.02.10. To date, any comments that we have been received have been forwarded to yourself. If any further comments are received, they will be forwarded to you urgently.

Let me know if there is a specific reply that you are waiting on, in which case we would send a reminder out.

Thanks  
Denise Mackle

---

**From:** Mackle, Denise  
**Sent:** 09 February 2010 14:02  
**To:** Moore, Alan  
**Subject:** TRIM: FW: TRIM: RE:

Alan,

In relation to  
Planning Application number - O/2009/0792/F  
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Erection of a single circuit overhead line at Trewmount Road, Moy

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P437\_10\_Tyrone\_t  
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Department of Agriculture and Rural Development  
Countryside Management Development Branch  
Lindesay Hall  
Loughry Campus  
76 Dungannon Road  
Cookstown  
BT80 9AA  
028 86757550



---

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Denise.

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**FOREST SERVICE**

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29/01/2010



P437\_10\_Tyrone\_t  
o\_Cavan\_interc...

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If any further comments are received, they will be forwarded to you.  
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**Denise Mackle**  
Department of Agriculture and Rural Development  
Countryside Management Development Branch  
Lindesay Hall  
Loughry Campus



76 Dungannon Road  
Cookstown  
BT80 9AA  
028 86757550  
ext 36550

---

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Alan Moore  
Special Studies

---

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**Sent:** 27 January 2010 14:08  
**To:** Moore, Alan  
**Subject:**

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In relation to  
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Erection of a single circuit overhead line at Trewmount Road, Moy

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Thanks

**Denise Mackle**  
Department of Agriculture and Rural Development  
Countryside Management Development Branch  
Lindesay Hall  
Loughry Campus  
76 Dungannon Road  
Cookstown  
BT80 9AA  
028 86757550  
ext 36550

**Moore, Alan**

---

**From:** Cowan, Tom  
**Sent:** 12 February 2010 14:59  
**To:** Moore, Alan  
**Subject:** Planning Application Number F/2009/0792/F  
**Attachments:** Planning Application 0 2009 0792 F.doc



Planning Application  
0 2009 07...

Please find attached DCAL response to above planning application.



Department of

# Culture, Arts and Leisure

[www.dcalni.gov.uk](http://www.dcalni.gov.uk)

Your reference 0/2009/0792/F  
Our reference TC/ENV  
Date: 12 /02/10

AN ROINN  
**Cultúir, Ealaíon  
Agus Fóillíochta**

MÄNNYSTRIE O  
**Fowkgates, Airts  
An Aisedom**

Mr A Moore  
Planning HQ  
Millennium House  
Belfast  
BT2 7BN

DCAL Inland Fisheries  
Group  
Causeway Exchange  
1-7 Bedford Street  
Belfast BT2 7EG

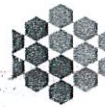
Ref: Planning Application Number 0/2009/0792/F – Erection of  
Overhead Line – Construction of Sub Station.

DCAL are content that the issues raised in our initial response regarding mitigation measures to be adopted to protect the interests of inland fisheries have been adequately addressed under section 8 volume 2 of the environment statement produced by NIE, provided that all conditions are applied and enforced.

The applicant should be made aware that it is an offence under section 47 of the Fisheries Act (Northern Ireland) 1966 to cause pollution which is subsequently shown to have a deleterious effect on fish stocks.

Faithfully,

Tom Cowan.  
Fisheries Operations and Technical Support  
DCAL



Netherleigh  
Massey Avenue  
Belfast BT4 2JP  
Tel: 028 9052 9377  
Textphone: 028 9052 9304  
Fax: 028 9052 9549  
Email: linda.hyland@detini.gov.uk

Mr A Moore  
Planning Service Headquarters  
Millennium House  
17-25 Great Victoria Street  
Belfast  
BT2 7BN

Your Ref: O/2009/0792/F



22 February 2010

Dear Mr Moore,

**Location:** Land to the rear of 152 Trewmount Road in the townland of Turleenan, Moy, Dungannon, Co Tyrone and overhead electrical transmission line from Trewmount Road, Moy to the townlands of Crossreagh and Crossbane, Co Armagh.

**Proposal:** Erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Moy, Dungannon, Co Tyrone to the townlands of Crossreagh and Crossbane, Co Armagh where it would connect with the proposed network in the Republic of Ireland.

In response to your consultation letter of 31 December 2009, on the above planning application, the Department has no comment.

Yours sincerely

**LINDA HYLAND (MRS)**  
Energy Division



Mr Nigel McMahon  
Chief Environmental Health Officer



Department of  
**Health, Social Services  
and Public Safety**

An Roinn

**Sláinte, Seirbhísí Sóisialta  
agus Sábháilteachta Poiblí**

www.dhsspsni.gov.uk

28 JAN 2010

Mr A Moore  
Special Studies Unit  
Planning Service  
Millennium House  
17 – 25 Great Victoria Street  
BELFAST  
BT2 7BN

Castle Buildings  
Stormont Estate  
Belfast BT4 3SQ  
Tel: 028 90 520552  
Fax: 028 90 520725  
Email:  
Nigel.McMahon @dhsspsni.gov.uk

Your Ref: 0/2009/0792/F  
Our Ref:  
Date: 27 January 2010

Mr Moore

#### **PROPOSED NORTH-SOUTH ELECTRICITY INTERCONNECTOR**

Thank you for your correspondence dated 6 January 2010 to Dr Elizabeth Mitchell concerning the Environmental Statement associated with the above planning application. I have been asked to reply.

I highlighted recent policy developments relating to the consideration of public exposure to power frequency electromagnetic fields in previous correspondence and note that these matters have been reflected in the EMF section of the applicant's Environmental Statement.

Any local population health concerns that may be raised by respondents should be considered by referral to the relevant public health bodies, in this case, the Public Health Agency and the Environmental Health Departments of the relevant district councils. I note that these agencies have been consulted in relation to the proposed application.

Yours sincerely

**NIGEL McMAHON**

cc Dr Elizabeth Mitchell  
Seamus Camplisson

The objection letter submitted by Mr Michael Burroughs on behalf of Safe Electricity for Armagh and Tyrone refers.

Landscape Architects Branch would respond as follows to the issues relating to landscape and visual impact raised in the objection letter;

- ( i ) Landscape Architects Branch found compelling the argument presented in the Environmental Statement that excessive economic cost and technical difficulties precluded undergrounding as a viable option. Mr Burroughs suggests evidence contradicts this and that the costs of undergrounding as opposed to providing an overhead line are comparable. Certainly in landscape and visual terms undergrounding would be the preferred option with almost negligible impacts. Our assessment of the preferred option presented in the ES recognised that structures of this scale would have significant landscape and visual impacts but accepted that the route selected had been determined by an environmental impact assessment that addressed the need to avoid direct impacts on designated areas, avoided large settlements, avoided areas with major environmental constraints and attempted to minimise impacts on individual dwellings and on the wider environment. However, in view of the assertion by Mr Burroughs that the costs of the two options are comparable we feel that the applicant should be required to submit further information exploring this issue.
- ( ii ) With regard to the impact of development on the 4 ASSIs we recognise that structures of the scale proposed would potentially have significant landscape and visual impacts but have no direct impacts on these areas. Obviously if undergrounding is a viable option it would remove any landscape and visual impacts on these areas.
- ( iii ) The same also applies to the numerous archaeological sites within the study area. Landscape and visual impacts would be removed by the provision of undergrounding and direct impacts could be avoided by careful route selection.

If I can be of any further assistance please do not hesitate to contact me.



J LENNON

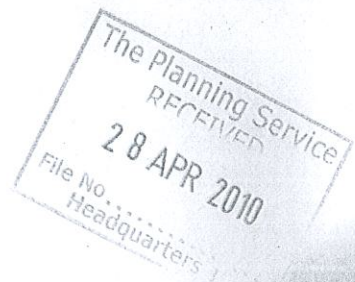
for

M MILLER

Principal Landscape Architect

27 April 2010

*M. Lennon SPTD 27.4.10*





Landscape Architects Branch considers the proposed development acceptable in principle and would make the following comments;

- ( i ) While recognising that the proposals will have significant visual impacts on local environments and receptors we are satisfied that the route selected has been determined by an environmental impact assessment that addresses the need to avoid direct impacts on designated areas, avoids large settlements, avoids areas with major environmental constraints and attempts to minimise impacts on individual dwellings and on the wider environment.
- ( ii ) We advise that there would be a relatively limited amount of existing hedgerows and trees removed along this route and this would not, in our opinion, be collectively of substantial visual significance.
- ( iii ) We advise, however, that when individual tower micro-siting has been determined, as proposed in the Construction Environmental Management Plan, the applicant should be required to submit detailed information, where appropriate, on existing vegetation to be retained or removed and on compensatory planting.
- ( iv ) We also advise that, in compliance with Condition G 03, the applicant should be required to submit a detailed "landscape proposals" plan for the proposed substation that includes information on plant species, size at time of planting, presentation, planting densities / spacings, positions and numbers of each species.

If I can be of any further assistance please do not hesitate to contact me.



J LENNON  
for  
M MILLER  
Principal Landscape Architect  
22 February 2010

*Matthew SPT 22.2.10*



Consultation Response

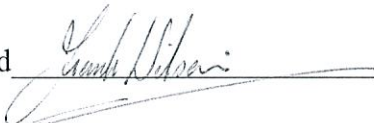
Application Number	O/2009/0792/F
Proposal	Construction of an electricity substation and overhead powerline
Applicant	Northern Ireland Electricity Plc.
Address	Land to the rear of 152 Trewmount Road, Moy, Dungannon

In response to Mr Woods' concerns on the above application, the issues raised will be dealt with as a matter of process.

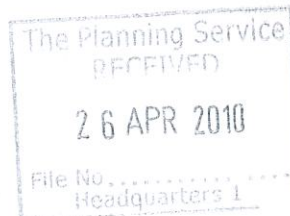
Access from the public road will be necessary in order to facilitate construction/erection and meetings with Roads Service Traffic and Transportation Section and Dungannon Roads Service Section Office, Main Road, Moygashel, Dungannon shall be planned well in advance of commencement of works on site to address all traffic management issues, management of construction traffic and associated haulage routes, proposed location of site depots and associated accesses and proposed accesses to construction site.

Any damage caused to the public road can be resolved under article 11 of the Roads (NI) Order 1993.

Signed



Frank Wilson  
23/04/2010





Ivan W.



Date: 12th February 2010

Our Ref: O/2009/0792/F  
(Please quote at all times)

Roads Service - Craigavon Office  
Marlborough House  
Central Way  
CRAIGAVON  
BT64 1AD



### Headquarters

Millennium House  
17-25 Great Victoria Street  
Belfast  
BT2 7BN



Please contact: Mr A Moore  
Direct Line: 028 90416886

Dear Sir/Madam

**Location:** Land to the rear of 152 Trewmount Road in the townland of Turleenan, Moy, Dungannon, Co Tyrone and overhead electrical transmission line from Trewmount Road, Moy to the townlands of Crossreagh and Crossbane, Co Armagh.

**Proposal:** Erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Moy, Dungannon, Co Tyrone to the townlands of Crossreagh and Crossbane, Co Armagh where it would connect with the proposed network in the Republic of Ireland.

#### OUTSTANDING REPLY TO CONSULTATION ON PLANNING APPLICATION

I refer to our consultation letter 4<sup>th</sup> January 2010 seeking comments on the above planning application.

Unfortunately the 4 week consultation period has now expired and the issue of a planning decision is being delayed pending your reply.

In order to comply with the statutory requirement and to meet the Agency's performance targets should your reply not be received promptly, a decision may issue without the benefit of your comments.

As this matter is now urgent please let me have a reply on or before 3<sup>rd</sup> March 2010.

Please ignore this letter if a reply has already been sent.

Yours sincerely

*A Moore*

for Special Studies



An Agency within the Department of the  
**Environment**  
www.doeni.gov.uk  
DC5039MW

Tel. (028) 9041 6700 Fax. (028) 9041 6983  
Email. [planning.service.hq@doeni.gov.uk](mailto:planning.service.hq@doeni.gov.uk)  
Web. [www.planningni.gov.uk](http://www.planningni.gov.uk)



INVESTOR IN PEOPLE

Roads Service – Armagh Office  
17 Ballynahonemore Road,  
Armagh  
BT60 1JD

In reply to your memo dated the 12<sup>th</sup> of February 2010 I can confirm that Roads Service, in the Armagh Section area have no objections to this planning application.

Ivan Warnock  
Armagh Section Office.  
25/02/2010

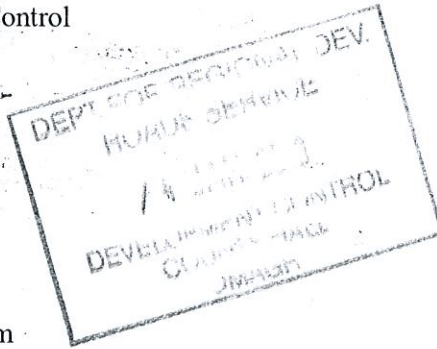


5.



Date: 4th January 2010  
Planning Application Number: O/2009/0792/F  
(Please quote at all times)

Roads Service - Omagh Office  
Development Control  
County Hall  
Drumragh Ave  
OMAGH  
BT79 7AF



**Headquarters**

Millennium House  
17-25 Great Victoria Street  
Belfast  
BT2 7BN

County F  
D  
O  
BT 7

Please contact: Mr A Moore  
Direct Line: 028 90416886

Dear Sir/Madam

ANSWERED 22 JAN 2010

**Location:** Land to the rear of 152  
Trewmount Road in the  
townland of Turleenan,  
Moy, Dungannon. Overhead  
electrical transmission line  
detailed in Form P1(NIE)  
application Attached.

**Date of Application:** 15th December 2009  
**OS Sheet No.:** 263  
**Grid Reference:** 8219042937  
**Application Type:** Full  
**Grid Square:** H

**Proposal:** Erection of a single circuit  
400kV overhead line  
(33.9km) from a new  
400/275kV substation at  
Trewmount Road, Moy to the border where it connects with the proposed  
network in the Republic of Ireland.

**Applicant:**

**Agent:** Northern Ireland Electricity Plc

**Consultation Reason:** Environmental statement + planning application

**SITE HISTORY:** O/2008/0822/Q

*See attached Young's Plan 13/1/10*

Enclosed is a copy of the environmental statement and application details submitted in respect of the above proposal.

In determining the application, the Department will take account of the environmental statement and any representations made. In order that the Department should be in a position to give full consideration to the matter and in accordance with Regulation 14(1) of the Planning (Environmental Impact Assessment) Regulations (Northern Ireland) 1999 I would be grateful if you would forward comments to this address before 1st February 2010.

Yours faithfully

*A Moore*

**For Special Studies**  
An Agency within the Department of the  
**Environment**  
www.doeni.gov.uk



Tel. (028) 9041 6700 Fax. (028) 9041 6983  
Email. planning.service.hq@doeni.gov.uk  
Web. www.planningni.gov.uk



DC5010MW  
INVESTOR IN PEOPLE



### Consultation Response

Application Number	O/2009/0792/F
Proposal	Construction of an electricity substation and overhead powerline
Applicant	Northern Ireland Electricity Plc.
Address	Land to the rear of 152 Trewmount Road, Moy, Dungannon

Reference Drawing Number. 02

Received. 24<sup>th</sup> November 2009

Roads Service have no objections subject to:

CO6 (Commencement)

CO8

C10

B15

B16 (1 Main Road, Moygashel, Dungannon)

B17

B19

Reference drawing numbers 1-3 of 6, detailing the proposed locations of pylons 1-32 within the Dungannon and South Tyrone Borough Council area. Access from the public road will be necessary in order to facilitate construction/erection. Therefore the following conditions and informatives will apply:

CO6 (Commencement)

CO8

C10

B15

B16 (1 Main Road, Moygashel, Dungannon)

B17

B19

A meeting with Roads Service Traffic and Transportation Section and Dungannon Roads Service Section Office, Main Road, Moygashel, Dungannon shall be planned well in advance of commencement of works on site to address all traffic management issues, management of construction traffic and associated haulage routes, proposed location of site depots and associated accesses and proposed accesses to construction site.

REASON: In the interest of public safety and traffic management.

Signed



Frank Wilson

13/01/2010





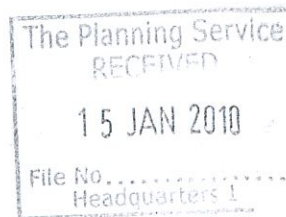


Comhshaol, Oidhreacht agus Rialtas Áitiúil  
Environment, Heritage and Local Government

Your ref: A/2009/0792/F  
0

11<sup>th</sup> January 2010.

Mr A Moore,  
Special Studies Unit,  
The Planning Service N.I.,  
Millennium House,  
17-25 Great Victoria Street,  
Belfast,  
BT2 7BN.

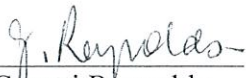


Dear Mr Moore,

I refer to your recent letter in connection with 400Kv overhead line from a new 400/275 kv substation at Trewmount Road, Moy, Dungannon, Co Tyrone to the townlands of Crossreagh and Crossbane, Co Armagh where it would connect with the proposed network in the republic of Ireland

Your correspondence and attachments have been forwarded to Monaghan and Cavan County Councils and they have been asked to contact you directly as to whether they wish to participate in the EIA process.

Yours sincerely

  
Goretti Reynolds,  
Planning and Spatial Policy Section,  
01 888 2895



Moore, Alan

**From:** Moore, Alan  
**Sent:** 25 January 2010 09:32  
**To:** 'Jennifer Hobson'  
**Subject:** RE: Planning Application No. O/2009/0792/F for Tyrone-Cavan Interconnector in the Name of NIE plc

Jennifer, I note the reasons for a delay in your response until 1st March 2010, however, you will appreciate that the Department is required to process all major strategic applications of this nature in a timely fashion. Consequently, it would assist us greatly if you could respond on or before the 1st March 2010 avoiding any further delay.

Alan Moore  
Special Studies

---

**From:** Jennifer Hobson [mailto:JenniferHobson@dungannon.gov.uk]  
**Sent:** 25 January 2010 09:24  
**To:** Moore, Alan  
**Cc:** Claire Linney  
**Subject:** Planning Application No. O/2009/0792/F for Tyrone-Cavan Interconnector in the Name of NIE plc

Dear Mr Moore

Dungannon & South Tyrone Borough Council would like to formally note its request for an extension to the deadline of 1 February 2010 for comments on the above application. A situation arose in this Council similar to that of Armagh & City District Council in that the application for comment arrived after the Council meeting and therefore could not be considered. I will ensure that the application is brought for discussion to the next Council meeting in February.

We as a Council are keen to provide comments on the application due to the significant potential impacts of this proposal and plan to submit a joint response in partnership with Armagh & City District Council. An extension of 4 weeks similar to the request of Armagh & City District would allow for analysis of the application by members in consultation with local citizens and for both Councils to submit a joint response.

Thank you for your consideration of this request and we look forward to a favourable response.

Regards

Alan Burke  
**Chief Executive (Acting)**

*(sent on his behalf by J Hobson)*

PA to Chief Executive

Tel: 028 87 720343

***Dungannon and South Tyrone Borough Council***

25/01/2010

**Comhairle Dhún Geanainn agus Thír Eoghain Theas  
Rathgannon Sooth Owenslann Burgh Cooncil**

Council Offices, Circular Road, Dungannon  
Co Tyrone, BT71 6DT

Web: [www.dungannon.gov.uk](http://www.dungannon.gov.uk)

 Please consider the environment before printing this e-mail

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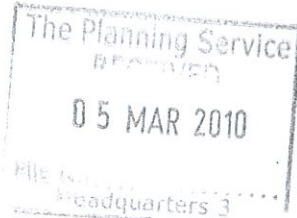


**Public Health  
Agency**

*Office of the Chief Executive  
Public Health Agency  
18 Ormeau Avenue  
BELFAST  
BT2 8HS*

Mr A Moore  
DOE Planning Service  
Millennium House  
17-25 Great Victoria Street  
BELFAST  
BT2 7BN

*Tel: 028 9031 1611  
Fax: 028 9031 1711  
Website: [www.publichealth.hscni.net](http://www.publichealth.hscni.net)*



3 March 2010

Our Ref:

Your Ref: 0/2009/0792/F

Dear Mr Moore

**PLANNING APPLICATION REGARDING TYRONE – CAVAN 400  
KV INTERCONNECTOR PROJECT**

Thank you for your letter of 6 January 2010 requesting a response from the Public Health Agency in relation to the above project.

You will be aware that the Public Health Agency came into existence on 1 April 2009 and earlier correspondence in relation to this project came through the former Southern Health & Social Services Board (SHSSB). For instance on 21 November 2008 SHSSB noted the omission of a key section from the consultation document specifically regarding Electromagnetic Fields. The SHSSB did not therefore feel able to provide detailed comment regarding the Interconnector at that time. However the current document contains a section on Electromagnetic Fields (chapter 7).

Upon review, the document does appear to provide a balanced review of the presently known information and evidence regarding electric fields. I particularly note the statement in chapter 7, paragraph 1 that “the proposed development will comply with ICNIRP&U guidelines on exposure of the general public” (electromagnetic fields).

***Improving Your Health and Wellbeing***



I also note that the proposed route will, at its closest point, be at least 75 metres from the nearest dwelling. Assuming the Interconnector is appropriately maintained and serviced, field strength levels at these nearest dwellings should be considerably less than the internationally acknowledged reference levels (ie less than 1%). Based upon the available information and evidence at our disposal this provides considerable reassurance in terms of safeguarding public health.

It is important however, in terms of public reassurance that the developer (Northern Ireland Electricity) complies with all such guidance.

I trust the above information will be of assistance in your appraisal of the Interconnector Scheme.

Yours sincerely



Dr Eddie Rooney  
Chief Executive

Enc

**Moore, Alan**

**From:** Eddie Rooney [Eddie.Rooney@hscni.net]  
**Sent:** 04 March 2010 14:24  
**To:** Moore, Alan  
**Cc:** gerry.waldron@hscni.net; Doherty, Lorraine; Munnis, Kathryn  
**Subject:** Planning Application Regarding Tyrone - Cavan 400 KV Interconnector Project  
**Attachments:** Attachment for Lr to K Moore.pdf; Ltr - Mr A Moore.doc

"This email is covered by the disclaimer found at the end of the message."

Dear Mr Moore

Please find attached documentation as discussed earlier today.

Regards Helen  
For Dr Eddie Rooney

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## **BRIEFING NOTE:**

### **NORTH/SOUTH 400KV ELECTRICITY INTERCONNECTOR – PLANNING SERVICES CONSULTATION & HPA RESPONSE**

This paper reviews potential Public Health issues which may arise in association with the proposed North/South 400kV Electricity Interconnector.

Northern Ireland Electricity are planning to develop a high voltage Electricity Interconnector in partnership with the Electricity Service Board in the Republic of Ireland. Originating in Co Cavan, the Interconnector will cross the border near Aughnacloy (Co. Tyrone) and terminate after travelling about 20 miles northwards at the Turleenan sub-station (this is due north of Moy on the Armagh – Dungannon road). While this will be the first high voltage Interconnector in Northern Ireland, they are widespread across the UK/Europe and therefore have been in existence for several years elsewhere.

As part of the ongoing planning/consultation process, both the Planning Services (DoE) and agents acting for Northern Ireland Electricity (Fauber Maunsell) have contacted the SHSSB a number of times since 2006. Responses issued by the SHSSB were based upon the need for planners/developers to observe the guidance issued by the Health Protection Agency.

Recent correspondence to the SHSSB from the Planning Service (DoE), dated 3<sup>rd</sup> June 2009, seeks comments regarding additional documents from Northern Ireland Electricity (Fauber Maunsell) which were previously absent from the original consultation document received by the SHSSB on the 21<sup>st</sup> November 2008.

#### *Public Relations & District Council*

Given public meetings and articles within the local press there is evidence of significant public disquiet – this is based upon perceptions within the public arena that the Interconnector is associated with significant risk to 'Health'. This has been also been reflected within Armagh & City District Council: elected representatives / council officers have sought assurances internally from Environmental Health officers as regards to public safety, etc. The SHSSB had not been requested to engage directly with elected representatives nor was it been requested to attend public meetings. However, the Public Health



officers have maintained regular contact with senior Environmental Health officer staff.

There have been requests from the public to Northern Ireland Electricity for the Interconnector cabling to be routed underground. However, while this would diminish the electric field component it would paradoxically increase the magnetic field strength (given that cabling would actually be closer to dwellings).

#### *Impact and effects*

Electric power lines, in summary, emit both electric and magnetic fields. Such fields are non-ionizing and do not therefore possess the direct molecular/biological damaging effects associated with ionizing fields (ie. X-Rays).

No plausible mechanisms have so far been identified by which electric fields could cause or promote cell damage. The Health Protection Agency state that, based upon reviews of available epidemiological studies, high voltage power lines do not appear to pose a significant risk to Public Health. However, observational studies have noted apparent statistical increases in childhood Leukaemia in the vicinity of power lines – however a causal link has not been identified. One study estimated that the increase in absolute terms is estimated to be very small, equivalent to 2-5 additional cases attributable to high voltage Interconnectors over and above the circa 500 cases of childhood leukaemia per annum per year in the UK (the WHO has noted that the link between electromagnetic fields and childhood leukaemia is weak).

#### *Interconnector field strength measurement*

Electric and magnetic field strengths are amenable to direct measurement/quantification and characteristically drops off very rapidly with distance from source. Reference levels for public exposure, which were accepted by Government in 2004, have been identified by the International Commission on Non-Ionising Radiation Protection (ICNIRP):

- Electric Field Strength – 5 kV/m
- Magnetic Field Strength – 100 micro Tesla

The Reference levels are proposed as triggers to further investigation and should not be considered as implying the existence of a



safe/harmful threshold (ie. given underlying absence of a causal link between electromagnetic fields and biological harm).

Studies of Interconnectors worldwide confirm that field strength drops off rapidly and falls below Reference levels within a short distance from cable lines. An assessment of likely field strength associated with the proposed North/South Interconnector recently undertaken by Northern Ireland Electricity demonstrates that field strength would fall below Reference levels at circa 25m from the cable line. At a distance of 75m, the field strength at the nearest private dwelling would be less than 1% of Reference levels. Intermittent/brief exposure above Reference levels is not considered particularly significant, for example, transitory passage directly under the cable line.

Given the field strength/distance relationship, the Health Protection Agency note a potential precautionary approach based upon initiating a 60 metre corridor either side of Interconnector routes within which the development of private dwellings would be restricted. However, they also caution that the adoption of a 'corridor' policy could be counterproductive / fundamentally unnecessary given that studies have not confirmed, in overall population terms, that the potential for harm is significant. Government, to date, has not been adopted a 'corridor' policy.

#### *Proposed HPA position*

A key starting point is to acknowledge the relative absence of robust evidence in terms of any significant harm associated with electromagnetic fields. However, taking the pre-cautionary line it is appropriate to take account of the internationally acknowledged Reference levels.

Recently received correspondence from the Planning Services (DoE) Northern Ireland Electricity demonstrates that the Interconnector route will, at its closed point be at least 75m from the nearest private dwelling. Assuming the Interconnector is appropriately maintained, field strength levels will therefore be considerably less than Reference levels and therefore public exposure to electromagnetic fields will not be significant.

The onus is on the applicant, ie. Northern Ireland Electricity, to demonstrate that the Interconnector is not associated with undue risk to Public Health. In this respect, the applicant sets out within recent

correspondence the intention to comply with international guidance and best practice.

Overall, it is proposed that the Public Health Agency line would not wish to raise any specific objection to the proposed Interconnector. The applicant (NIE) should be asked adhere to best practice as per outlined by the Health Protection Agency.

The Agency may be requested to attend public meetings or a meeting of the Council/elected representatives. To reassure the public, the HPA advocates the provision of high quality, evidence-based, scientific and technical information within the public domain. The HPA state that advice to the public should be proportionate to the risks identified by authoritative bodies and that risks should be presented in the context of other hazards in everyday life. However, raising awareness of an apparent 'hazard' with only limited strategies on how to reduce exposure could potentially cause anxiety for those who live near to powerlines. The Health Protection Agency 'lead' on electromagnetic fields, Dr Jill Meara has previously indicated her willingness to assist with any process to promote public reassurance. In terms of public reassurance, the PHA will no doubt wish to continue to work closely with colleagues within Environmental Health and also involve Nigel McMahon. It is suggested that the Agency should also liaise with counterparts in the Republic of Ireland given the cross border nature of the proposed development.

A draft response to the Planning Services (DoE) is attached for consideration of the Agency Directors.

**End – Dr S Bergin**

#### References

- Guidelines for limiting exposure to time-varying electric, magnetic and electromagnetic fields. Health Physics, April 1998. Vol 74, Number 4 (494-522).
- <http://www.hpa.org.uk/radiation/>
- [http://www.hpa.org.uk/webw/HPAweb&HPAwebStandard/HPAweb\\_C/1204276682532](http://www.hpa.org.uk/webw/HPAweb&HPAwebStandard/HPAweb_C/1204276682532)
- [www.rkpartnership.co.uk/sage/Public/SAGE%20first%20interim%20assessment.pdf](http://www.rkpartnership.co.uk/sage/Public/SAGE%20first%20interim%20assessment.pdf)



*Public Health Agency  
County Hall  
182 Galgorm Road  
Ballymena  
BT42 1QB*

*Tel : 028 25 311151  
Fax : 028 25 311164  
Web Site :*

Mr S Moore  
The Planning Service  
Millennium House  
17-25 Great Victoria Street  
**BELFAST**  
BT2 7BN

7 June 2010

Our Ref: 67/291/1

Your Ref: 0/2009/0792/F

Dear Mr Moore

**RECONSULTATION – LAND TO THE REAR OF 152 TREWMOUNT  
ROAD, TURLEENAN, MOY, DUNGANNON**

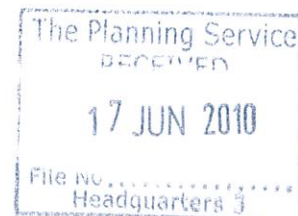
In relation to your letter received 12 April 2010 I would advise that I have no further comments to add to my original letter of 3 March 2010.

Yours sincerely



Dr Eddie Rooney  
Chief Executive

Email: eddie.rooney@hscni.net



Public Health Agency  
County Hall  
182 Galgorm Road  
Ballymena  
BT42 1QB



Mr A Moore  
The Planning Service  
Millennium House  
17-25 Great Victoria Street  
BELFAST  
BT2 7BN

Tel : 028 25 311150  
Fax : 028 25 311164  
Web Site :

24 June 2010

Our Ref: 67/291/1

Your Ref: 0/2009/0792/F

Dear Mr Moore

### **PLANNING APPLICATION REGARDING ELECTRICITY INTER-CONNECTOR PROJECT**

I recently received correspondence in relation to the above project. You will recall that I have already commented on behalf of the Public Health Agency in relation to this project on 3 March 2010 (copy enclosed for your convenience). The further correspondence which was previously addressed to myself at both 18 Ormeau Avenue and Stoney Road Dundonald predominately consists of correspondence objecting to the development and seeking the response of the Public Health Agency to same.

To ensure more expeditious processing in future I would be grateful if all further correspondence could be addressed to myself but directed to the Public Health Agency, County Hall, 182 Galgorm Road, Ballymena BT42 1QB for the attention of Dr Gerry Waldron, Consultant in Health Protection.

In relation to the content of the correspondence I would refer you to my earlier letter of 3 March and advise that these comments remain applicable.



Whilst the majority of the objections in the correspondence do not relate specifically to the potential effects of the proposal on the health of the human population in the area, there are two issues raised by a number of the objectors which probably deserve further comment. These are the association with childhood leukaemia and the health impacts on the population as a result of the fear of living in close proximity to overhead power lines.

The former is largely related to the publication of a research paper in the British Medical Journal in 2005 by Draper and colleagues which concluded that "there is an association between childhood leukaemia and proximity of home address at birth to high voltage power lines". However, it is important to stress that the finding of an association between two factors (in this case electromagnetic fields and leukaemia) does not imply that one is a direct cause of the other. Indeed Draper and colleagues go on to state "there is no accepted biological mechanism to explain the epidemiological results; indeed, the relation may be due to chance or confounding". An accompanying editorial in the same issue of the BMJ noted a number of issues in relation to the study including that "it did not include estimates or measures of the magnetic field from either the power lines or other sources" and concluded that the study "provides little evidence that the increasing risk closer to power lines is due to magnetic fields".

Our colleagues in the Health Protection Agency in England have taken the results of this and other studies into account when advising the English Department of Health to the effect that "the evidence to date suggests that in general there are no adverse effects on the health of the population of the UK caused by exposure to extremely low frequency electromagnetic fields below the guideline levels" (letter from Professor Pat Troop to Right Honorable Dawn Primarolo MP, Minister of State for Public Health, 15 October 2007).

In relation to the latter issue regarding stress generated through fear of living in proximity of overhead power lines, this is indeed an important consideration and it is understandable that people in such circumstances can be subjected to a high degree of stress and anxiety particularly in the light of the uncertainty surrounding these developments and the often contradictory reports on the associated levels of risk to health. Although such anxiety can never be fully eliminated, I believe it is important for all bodies engaging in the debate to ensure that an evidence based approach

is always taken and the potential health effects are neither minimised nor exaggerated.

I trust that you find the above remarks helpful and should you require additional comments in relation to this development, please feel free to contact me through the channels described above.

Yours sincerely



Dr E Rooney  
Chief Executive

c.c. Dr L Doherty

Enc

Email: [eddie.rooney@hscni.net](mailto:eddie.rooney@hscni.net)





**Monaghan**

COUNTY COUNCIL

COMHAIRLE CONTAE  
MHUINEACHÁIN

Arts  
047 71114

Community &  
Enterprise  
047 30500

County Library  
047 51143

County Museum  
047 82928

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047 30593

Finance  
047 30589

Fire/Building Control  
047 30521

Higher Education  
Grants  
047 30550

Housing Estate  
Management  
047 30529

Housing Loans/Grants  
047 30527

Human Resource  
Management  
047 30586

Motor Tax  
047 81175

Planning  
047 30532

Register of Electors  
047 30547

Roads  
047 30597

Water Services  
047 30504

11<sup>th</sup> March 2010

Alan Moore  
Special Studies Unit  
Headquarters  
Millenium House  
17-25 Great Victoria Street  
Belfast  
BT2 2BN

Dear Sir,

**RE: Erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Moy, Dungannon, Co. Tyrone to the townlands of Crossreagh and Crossbane, Co. Armagh where it would connect with the proposed network in the Republic of Ireland - Ref: O/2009/0792/F**

I refer to your correspondence in relation to the above.

I wish to inform you that Monaghan County Council wishes to be included in the consultation process for this application.

Yours faithfully,

  
**Toirleach Gourley**  
**Senior Executive Planner**







Date: 24<sup>th</sup> March 2010  
Planning Application Number: O/2009/0792/F  
(Please quote at all times)

## Headquarters

Mr T Gourley  
Monaghan County Council  
Council Offices  
The Glen  
Monaghan  
Ireland

Millennium House  
17-25 Great Victoria Street  
Belfast  
BT2 7BN

Please contact: Mr A Moore  
Direct Line: 028 90416886

Dear Mr Gourley

---

Location: **Land to the rear of 152 Trewmount Road in the townland of Turleenan, Moy, Dungannon, Co Tyrone and overhead electrical transmission line from Trewmount Road, Moy to the townlands of Crossreagh and Crossbane, Co Armagh.**

Date of Application: **15th December 2009**  
OS Sheet No.: **263**  
Grid Reference: **8219042937**  
Application Type: **Full**  
Grid Square: **H**

Proposal: **Erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Moy, Dungannon, Co Tyrone to the townlands of Crossreagh and Crossbane, Co Armagh where it would connect with the proposed network in the Republic of Ireland.**

Applicant/Agent: **Northern Ireland Electricity Plc**

Consultation Reason: Transboundary EIA

---

I acknowledge receipt of your letter of 11<sup>th</sup> March 2010 seeking to be included in the consultation process for the above application. Enclosed is a copy of the environmental statement and application details submitted in respect of the above proposal.

In determining the application, the Department will take account of the environmental statement and any representations made. In order that the Department should be in a position to give full consideration to the matter and in accordance with Regulation 18(3) of the Planning (Environmental Impact Assessment) Regulations (Northern Ireland) 1999 I would be grateful if you would forward comments to this address before 21<sup>st</sup> April 2010.

Yours sincerely

**For Special Studies**  
An Agency within the Department of the  
**Environment**  
www.doeni.gov.uk



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Email. [planning.service.hq@doeni.gov.uk](mailto:planning.service.hq@doeni.gov.uk)  
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Monaghan

COUNTY COUNCIL

COMHAIRLE CONTAE  
MHUINEACHÁIN

Arts  
047 71114

Community &  
Enterprise  
047 30500

County Library  
047 51143

County Museum  
047 82928

Environment  
047 30593

Finance  
047 30589

Fire/Building Control  
047 30521

Higher Education  
Grants  
047 30550

Housing Estate  
Management  
047 30529

Housing Loans/Grants  
047 30527

Human Resource  
Management  
047 30586

Motor Tax  
047 81175

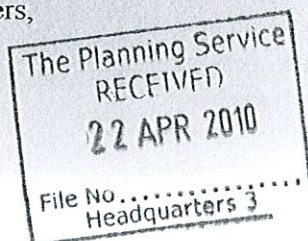
Planning  
047 30532

Register of Electors  
047 30547

Roads  
047 30597

Water Services  
047 30504

Alan Moore  
Special Studies Unit  
Planning Service Headquarters,  
Millenium House,  
17-25 Great Victoria Street,  
Belfast  
BT2 2BN



19<sup>th</sup> April 2010

Dear Sir

**RE: Erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Moy, Dungannon, Co. Tyrone to the townlands of Crossreagh and Crossbane, Co. Armagh where it would connect with the proposed network in the Republic of Ireland - Ref: O/2009/0792/F**

In respect of the above development Monaghan County Council wishes to make the following comments on the above proposal:-

1. Landscape

Monaghan County Council would consider that portion of the proposed development between the international border and tower 89 to be of the most significance in terms of visual impact. This portion of the proposed development traverses elevated ground and thus is visible in parts of County Monaghan greater than 5 kilometres from the development. Consequently Monaghan County Council considers that the assessment of the visual impact of the proposed development from County Monaghan has not been sufficiently comprehensive. The extent of the Zone of Theoretical Visibility study area is limited and should be extended to at least seven kilometres from the proposed development to allow Monaghan County Council to fully assess the impact of the proposed development.

2. Views and Prospects

Monaghan County Council considers that given the elevated nature of that portion of the proposed development between the international border and tower 89, it will be visible from the following scenic views designated in the Monaghan County Development Plan 2007-2013:-

- a. scenic views of open countryside from Bragan Mountain (SV2-SV)
- b. scenic view from Castleshane Brae (SV10)



- c. scenic view from Tullybuck (SV11)
- d. scenic drive and views of open countryside from Mullyash Mountain (SV12-SV7)

Consequently a comprehensive assessment of the visual impact of the proposed development upon the integrity of these scenic views is necessary to allow Monaghan County Council to fully assess the impact of the proposed development.

### 3. Photomontages

Monaghan County Council considers that the photomontages submitted with the Environmental Impact Statement provide limited reference to the visual impact of the proposed development when viewed from County Monaghan, particularly in respect to the elevated portion of the proposed development between the international border and tower 89. Consequently, to allow Monaghan County Council to fully assess the impact of the proposed development, the photomontage should include additional critical views such as from the scenic routes outlined in point 2 above, and other elevated areas in the county within a radius of at least seven kilometres.

### 4. Landscape Character Assessment

The proposed development has the potential to impact upon both the Mullyash Uplands Landscape Character Area and to a lesser extent upon the Blackwater Valley and Drumlin Farmland Landscape Character Area, given their sensitivity to change being high. Due to the elevated nature of that portion of the proposed development between the international border and tower 89, the proposed development will have greatest adverse impact upon the character of the Mullyash Uplands Landscape Character Area. Therefore Monaghan County Council would consider that the assessment of the proposed development upon the integrity of these landscape character areas in the Environmental Impact Statement to be insufficient.

### 5. Impact upon Archaeology

The landscape of County Monaghan in the vicinity of the proposed development contains a number of archaeological features which may be inter-linked with other archaeological features both in County Monaghan and County Armagh. It is considered that the extent of the study area in the Environmental Impact Statement is inadequate to properly assess the impact of the proposed development upon the integrity of the network of archaeological features in the vicinity of the proposed development and to determine whether or not the proposed development would adversely affect the cumulative relationship between these archaeological features.



I trust that these comments will be considered in the determination of the application. Please do not hesitate to contact me if you require any further clarification.

Yours faithfully,

*T. Gourley*

Toirleach Gourley  
Senior Executive Planner

12 JAN 2010

Mr A Moore  
The Planning Service  
Millennium House  
17-25 Great Victoria Street  
Belfast  
BT2 7BN

**NERL Safeguarding**

NATS - CTC  
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T: 01489 444687  
F: 01489 444013  
E: nerlsafeguarding@nats.co.uk

05 January 2010

Your Ref: O/2009/0792/F  
Our Ref: SG0358

Dear Sir,

**Proposal:** Erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road to the border where it connects with the proposed network in Republic of Ireland

**Location:** Land to the rear of 152 Trewmount Road, in the townland of Turleenan, Moy, Dungannon

The proposed development has been examined from a technical safeguarding aspect and does not conflict with our safeguarding criteria. Accordingly, NATS (En Route) Limited has no safeguarding objections to this proposal.

Please be aware that this response applies specifically to the above consultation based on the information supplied at the time of this application. If any changes are proposed to the information supplied to NERL in regard to this application (including the installation of wind turbines) which become the basis of a full, revised, amended or further application for approval, then as a statutory consultee NERL requires that it be further consulted on any such changes prior to any planning permission or any consent being granted.

Yours faithfully,



Sarah Allen  
Technical Administrator  
for & on Behalf of NATS (En Route) Ltd

Your Ref: O/2009/0792



Northern Ireland  
Tourist Board

Mr A Moore  
Headquarters  
Planning Service  
Millennium House  
17-25 Great Victoria Street  
Belfast  
BT2 7BN

24 May 2010

Dear Mr Moore



**App No:** O/2009/0792/F

**Proposal:** Erection of single circuit overhead line and new substation

**Location:** Trewmount Road, Turleenan, Moy, Dungannon, Co. Tyrone

Thank you for the opportunity to comment on the above application. As the strategic body for the promotion of tourism in Northern Ireland, we would make the following points.

#### **Corporate policy**

NITB does not have a policy on the placement and positioning of overhead electricity lines.

#### **Strategic tourism targets**

The tourism industry makes a major contribution to Northern Ireland's economy each year. This has been recognised in the Northern Ireland Executive 'Programme for Government 2008 – 11' which sets ambitious targets for increasing revenue from tourism by 2011, namely increasing the number of tourists visiting each year from 1.98 m to 2.5 m by 2011 and increasing tourism revenue from £370m to £520m each year by the same date.

The draft Tourism Strategy for Northern Ireland launched in February 2010 sets out new targets for growth including;

- Increasing visitors from 3.2million to 4.5million by 2020
- Increasing earnings from tourism by £520million to £1billion by 2020
- Progressively accelerating spend by visitors
- Targeting specific markets and market segments
- Supporting indigenous high quality businesses to grow
- Being visitor inspired in all our actions

#### **Tourism value**

I understand that the relevant local councils have already provided information on specific tourism assets, but at a general level the area is of value in terms of scenic quality, archaeological and cultural heritage and opportunities for activity tourism.

In terms of scenic quality, the site of the proposed development lies in attractive countryside. It may be worth noting that the NITB consumer website [www.discovernorthernireland.com](http://www.discovernorthernireland.com) promotes Armagh as the 'Orchard County', owing to the rich apple growing country centred around Loughgall

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Email: [info@nitb.com](mailto:info@nitb.com)  
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Telephone: (028) 9023 1221  
Textphone: (028) 9089 5512  
Fax: (028) 9024 0960

Consumer website: [www.discovernorthernireland.com](http://www.discovernorthernireland.com)

Chairman: Tom McGrath OBE  
Chief Executive: Alan Clarke



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in the north of the county, near to the site of the proposed development. The River Blackwater flows through the area adding to the scenic quality.

The area also has a rich cultural heritage and has been the host of numerous fascinating archaeological discoveries. Navan Fort, thought to have been an ancient pagan ceremonial site features prominently in Irish mythology and is thought to have been the earliest capital of Ulster. There are also a number of historic buildings and gardens dotted around the area. The Argory for example, dates from the 1820s and its hillside location has wonderful views over the gardens and 320 acre wooded estate bordering the River Blackwater.

The area also offers numerous walking, cycling and natural trails such as the Ulster Way, the Ulster Canal Route and the Ulster Canal Cycle Trail.

### **Conclusion**

I understand that the potential tourism impact of the proposed development has been addressed in a joint response by the affected local authorities. Given that Armagh City and District Council and Dungannon and South Tyrone Borough Council have a much greater familiarity with the locality they are in a better position to comment on this application. I would, therefore, consider it appropriate to defer to their greater knowledge of the issues.

Yours sincerely



Ruth Morgan  
**Policy and Environment Officer**

**O/20090792/F - Proposed NIE overhead electrical transmission line - Cavan Interconnector**

As part of an Information Sharing Agreement with NI Water, the applicant NIE Plc can establish if / where the proposal will interfere with any existing public water and sewerage services.

With regard to any proposed water and sewerage services with which the proposal may interfere, the applicant should liaise directly with Mr Richard Long within NI Water, Strategic Asset Management Section.

Where it is clearly established that interfere with existing/ proposed public water and sewerage services will occur the applicant **must** contact NI Water accordingly.

EDDIE MINFORD  
Developers Services Co ordination Team  
Academy House  
121a Broughshane Road  
BALLYMENA  
BT43 6BA



Northern Ireland Environment Agency  
Historic Buildings Unit  
Planning response

to: The Planning Service

Planning Ref: **O/2008/0222**

HBU Ref: **HB15/12/013**

---

subject: **PAD for proposed North South Electricity Corridor**

NIEA:HBU request further information

164 Trew Mount Rd (HB13/08/070A)

166 Trew Mount Rd (HB13/08/070B)

142 Moy Rd (HB13/08/077)

Gate Lodge For Tullydowey House (HB13/11/039)

Tullydowey House & Gardens (HB13/11/040)

Mullyloughan House/ Glenaul House Tullydowey House (HB15/12/012)

The development proposal has the potential of affecting the setting of the above listed buildings and we would request further information regarding proximity of the proposed line and exact position of the proposed towers in relation to the existing Listed Buildings

*COPY*

.....  
Anne Menary  
NIEA:HBU

Date: 01/10/2009

	Initials	Date
CHECKED BY		



Hossack, Helen

**From:** Hossack, Helen  
**Sent:** 09 December 2009 16:00  
**To:** Moore, Alan  
**Cc:** Menary, Anne  
**Subject:** O/2008/0822/Q North-South Electricity Interconnector

Alan

NIEA: Historic Buildings Unit has responded to several consultations for this pre application enquiry requesting further information in order to enable us to make a full and considered assessment of the potential impact on the setting of any of the listed buildings concerned.

HBU cannot input further into this process without knowing with more certainty than has been given to date, where the proposed towers are going to be located. I suspect at this stage that this information is not yet available.

Para. 12.5.2 of the Environmental Statement states 'Sites where there is a minor negative impact will have their setting affected, but the impact will not be overly intrusive'.

Para. 12.6.d & f states 'The visual impacts upon the setting and context of the sites and historic landscape cannot be adequately mitigated ... the visual impacts upon the setting of listed buildings could be partially mitigated by screen planting surrounding the buildings. However, as this will not mitigate all impacts it is not recommended.'

The document clearly anticipates that there will be circumstances where setting is an issue.

I would suggest that HBU makes no further comments at this stage. We ask, however, that Planning Service makes the applicant fully aware that we are mindful of potential impact and that there may be instances where the proposals will be considered contrary to PPS6. This will only become clear when further details are lodged.

Helen Hossack  
NIEA:HBU  
email: helen.hossack@doeni.gov.uk

09/12/2009

Northern Ireland Environment Agency  
Historic Buildings Unit  
Planning response

to: The Planning Service

Planning Ref: O/2009/0729/F  
HBU Ref: HB15/12/013

---

subject: **Erection of single circuit 400 kV overhead line from a new 400/275 kV substation at Trewmount Road Moy Dungannon, Co. Tyrone to the townlands of Crossreagh and Crossbane Co. Armagh where it would connect with the proposed network in the Republic of Ireland.**

NIEA:HBU acknowledges receipt of the letter of objection and reiterates our previous responses which we have attached.

*Anne Menary*

.....  
Anne Menary  
NIEA:HBU

Date: 14/04/2010



	Initials	Date
CHECKED BY		



Northern Ireland Environment Agency  
Historic Buildings Unit  
Planning response

to: The Planning Service

Planning Ref: **O/2008/0222**

HBU Ref: **HB15/12/013**

---

subject: **PAD for proposed North South Electricity Corridor**

NIEA:HBU continue to have concerns under BH11 of PPS6 regarding the setting of the listed buildings below and the effect of the substation and proposed towers on their setting. The information provided does not show in sufficient detail the relationship between the listed buildings and proposed structures. A 3d Perspective / sections to demonstrate this relationship is requested.

164 Trew Mount Rd (HB13/08/070A)

166 Trew Mount Rd (HB13/08/070B)

142 Moy Rd (HB13/08/077)

Gate Lodge For Tullydowey House (HB13/11/039)

Tullydowey House & Gardens (HB13/11/040)

Mullyloughan House/ Glenaul House Tullydowey House (HB15/12/012)

*Anne Menary*

Date: 17/05/2010

Anne Menary  
NIEA:HBU

	Initials	Date
CHECKED BY		



Northern Ireland Environment Agency  
Historic Buildings Unit  
Planning response

to: The Planning Service

92  
Planning Ref: O/2009/0729/F  
HBU Ref: HB15/12/013

---

subject: **Erection of single circuit 400 kV overhead line from a new 400/275 kV substation at Trewmount Road Moy Dungannon, Co.Tyrone to the townlands of Crossreagh and Crossbane Co. Armagh where it would connect with the proposed network in the Republic of Ireland.**

NIEA:HBU acknowledges receipt of a further letter of objection and reiterates our previous responses which we have attached.

NIEA/HBU would also request a copy of the document detailing the location of each tower including Trewmount. This information was sent back to Planning Service following early responses.

  
.....  
Anne Menary  
NIEA:HBU

Date: 26/04/2010



	Initials	Date
CHECKED BY		

**Hossack, Helen**

---

**From:** Hossack, Helen  
**Sent:** 09 December 2009 16:00  
**To:** Moore, Alan  
**Cc:** Menary, Anne  
**Subject:** O/2008/0822/Q North-South Electricity Interconnector

Alan

NIEA: Historic Buildings Unit has responded to several consultations for this pre application enquiry requesting further information in order to enable us to make a full and considered assessment of the potential impact on the setting of any of the listed buildings concerned.

HBU cannot input further into this process without knowing with more certainty than has been given to date, where the proposed towers are going to be located. I suspect at this stage that this information is not yet available.

Para. 12.5.2 of the Environmental Statement states 'Sites where there is a minor negative impact will have their setting affected, but the impact will not be overly intrusive'.

Para. 12.6.d & f states 'The visual impacts upon the setting and context of the sites and historic landscape cannot be adequately mitigated ... the visual impacts upon the setting of listed buildings could be partially mitigated by screen planting surrounding the buildings. However, as this will not mitigate all impacts it is not recommended.'

The document clearly anticipates that there will be circumstances where setting is an issue.

I would suggest that HBU makes no further comments at this stage. We ask, however, that Planning Service makes the applicant fully aware that we are mindful of potential impact and that there may be instances where the proposals will be considered contrary to PPS6. This will only become clear when further details are lodged.

Helen Hossack  
NIEA:HBU  
email: helen.hossack@doeni.gov.uk

09/12/2009

**Planning Ref:** O / 2009 / 0792 / F  
**NIEA: HMU Ref:** SM 11 / 2 Arm 7,11,12,15,16,19. Tyr 61,62  
**Site:** Land to the rear of 152 Trewmount Road in the townland of Turleenan Moy, Dungannon. Overhead electrical transmission line from Trewmount Road Dungannon to border of Republic of Ireland.  
**Date:** 14/05/2010

Please refer to our comments in respect of this application dated 26<sup>th</sup> January 2010, our position has not changed.

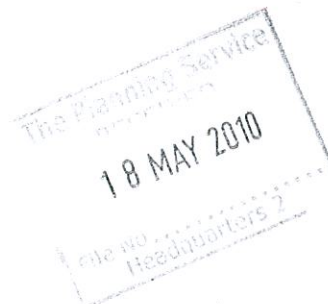
NIEA: Historic Monuments Unit has received and reviewed the objection letter from Mr. Ronan Woods in respect of the proposed development. We take note of his comments and points made, including the reference to Neolithic remains along the route. It is assumed this statement is referring to the potential for previously unrecorded below ground archaeological remains, which may be impacted upon in the course of development works. This issue has been addressed by the recommendation for archaeological mitigation, as detailed below.

NIEA: HMU have requested that should this application be approved, it should be conditional on the agreement and implementation of a developer-funded programme of archaeological works, to identify and record any archaeological remains in advance of new construction, or provide for their preservation *in situ*, as per **Policy BH 4 of PPS 6**.

If further discussion is required please contact me on 028 90543107.



Gail Howell  
Casework Officer





2. A photographic analysis of the nature of these visual impacts on the local archaeology is required so that the impact on the monuments can be properly considered;
3. The patchwork nature of our local fields has not been addressed;
4. The Neolithic remains along the route have not been taken account of (as no sub-surface archaeological surveys have been carried out at any point.

Whilst I have attempted to list all the issues raised by this objector, please feel free to comment on any other matter you feel that is relevant to your expertise. Please enter your comments below and return this form as soon as possible but not later than 10<sup>th</sup> May 2010. If the application goes to appeal then a copy of your reply will be made available, if requested by the appellant or his agent.

Yours sincerely



For Special Studies

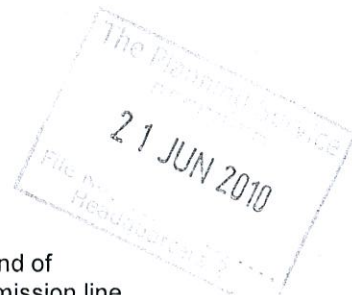
COMMENTS (Continue overleaf if necessary)

Signed: \_\_\_\_\_

Dated: \_\_\_\_\_

**NORTHERN IRELAND ENVIRONMENT AGENCY  
HISTORIC MONUMENTS UNIT**

**5 - 33 Hill Street  
Belfast BT1 2LA  
Tel: (028) 9023 5000  
Fax: (028) 9054 3111**



**For the attention of:** Mr. A. Moore D.P.O. Belfast  
**Planning Ref:** O / 2009 / 0792 / F  
**Development:** Land to the rear of 152 Trewmount Road in the townland of Turleenan Moy, Dungannon. Overhead electrical transmission line from Trewmount Road Dungannon to border of Republic of Ireland.  
**Our Ref:** SM 11/2 Arm 7, 11, 12, 15, 16, 19. Tyr 61, 62  
**Date:** 18/06/2010

- No site works of any nature or development shall take place until a programme of archaeological work, has been implemented, in accordance with a written scheme and programme prepared by a qualified archaeologist, submitted by the applicant and approved by the Department. The programme should provide for the identification and evaluation of archaeological remains within the site, for mitigation of the impacts of development, through excavation recording or by preservation of remains, and for preparation of an archaeological report.
- **Reason:** to ensure that archaeological remains within the application site are properly identified, and protected or appropriately recorded.
- Access shall be afforded to the site at all reasonable times to any archaeologist nominated by the Department to observe the operations and to monitor the implementation of archaeological requirements.

**Reason:** to monitor programmed works in order to ensure that identification, evaluation and appropriate recording of any archaeological remains, or any other specific work required by condition, or agreement is satisfactorily completed.

**Advice :**

For guidance on the preparation of the Written Scheme and Programme of Archaeological Work, which should be submitted for approval at least 4 weeks before work is due to begin, contact:

Northern Ireland Environment Agency – Historic Monuments Unit  
5 - 33 Hill St, Belfast BT1 2LA  
Tel: 028 – 9023 5000 ext 43107

Quote reference: **SM 11/2 Arm 7, 11, 12, 15, 16, 19. Tyr 61, 62**

Application for the excavation licence, required under the Historic Monuments and Archaeological Objects (NI) Order 1995, should be submitted at least 3 weeks before work is due to begin, by a qualified archaeologist responsible for the project, to:

Northern Ireland Environment Agency – Historic Monuments Unit  
5 - 33 Hill St, Belfast BT1 2LA Tel: 028 – 9023 5000 ext 43107

Gail Howell  
Casework Officer

**Planning Ref:** O / 2009 / 0792 / F  
**NIEA: HMU Ref:** SM 11 / 2 Arm 7,11,12,15,16,19. Tyr 61,62  
**Site:** Land to the rear of 152 Trewmount Road in the townland of Turleenan Moy, Dungannon. Overhead electrical transmission line from Trewmount Road Dungannon to border of Republic of Ireland.  
**Date:** 18/06/2010

Please refer to our comments in respect of this application dated 26<sup>th</sup> January 2010, our position has not changed.

NIEA: Historic Monuments Unit (HMU) has reviewed the objection letter from Mr. Jim Lennon in respect of the proposed development; we take note of the comments and points made.

NIEA: HMU have requested that should this application be approved, it should be conditional on the agreement and implementation of a developer-funded programme of archaeological works, to identify and record any archaeological remains in advance of new construction, or provide for their preservation *in situ*, as per **Policy BH 4 of PPS 6**.

Please ensure that conditions are attached to any approval.

If further discussion is required please contact me on 028 90543107.



Gail Howell  
Casework Officer



GHIKN

JM 11/2 ARM 7, 11, 12, 15, 16,  
19 + T42 61, 62



Date: 5th January 2010  
Planning Application Number: O/2009/0792/F  
(Please quote at all times)

etc.

10/2

Mrs A Given  
NIEA - Protecting Historic Monuments  
Northern Ireland Environment Agency  
5-33 Hill Street  
Belfast  
BT1 2LR

**Headquarters**

Millennium House  
17-25 Great Victoria Street  
Belfast  
BT2 7BN

28 JAN 2010  
5-33 Hill Street  
Belfast  
BT1 2LR

loc'd  
06/01/2010

Please contact: Mr A Moore  
Direct Line: 028 90416886

Dear Mrs Given

**Location: Land to the rear of 152  
Trewmount Road in the  
townland of Turleenan,  
Moy, Dungannon. Overhead  
electrical transmission line  
detailed in Form P1(NIE)  
application Attached.**

**Date of Application: 15th December 2009  
OS Sheet No.: 263  
Grid Reference: 8219042937  
Application Type: Full  
Grid Square: H**

**Proposal: Erection of a single circuit  
400kV overhead line  
(33.9km) from a new  
400/275kV substation at  
Trewmount Road, Moy to the border where it connects with the proposed  
network in the Republic of Ireland.**

**Applicant:**

**Agent: Northern Ireland Electricity Plc**

**Consultation Reason: Environmental Statement + planning application**

**SITE HISTORY: O/2008/0822/Q**

*Response Outline*

Enclosed is a copy of the environmental statement and application details submitted in respect of the above proposal.

In determining the application, the Department will take account of the environmental statement and any representations made. In order that the Department should be in a position to give full consideration to the matter and in accordance with Regulation 14(1) of the Planning (Environmental Impact Assessment) Regulations (Northern Ireland) 1999 I would be grateful if you would forward comments to this address before 2<sup>nd</sup> February 2010.

Yours sincerely

*A Moore*

**For Special Studies**  
An Agency within the Department of the

**Environment**

www.doeni.gov.uk



Tel. (028) 9041 6700 Fax. (028) 9041 6983  
Email. [planning.service.hq@doeni.gov.uk](mailto:planning.service.hq@doeni.gov.uk)  
Web. [www.planningni.gov.uk](http://www.planningni.gov.uk)



**DC5010MW**  
INVESTOR IN PEOPLE

**Planning Ref:** O / 2009 / 0792 / F  
**NIEA: HMU Ref:** SM 11 / 2 Arm 7,11,12,15,16,19. Tyr 61,62  
**Site:** Land to the rear of 152 Trewmount Road in the townland of Turleenan Moy, Dungannon. Overhead electrical transmission line from Trewmount road Dungannon to border of Republic of Ireland.  
**Date:** 26/01/2010

The proposed development passes through an archaeologically sensitive location, where there are several archaeological sites and monuments in proximity. These include the Navan Area of Significant Archaeological Interest which is c. 1km to the east of the application site along with several Scheduled Monuments, all of which are afforded protection under the Historic Monuments and Archaeological Objects Order (Northern Ireland) 1995 and also under the provisions of **Policy BH 1 of PPS 6**. The protection afforded to these monuments under Policy BH 1 of PPS 6 also extends to their setting. Any proposed development which would have an adverse visual and/or physical impact on the setting or views of the monument would provide the basis for refusal of planning permission.

NIEA: Historic Monuments Unit have reviewed the cultural heritage section of the Environmental Statement submitted with this application, and would agree with the archaeological mitigation detailed in section 12.6 of the report titled "Mitigation" in particular, that an archaeological watching brief during all ground works would be required.

Consequently, if this application is to be approved, it should be conditional on the agreement and implementation of a developer-funded programme of archaeological works to identify and record any archaeological remains in advance of new construction, or provide for their preservation *in situ*, as per **Policy BH 4 of PPS 6**. Removal of floor levels and foundation slabs, or other overburden and any works that may uncover archaeological remains, must be supervised by a licensed archaeologist. There must be no chasing or removal of services or foundations prior to archaeological evaluation.

If further discussion is required please contact me on 028 90543107.

Gail Howell  
Casework Officer



**NORTHERN IRELAND ENVIRONMENT AGENCY  
HISTORIC MONUMENTS UNIT**

5 - 33 Hill Street  
Belfast BT1 2LA  
Tel: (028) 9023 5000  
Fax: (028) 9054 3111

**For the attention of:** Mr. A Moore D.P.O. Belfast  
**Planning Ref:** O / 2009 / 0792 / F  
**Development:** Land to the rear of 152 Trewmount Road in the townland of Turleenan Moy, Dungannon. Overhead electrical transmission line from Trewmount road Dungannon to border of Republic of Ireland.  
**Our Ref:** SM 11/2 Arm 7,11,12,15,16,19. Tyr 61,62  
**Date:** 26/01/2010

- No site works of any nature or development shall take place until a programme of archaeological work, has been implemented, in accordance with a written scheme and programme prepared by a qualified archaeologist, submitted by the applicant and approved by the Department. The programme should provide for the identification and evaluation of archaeological remains within the site, for mitigation of the impacts of development, through excavation recording or by preservation of remains, and for preparation of an archaeological report.

**Reason:** to ensure that archaeological remains within the application site are properly identified, and protected or appropriately recorded.

- Access shall be afforded to the site at all reasonable times to any archaeologist nominated by the Department to observe the operations and to monitor the implementation of archaeological requirements.

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**Advice :**

For guidance on the preparation of the Written Scheme and Programme of Archaeological Work, which should be submitted for approval at least 4 weeks before work is due to begin, contact:

Northern Ireland Environment Agency – Historic Monuments Unit  
5 - 33 Hill St, Belfast BT1 2LA  
Tel: 028 – 9023 5000 ext 43107

Quote reference: **SM 11/1 Dow 46: 42**

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Northern Ireland Environment Agency – Historic Monuments Unit  
5 - 33 Hill St, Belfast BT1 2LA Tel: 028 – 9023 5000 ext 43107

Gail Howell  
Casework Officer



**Moore, Alan**

Moore, A...

**From:** Wilson, Fiona  
**Sent:** 11 February 2010 17:11  
**To:** 'clem.harvey@nie.co.uk'  
**Cc:** Moore, Alan; Cluskey, Tony  
**Subject:** FW: O/2009/0792/F Electricity interconnector

Hi Clem,

Hi

Re: O/2009/0792/F Electricity interconnector

Re: C

Just to follow up our phone call earlier, as it was a bit difficult to hear!

The Land and Resource Management Unit has received a full copy of this consultation, including maps and environmental statement. The section most relevant to the Land Quality team is Chapter 9 Geology and Soils (volume 2, Page 160).

It is apparent from the text in 9.3.4 that some sort of desk top study and preliminary risk assessment have been carried out, but no detail is included. LRM would require some evidence of what has been considered in the risk assessment.

It is also mentioned that Towers 49 and 72 are close to potentially contaminated sites, but it is not apparent from the text, or Figure 9.1, which sites these are (in terms of specific reference numbers). There is also no discussion of the topographical or hydro-geological setting of these sites, which should be considered in any risk assessment.

To help move things along, Alan Moore would be content if you could provide this information directly to LRM, so that an addendum to the ES would not be required.

If it helps, I would be happy to speak to Aecom directly

Best regards

Fiona

Dr Fiona Wilson  
 NI Environment Agency  
 Land and Resource Management  
 Klondyke Building  
 Cromac Avenue  
 Gasworks Business Park  
 Lower Ormeau Road  
 Belfast  
 BT7 2JA  
 028905 69740  
[www.ni-environment.gov.uk](http://www.ni-environment.gov.uk)  
[fiona.wilson@doeni.gov.uk](mailto:fiona.wilson@doeni.gov.uk)

---

**From:** Wilson, Fiona  
**Sent:** 08 January 2010 12:40  
**To:** Moore, Alan  
**Subject:** O/2009/0792/F Electricity interconnector

Hi Alan

Happy New Year

Re: O/2009/0792/F Electricity interconnector

Thank-you for the consultation you have recently sent LRM.

I note there is a short section in Chapter 9 (Geology and soils) of the environmental statement about potentially contaminated land sites within the vicinity of the overhead route. However, there is no detail as to

12/02/2010

How the consultants have risk assessed the sites, or the environmental setting of the sites (particularly those in the vicinity of towers). Is this detail contained in a separate report? And if so, is it possible for you to forward me a copy? forward me a copy?

Best regards

Fiona

Dr Fiona Wilson  
NI Environment Agency  
Land and Resource Management  
Klondyke Building  
Cromac Avenue  
Gasworks Business Park  
Lower Ormeau Road  
Belfast  
BT7 2JA  
028905 69740  
[www.ni-environment.gov.uk](http://www.ni-environment.gov.uk)  
[fiona.wilson@doeni.gov.uk](mailto:fiona.wilson@doeni.gov.uk)

**Moore, Alan**

**From:** Moore, Alan  
**Sent:** 08 January 2010 15:32  
**To:** Wilson, Fiona  
**Subject:** RE: O/2009/0792/F Electricity interconnector

Fiona, only the following documents have been submitted with the application:

Volume 1 - Non-Technical Summary of ES  
Volume 2 - Main Text of ES  
Volume 3 - Appendices  
Volume 4 - Figures

No separate report has been submitted. Can this matter be addressed by an appropriate negative condition?

Alan Moore  
Special Studies

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**From:** Wilson, Fiona  
**Sent:** 08 January 2010 12:40  
**To:** Moore, Alan  
**Subject:** O/2009/0792/F Electricity interconnector

Hi Alan

Happy New Year

Re: O/2009/0792/F Electricity interconnector

Thank-you for the consultation you have recently sent LRM.

I note there is a short section in Chapter 9 (Geology and soils) of the environmental statement about potentially contaminated land sites within the vicinity of the overhead route. However, there is no detail as to how the consultants have risk assessed the sites, or the environmental setting of the sites (particularly those in the vicinity of towers). Is this detail contained in a separate report? And if so, is it possible for you to forward me a copy?

Best regards

Fiona

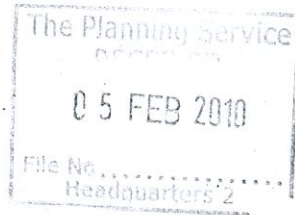
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Dr Fiona Wilson  
NI Environment Agency  
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[fiona.wilson@doeni.gov.uk](mailto:fiona.wilson@doeni.gov.uk)

08/01/2010



Northern Ireland Environment Agency  
Natural Heritage  
Klondyke Building  
Cromac Avenue  
Gasworks Business Park  
BELFAST  
BT7 2JA  
Email: [planningreminders@doeni.gov.uk](mailto:planningreminders@doeni.gov.uk)



Mr A Moore  
Planning Service  
Planning Service Headquarters  
Millennium House  
17-25 Great Victoria Street  
Belfast  
BT2 7BN

Date: 3 February 2010  
Telephone: 028 905 69615  
Your Ref: O/09/0792  
Our Ref: 17178-1

Full

RE: Erection of a single circuit 400kv overhead line (33.9km) from a new 400/275KV substation at Trewmount Road Moy to the border where it connects with the proposed network in the Republic of Ireland

Location: Land to the rear of 152 Trewmount Road in the townland of Turleenan Moy Dungannon. Overhead electrical transmission line detailed in Form P1(NIE) application attached

Dear Mr Moore

I refer to your consultation letter for the above planning application which was received in this office on 6 January 2010. We acknowledge receipt of an Environmental Statement (ES).

### Position

NIEA, Natural Heritage has **no objection** to the proposed development **subject to conditions** which would overcome our concerns.

### Appraisal of the proposal: Natural Heritage Interest

The Environmental Statement provides a report of ecological assessment of habitats and species present along the interconnector route. We note that bat surveys, as agreed with NIEA: Natural Heritage, are ongoing, and bat roosts, flightlines and feeding areas, and 2010 results will be issued in a separate report to NIEA: Natural Heritage.

We are content with the quality of the ecological reports contained within the ES, and consider that a number of mitigation measures are required to minimise the impact of the proposal on local biodiversity.

### Recommendations

Should approval be granted, the following Conditions should be attached to the Decision Notice.



## Conditions

Any removal of hedgerow trees, cutting of hedgerows and woodland clearance shall take place outside the bird breeding season which lasts from the 1<sup>st</sup> of March to the 31<sup>st</sup> of August.

Reason: To protect breeding birds and protect the biodiversity of the site.

Deflectors shall be inserted on lines that cross the Blackwater River Valley.

Reason: To reduce the risk of collision to swans.

Works in the vicinity of watercourses will avoid contact with the watercourse surface and bed.

Reason: To minimise impacts to riverine habitats.

Once all mature trees to be removed and lopped have been identified, any potential roost sites shall be inspected for the presence of bats by an experienced bat worker or surveyor on the day of felling. If evidence of bats is found during inspection, all work shall cease immediately and advice shall be sought from the Northern Ireland Environment Agency Wildlife Officer.

Reason: To minimise the impact of the proposal on bats

## Informatives

The applicant's attention is drawn to The Conservation (Natural Habitats, etc) Regulations (Northern Ireland) 1995 (as amended), which states that it is an offence to deliberately capture, injure or kill a wild animal of a European protected species included in Schedule II of these Regulations, which includes all species of bat. It is also an offence;

- (a) Deliberately to disturb such an animal while it is occupying a structure or place which it uses for shelter or protection;
- (b) Deliberately to disturb such an animal in such a way as to be likely to;
  - (i) Affect the local distribution or abundance of the species to which it belongs;
  - (ii) Impair its ability to survive, breed or reproduce, or rear or care for its young; or
  - (iii) Impair its ability to hibernate or migrate;
- (c) Deliberately to obstruct access to a breeding site or resting place of such an animal; or
- (d) To damage or destroy a breeding site or resting place of such an animal.

To avoid any breach of The Conservation (Natural Habitats, etc) Regulations (Northern Ireland) 1995 (as amended), all mature trees and buildings to be removed should be checked on the day of felling for the presence of bats, by an experienced bat worker or surveyor.

If there is any evidence of bats on site, all works must cease immediately and further advice must be sought from the NIEA Wildlife Officer (Tel: 02890 569623), as a European Protected Species (EPS) License may be required.





The applicant's attention is drawn to The Conservation (Natural Habitats, etc.) Regulations (Northern Ireland) 1995 (as amended), which states that it is an offence to deliberately capture, injure or kill a wild animal of a European protected species included in Schedule II of these Regulations, which includes otters (*Lutra lutra*). It is also an offence;

- (a) Deliberately to disturb such an animal while it is occupying a structure or place which it uses for shelter or protection;
- (b) Deliberately to disturb such an animal in such a way as to be likely to;
  - (i) affect the local distribution or abundance of the species to which it belongs;
  - (ii) Impair its ability to survive, breed or reproduce, or rear or care for its young; or
  - (iii) Impair its ability to hibernate or migrate;
- (c) Deliberately to obstruct access to a breeding site or resting place of such an animal; or
- (d) To damage or destroy a breeding site or resting place of such an animal.

If there is evidence of otter activity on the site, all work must cease immediately and further advice must be sought from the Wildlife Officer, Northern Ireland Environment Agency, Klondyke Building, Cromac Avenue, Gasworks Business Park, Lower Ormeau Road, Belfast. BT72JA. Tel. 02890 569623

The applicant's attention is drawn to the Wildlife (Northern Ireland) Order 1985 which indicates that it is an offence to intentionally kill, injure or take any wild animal included in Schedule 5 of this Order which includes the badger (*Meles meles*). It is also an offence to disturb these animals or damage or obstruct access to their place of refuge, or damage or destroy anything which conceals or protects their place of refuge.

If there is evidence of badger on the site, all work must cease immediately and further advice must be sought from the Wildlife Officer, Northern Ireland Environment Agency, Klondyke Building, Cromac Avenue, Gasworks Business Park, Lower Ormeau Road, Belfast. BT72JA.

The applicant's attention is drawn to the Wildlife (Northern Ireland) Order 1985 which indicates that it is an offence to intentionally kill, injure or take any wild animal included in Schedule 5 of this Order which includes the smooth newt (*Triturus vulgaris*). It is also an offence to disturb these animals or damage or obstruct access to their place of refuge, or damage or destroy anything which conceals or protects their place of refuge.

If there is evidence of newts on the site, all work must cease immediately and further advice must be sought from the Wildlife Officer, Northern Ireland Environment Agency, Klondyke Building, Cromac Avenue, Gasworks Business Park, Lower Ormeau Road, Belfast. BT72JA.

The applicant's attention is drawn to the Wildlife (Northern Ireland) Order 1985 which states that it is an offence to intentionally kill, injure or take any wild bird. It is also an offence to take or damage or destroy the nest or egg(s) of these birds or to disturb bird(s) while they are building, in or at a nest, or whilst they have dependant young. Where the bird is included in Schedule 1 of the Order any offence is liable to a special penalty.





Andrew McIntosh

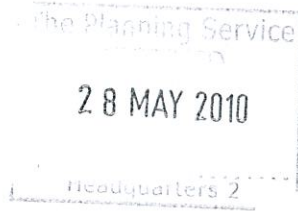
Andrew McIntosh  
On behalf of NIEA: Natural Heritage



An Agency within the Department of the  
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INVESTOR IN PEOPLE



Mr A Moore  
Planning Service  
Planning Service Headquarters  
Millennium House  
17-25 Great Victoria Street  
Belfast  
BT2 7BN

**Date: 26 May 2010**  
**Telephone: 028 905 69615**  
**Your Ref: O/09/0792**  
**Our Ref: 17178-2,4,5 and 6**

**Full**

**RE: Erection of a single circuit 400kv overhead line (33.9km) from a new 400/275KV substation at Trewmount Road Moy to the border where it connects with the proposed network in the Republic of Ireland**

**Location: Land to the rear of 152 Trewmount Road in the townland of Turleenan Moy Dungannon Co Tyrone and overhead electrical transmission line from Trewmount Road Moy to the townlands of Crossreagh and Crossbane Co Armagh**

Dear Mr Moore

I refer to your consultation letters for the above planning application which was received in this office on 9, 15 and 20 April 2010 and 13 May 2010. We acknowledge the receipt of objection letters.

We have considered the issues related to ecology which have been raised in the objection letters and request the submission of information which was omitted from the Environmental Statement.

We note that the numbering sequence of target notes in Appendix D1 of Volume 3 of the Environmental Statement does not include the following target notes (TN) : TN 1-5, 9, 10, 16-21, 23-28, 30, 33-37, 40-42 and 48-52. We consider that these TNs should be submitted to NIEA: Natural Heritage for consideration. We do note that the TNs included in the Environmental Statement relate to those areas within the line route study area which are of nature conservation value.

The badger survey does not provide a map outlining the location of recorded setts within the site. A report should be submitted of this survey and presented in the following format:

- The date and time of the survey and the qualifications of the surveyor should be included in the survey report.
- The survey should establish whether or not Badgers have established sett(s) (active or inactive) or use the area for foraging. All evidence of use by Badgers found, for example latrines, hair caught on wire or bedding should be included.



- The information should be presented in a written report and must include large scale maps at 1:500 scale for those areas in the line route study area where badger setts were recorded.

Once this information has been provided NIEA: Natural Heritage can provide further consideration to this proposal.

Andrew McIntosh

**Andrew McIntosh**  
**On behalf of NIEA: Natural Heritage**



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04 JAN 2010

Date: 27 January 2009  
Telephone: 028 905 69615  
Your Ref: O/08/0822  
Our Ref: 16506-1

PAD

RE: PAD for proposed North South Electricity Interconnector

Location: Lands within Armagh District Council and Dungannon Borough Council

Dear Mr Moore

I refer to your consultation letter for the above planning application which was received in this office on 6 January 2009. We acknowledge receipt of a draft Environmental Statement (ES) submitted in CD-ROM format.

### Position

NIEA, Natural Heritage considers that there is **insufficient information** provided at present with the application to fully assess the importance of natural heritage interests. It is unlikely that we will object to this proposal on nature conservation grounds, subject to appropriate conditions. However as some surveys are on-going, and we consider further surveys to be required, we wish to defer full comment until we have all the information which we consider to be relevant.

### Appraisal of the proposal: Natural Heritage Interest

The scheme covers a large geographical area and includes a number of habitats present, as highlighted in Appendix H1 of the ES. Some of these habitats may be used by species which are protected under The Wildlife (Northern Ireland) Order 1985 (as amended).

We note that the nearest recorded badger sett is located 40m from the nearest line route. Any works closer than 25m to badger setts will require a licence from the NIEA: Natural Heritage Wildlife Officer. Evidence of otter activity has been provided.

We note the bird surveys presented in the ES. We further note that additional bird surveys are scheduled for 2008-2009 and will provide comment on this upon receipt of this information.

We note that bat surveys have not been undertaken at this stage, rather an assessment of the potential use of habitat features by bats. We consider that there may be mature trees within the line route which support roosting bats, and these should be subject to a bat survey.



We are concerned that there may be potentially suitable habitat for newts within parts of the proposed line route. We note that Target Notes 8, 32 and 39, for example, may be habitat which is suitable for newts, and consider that a newt survey is required.

#### Additional Information Required

- Bat roost survey of mature trees along the route
- Newt survey of wetland habitats along the route
- Presentation of the additional ornithological survey work currently being undertaken.

Once this additional survey work has been presented in the ES, NIEA, NH will be in a position to give further consideration to this proposal.

Andrew Mc Intosh  
On behalf of NIEA: Natural Heritage



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INVESTOR IN PEOPLE





Mr A Moore  
Planning Service  
Planning Service Headquarters  
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Belfast  
BT2 7BN

Date: 29 April 2010  
Telephone: 028 905 69615  
Your Ref: O/09/0792  
Our Ref: 17178-3

04 MAY 2010

**Full**

**RE: Erection of a single circuit 400kv overhead line (33.9km) from a new 400/275KV substation at Trewmount Road Moy to the border where it connects with the proposed network in the Republic of Ireland**

**Location: Land to the rear of 152 Trewmount Road in the townland of Turleenan Moy Dungannon Co Tyrone and overhead electrical transmission line from Trewmount Road Moy to the townlands of Crossreagh and Crossbane Co Armagh**

Dear Mr Moore

I refer to your consultation letter for the above planning application which was received in this office on 12 April 2010. We acknowledge receipt of a submission by Michael Burrows Associates on behalf of SEAT dated 19 February 2010.

On page 8 of the submission a formal request has been made under the Environmental Information Regulations (NI) 2004 for details of any formal or informal advice or agreements limiting or forming the scope and methodologies to be employed during ecological surveys carried out by the applicant in relation to this proposal.

Accordingly we submit with this letter the following information:

1. Copy of an e-mail from Cormac Loughran of AECOM dated 21 May 2009 providing a bat survey methodology for the proposal.
2. Draft bat survey methodology (21 May 2009).
3. Letter dated 10 August 2009 detailing the bat survey methodology which was detailed at a meeting held on 10 June 2009.
4. Letter from NIEA: Natural Heritage to Planning Service dated 27 January 2009 (This letter has not been presented in Appendix A of Volume 3 of the Environmental Statement.

Andrew McIntosh  
On behalf of NIEA: Natural Heritage





Mr A Moore  
Planning Service Headquarters  
Millennium House  
17-25 Great Victoria Street  
Belfast  
BT2 7BN

18 May 2010



Your Ref: O/2009/0792/F  
Our Ref: WMU/PC/ 17901-1

Dear Mr A Moore

**Type: Full**

**RE: Erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Moy, to the townlands of Crossreagh and Crossbane, Co Armagh where it would connect with the proposed network in the RoI.**

**Location: Land to the rear of 152 Trewmount Road in the townland of Turleenan, Moy, Dungannon and overhead electrical transmission line from Trewmount Road, Moy to the townlands of Crossreagh and Crossbane, Co Armagh**

The response from the Water Management Unit (WMU) of Northern Ireland Environment Agency (NIEA) to the above planning application is as follows:-

Chapter 8 of the Environmental Statement for this proposed development details the expected impacts on the aquatic environment and the proposed mitigation required.

The following points should be highlighted to the applicant:

Discharge consent under the terms of the Water (Northern Ireland) Order 1999 will be required for the discharge of all site drainage and sewage effluent from the proposed development. The applicant should be aware that there is no guarantee that discharge consent will be granted, as a number of site specific factors need to be taken into account in assessing the suitability of the proposed means of effluent disposal.

No development should take place on-site until the method of site drainage/sewage effluent disposal has been agreed in writing with NIEA Water Management Unit.

An application form for consent to discharge effluent under the Water (NI) Order 1999 can be obtained by contacting NIEA WMU at the above address, or by visiting our web site at:-

[http://www.ni-environment.gov.uk/water-home/regulation\\_of\\_discharges\\_industrial/industrial\\_and\\_private\\_sewage\\_2.htm](http://www.ni-environment.gov.uk/water-home/regulation_of_discharges_industrial/industrial_and_private_sewage_2.htm)

Consent to discharge under the terms of the Water (Northern Ireland) Order 1999 may also be required for the discharge of site drainage during the construction phase of the proposed development. The applicant will need to contact NIEA Water Management Unit to obtain the necessary application forms. Alternatively, the applicant may wish to consider the implementation of SUDS (Sustainable Urban Drainage System) to deal with this drainage, the design of which must be agreed in advance with the Department.

Dewatering may be required during the construction and excavation phase of this proposal, depending on the geological settings of these works. If water is encountered, an appropriate





abstraction/impoundment licence and consent for discharge may be required from Northern Ireland Environment Agency.

The applicant has identified that dewatering activities may lower the watertable. The applicant should therefore be advised to conduct a water features survey of the proposed site to ensure that no wells or abstractions in the area will be affected by the applicants activities.

WMU feels that the mitigation measures mentioned in Volume 2, Chapter 8 of the Environmental Statement are acceptable. However, it should be noted that all oils and fuels should be held within impermeable containment. The applicant should be made aware of the forthcoming Control Of Pollution (Oil Storage) Regulations (NI) 2010 which are due to come into force on 31 October 2010. A key requirement of the Regulations is that oil storage containers must have a secondary containment system (a bund, which is an outer wall or enclosure designed to contain the contents of an inner tank, or a drip tray) to ensure that any leaking oil is contained and does not enter the aquatic environment. Guidance on how the forthcoming Regulations will apply to your development can be found at: <http://www.netregs.gov.uk> . Also, all concrete washings should be to impermeable containment for disposal offsite via licensed waste contractor.

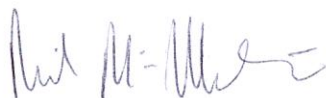
NIEA, WMU expects to agree a Method of Work with the approved contractor and are available for consultation once the contractor has been approved. WMU Pollution Prevention team can be reached on 02892 623 173 to discuss the matter further.

WMU would highlight to the applicant that it is an offence under the Water (Northern Ireland) Order 1999 to discharge or deposit, whether knowingly or otherwise, any poisonous, noxious or polluting matter so that it enters a waterway or water in any underground strata.

The applicant should ensure that measures are in place to prevent pollution of surface or ground water as a result of the activities on site, both during construction and thereafter.

If you have any queries relating to any aspect of this letter, please do not hesitate to contact me on the telephone number listed at the head of this letter.

Yours Sincerely



**Neil McAllister**  
Water Management Unit





**Moore, Alan**

---

**From:** Doyle, Carey [carey.doyle@aecom.com]  
**Sent:** 30 March 2010 13:28  
**To:** Wilson, Fiona; Cluskey, Tony  
**Cc:** Harvey Clem; Sutton, Brian; Moore, Alan  
**Subject:** FW: O/2009/0792/F Electricity interconnector  
**Attachments:** Technical Note Contaminated Land Interconnector.pdf; Figure 9.1 Contaminated Land Sites & Mine Shafts.pdf

Hello Fiona and Tony,

Please find attached a technical note clarifying the assessment undertaken on potential contaminated land sites which is contained in the Tyrone Cavan Interconnector ES. This is provided in response to your queries below.

If you have any further questions don't hesitate to get in touch with myself or with Brian Sutton.

Kind Regards,  
Carey

**Carey Doyle** BA MA AIEMA  
Principal Environmental Scientist, Environment  
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**From:** Harvey Clem [mailto:Clem.Harvey@nie.co.uk]  
**Sent:** 11 February 2010 17:25  
**To:** Wilson, Fiona  
**Cc:** Moore, Alan; Cluskey, Tony; Doyle, Carey  
**Subject:** RE: O/2009/0792/F Electricity interconnector

Thanks Fiona  
I have copied Carey Doyle AECOM into this email and she will talk to you directly as requested.  
Thank you for your cooperation.  
Regard  
Clem

*Clem Harvey*  
*Project Manager Transmission Interconnection*  
☎ **Desk: +44 (0)28 90958107**  
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**Northern Ireland Electricity plc**

30/03/2010



Registered in Northern Ireland  
Registered No: NI26041  
Registered Office: 120 Malone Road, Belfast, BT9 5HT

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**From:** Wilson, Fiona [mailto:Fiona.Wilson@doeni.gov.uk]  
**Sent:** 11 February 2010 17:11  
**To:** Harvey Clem  
**Cc:** Moore, Alan; Cluskey, Tony  
**Subject:** FW: O/2009/0792/F Electricity interconnector

Hi Clem,

Re: O/2009/0792/F Electricity interconnector

Just to follow up our phone call earlier, as it was a bit difficult to hear!  
The Land and Resource Management Unit has received a full copy of this consultation, including maps and environmental statement. The section most relevant to the Land Quality team is Chapter 9 Geology and Soils (volume 2, Page 160).

It is apparent from the text in 9.3.4 that some sort of desk top study and preliminary risk assessment have been carried out, but no detail is included. LRM would require some evidence of what has been considered in the risk assessment.

It is also mentioned that Towers 49 and 72 are close to potentially contaminated sites, but it is not apparent from the text, or Figure 9.1, which sites these are (in terms of specific reference numbers). There is also no discussion of the topographical or hydro-geological setting of these sites, which should be considered in any risk assessment.

To help move things along, Alan Moore would be content if you could provide this information directly to LRM, so that an addendum to the ES would not be required.

If it helps, I would be happy to speak to Aecom directly

Best regards

Fiona

Dr Fiona Wilson  
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---

**From:** Wilson, Fiona  
**Sent:** 08 January 2010 12:40  
**To:** Moore, Alan  
**Subject:** O/2009/0792/F Electricity interconnector

Hi Alan

Happy New Year

Re: O/2009/0792/F Electricity interconnector

Thank-you for the consultation you have recently sent LRM.

30/03/2010



I note there is a short section in Chapter 9 (Geology and soils) of the environmental statement about potentially contaminated land sites within the vicinity of the overhead route. However, there is no detail as to how the consultants have risk assessed the sites, or the environmental setting of the sites (particularly those in the vicinity of towers). Is this detail contained in a separate report? And if so, is it possible for you to forward me a copy?

Best regards

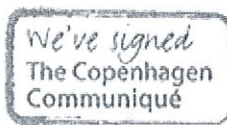
Fiona

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# Technical Note

**AECOM**

Project:	<b>Tyrone - Cavan Interconnector</b>	Job No:	<b>60032220</b>
Subject:	<b>Potential Contaminated Land Impacts</b>	Date:	<b>22 Feb 2010</b>
Prepared by:	<b>Dr. Brian Sutton</b>	Date:	<b>09 March 2010</b>
Checked by:	<b>Phillip Smart</b>	Date:	<b>30 March 2010</b>
Approved by:	<b>Carey Doyle</b>		

## 1. Introduction

- a. This technical note is provided as clarification on the potential contaminated land impacts arising from the Tyrone – Cavan Interconnector. This note reproduces information contained in the Environmental Statement (ES) for the proposed development and provides clarification on the assessment contained in the ES.
- b. Contaminated land is defined as land where substances are present in sufficient quantities or concentrations to cause or likely to be causing harm, directly or indirectly, to humans or the environment.
- c. An assessment to determine the potential presence and extent of contaminated land includes the following elements:
  - Identification of potential sources of contamination;
  - Identification of potential receptors that might be adversely affected by the contamination; and
  - Identification of potential pathways between the source(s) and the receptor(s).
- d. If all three (source, receptor, and pathway) co-exist, then a pollutant linkage has been identified and there is a potential for the contamination to represent a risk and for the site to be considered contaminated.
- e. A number of sites have been identified from the NIEA Contaminated Land database as having a potential for land contamination in the immediate area of the proposed Tyrone Cavan Interconnector. Risk categories have not been assigned to the majority of these sites. It should be noted that contaminated land sites provided by NIEA are derived from a pilot study, and are therefore not likely to be completely comprehensive, and have not been fully validated.
- f. Sites are listed in Table 9.3 below (reproduced from the ES) and shown in Figure 9.1, which was issued with the ES. Figure 9.1 is appended here for reference.

Table 9.3 Potential contaminated land sites within 1km of the line route

SITE NO (FIG 9.1)	NIEA SITE NUMBER	GRID REFERENCE	ADDRESS (TOWNLAND)	DESCRIPTION
1	DN179/010	H833607	Culnagrew TD	Railway land
2	DN100/011	H848604	Kinego TD	Railway land
3	DN179/011	H837603	Dungorman TD	Reclaimed land (quarry)
4	DN180/020	H842596	Dungorman TD	Textiles
5	DN179/013	H831578	Drumgold TD	Reclaimed land (gravel pit)

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SITE NO (FIG 9.1)	NIEA SITE NUMBER	GRID REFERENCE	ADDRESS (TOWNLAND)	DESCRIPTION
6	DN180/016	H846575	Lisbroan TD	Reclaimed land (gravel pit)
7	DN179/008	H839569	Drumgrannon TD	Mineral workings (gravel pit)
8	DN179/002	H832561	Corestown TD	Mineral workings (quarry)
9	DN198/009	H836540	Derryoghill TD	Reclaimed land (gravel pit)
10	DN198/015	H828538	Drumlee TD	Textiles (flax mill)
11	DN198/016	H827538	Tobermesson Glebe TD	Reclaimed land (quarry)
12	DN198/011	H830534	Drumlee TD	Reclaimed land (gravel pit)
13	DN198/003	H830524	Tullylearn TD	Mineral workings
14	DN198/008	H835517	Tullydowey TD	Chemical works
15	AH190/011	H824512	Drumduff TD	Textiles
16	AH217/007	H822461	Lisdown TD	Railway land
17	AH234/021	H803394	Lisginn TD	Reclaimed land (quarry)
18	AH234/003	H812393	Lisginn TD	Mineral workings
19	AH234/022	H792373	Drummond TD	Mineral workings
20	AH234/017	H796017	Drummond TD	Textiles
21	AH234/016	H798366	Drummond TD	Textiles
22	AH234/006	H808361	Drummond TD	Textiles
23	AH234/007	H793357	Sheetrim TD	Reclaimed land (quarry)
24	AH249/016	H784341	Tullyhirm TD	Reclaimed land (quarry)
25	AH249/005	H799337	Cargallsgorran TD	Mineral workings
26	AH249/015	H807332	Carryhugh TD	Metal mining & smelting
27	AH249/017	H808328	Crossnamoyle TD	Food preparation & processing
28	AH249/002	H803319	Derrynoose Road	Petrol station/Food storage
29	AH249/014	H796315	Drummeland TD	Metal mining & smelting
30	AH249/003	H787323	Listarkelt Road	Petrol station/fuel storage
31	AH249/001	H798296	Crossbane TD	Mineral workings
32	AH249/012	H794291	Crossbane TD	Reclaimed land (quarry)
33	AH263/007	H804267	Crossbane TD	Reclaimed land (quarry)

## 2. General Assessment

The assessment of the risk that a contaminated land site poses to the environment follows the staged process outlined in *Guidelines for Environmental Risk Assessment and Management* (Defra 2000). Key stages in this process are hazard identification, identification of potential consequences arising from a hazard, estimating the magnitude of those consequences at both spatial and temporal scales, estimating the probability of those consequences and evaluating the significance of the consequences. The Guidelines define hazard as a property or situation that in particular circumstances could lead to harm.

None of the towers or the substation physically disturbs an identified contaminated land site. (Details of individual tower locations can be provided to NIEA if required). Construction of the towers will not



introduce any contaminants into the wider environment, since the use of concrete will be limited to the tower bases.

Details of construction methods are contained in Chapter 5 of the Tyrone - Cavan Interconnector Environmental Statement.

The potential impacts of the towers and substation on local watercourses and ground water are outlined in the Water Quality Assessment (Chapter 8) contained in the Environmental Statement. Residual impacts after mitigation are considered to be minor adverse in the worst case.

In the present case, therefore, identification of the consequences arising from the hazards identified in Table 9.3 requires identification of the pathways by which contaminants from the listed sites may be affected by tower or substation construction or operation, with a consequent potential for release into the wider environment. Without a pollutant linkage, there is not a risk, even where a contaminant is present. The restricted volume and depth of excavation required for the construction of each tower base, together with the absence of direct physical impact on known contaminated land sites, suggests that pathways for contaminants to reach the tower sites will be determined by the potential for downslope movement of the contaminants in groundwater and/or surface water. As detailed above, the general presence of a clay-rich cover of superficial deposits provides a barrier to the movement of soluble contaminants to the underlying groundwater, thereby minimising the potential impacts on groundwater.

The nearest identified site to the proposed substation site is a disused gravel pit (site 6, Table 9.3), separated from the substation site by a minor watershed, and at a distance of 1.2km. The potential for contaminated land issues to arise with regard to the substation site is therefore not further considered.

The potential for pathways to exist between individual contaminated land sites and tower locations was considered. The distance between sites and tower locations was computed (Table 9.4 in the ES, reproduced below). Site maps were examined in order to determine whether there were any geomorphological features, for example watercourses, that had the potential to channel mobile contaminants between contaminated land sites and tower locations. In the absence of these features, those sites greater than 0.5km from a tower site were discounted as potential sources of contaminants that would be affected by tower construction, since it is likely that any mobile contaminants would be so diffuse over this distance that any significant adverse impacts on the environment would be highly unlikely. Those sites which are downslope of projected tower locations were discounted as potential sources of contaminants that would be likely to be affected by tower construction, since any mobile contaminants would be transported away from the excavation sites. Sites that are separated from tower locations by watercourses were also discounted, since the most efficient course for contaminant discharge would be along the watercourse. Sites separated from tower locations by local watersheds, or are on slopes that direct surface water and groundwater flow away from tower locations, are discounted since the flow of potential contaminants would be directed away from the tower location.

In addition to specific sites, it should be noted that there is a general potential for pollution from entrained agricultural chemicals on present and past agricultural land, and from buried material which may occur almost anywhere.

The northern section of the line route is underlain by the Carboniferous Limestones (the Armagh and Tyrone Groups) and the Sherwood Sandstone (the Derrycreevy Sandstone), both of which are regarded as important aquifers. The southern third of the line route is underlain by Ordovician and Silurian rocks, which have a low permeability and limited significance for groundwater resources.

It is likely that all the strata along the route provide baseflow discharge to the adjacent surface watercourses and hence the groundwater quality is a significant resource which needs to be protected.

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Along much of the line route, the bedrock is covered by a variable thickness of superficial drift deposits, which are dominated by low permeability boulder clay. The surface boulder clay forms a barrier to vertical groundwater movement and hence protects the water quality in the underlying strata from contamination resulting from surface activities. Accordingly, it is considered that the groundwater in the strata beneath the route is at negligible risk from the presence of any contaminated ground along the route.

**Table 9.4: Assessment criteria for impacts of tower locations on contaminated land sites**

SITE NO (FIG 9.1)	NEAREST TOWER NO.	DISTANCE (KM) FROM TOWER	ASSESSMENT
1	8	2.191	Distant from tower (>0.5km)
2	4	2.423	Distant from tower (>0.5km)
3	8	2.096	Distant from tower (>0.5km)
4	4	1.665	Distant from tower (>0.5km)
5	10	0.244	See text
6	6	0.359	See text
7	7	0.957	Distant from tower (>0.5km)
8	16	0.597	Distant from tower (>0.5km)
9	23	0.507	Distant from tower (>0.5km)
10	24	0.226	Downslope of tower
11	24	0.33	Downslope of tower
12	25	0.178	Downslope of tower
13	29	0.148	Downslope of tower
14	31	0.385	Flow directed away from tower (see text)
15	30	0.737	Distant from tower (>0.5km)
16	49	0.061	Downslope of tower (see text)
17	72	0.066	Downslope of tower (see text)
18	68	1.29	Distant from tower (>0.5km)
19	78	0.673	Distant from tower (>0.5km)
20	96	0.658	Distant from tower (>0.5km)
21	80	0.149	Distant from tower (>0.5km)
22	81	0.866	Distant from tower (>0.5km)
23	83	0.511	Distant from tower (>0.5km)
24	90	0.657	Distant from tower (>0.5km)
25	92	0.887	Distant from tower (>0.5km)
26	92	1.681	Distant from tower (>0.5km)
27	93	1.798	Distant from tower (>0.5km)
28	96	1.345	Distant from tower (>0.5km) (see text)
29	97	0.66	Distant from tower (>0.5km) (see text)
30	95	0.304	Downslope of tower (see text)

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 BT2 8BG  
 United Kingdom



**Moore, Alan**

---

**From:** Peoples, Lynne [Lynne.Peoples@rspb.org.uk]  
**Sent:** 26 March 2010 16:42  
**To:** Moore, Alan  
**Cc:** Ferry, Claire  
**Subject:** RSPB response to the NIE interconnector Tyrone-Cavan Environmental Statement (O/2009/0792/F)

Hello Alan,

Thank you for sending the Environmental Statement (ES) for the Tyrone-Cavan interconnector (O/2009/0792/F) to the RSPB for comment.

We note that designated sites and non-designated sites of nature conservation concern which were highlighted in the scoping stage have been avoided. We also note that mitigation put forward in section 10.6 and 19.7 of the ES are all relevant to the findings of the ES and would go some way to reduce the environmental impacts of the proposal.

Visual interpretation of ornithological survey information in the ecology section of the ES (section 10) would have been very useful as an additional aid to the written material and as responses are expected within a four week period.

We have placed our comments on the content of the ES below and ask for these to be considered as planning conditions, should approval be granted.

**Barn owls**

We are aware of unconfirmed barn owl sightings along parts of the route and a concentration of these lie just south of Benburb. Barn owls are of a high conservation concern in Ireland and are also a Schedule 1 species as listed under the Wildlife (NI) Order 1985, protected by special penalty. They nest in mature trees such as beech or oak and are a nocturnal species.

We therefore recommend that any parts of H8149, H8150, H8249, H8250, H8349 and H8350 in which the route passes, are checked for barn owl nest sites under the relevant license. We also recommend any semi-mature to mature trees to be pollarded or removed along the length of the route from the sub-station site are checked for nest sites prior to any works.

If nest sites are located then appropriate mitigation should be applied and approved by the Department.

Any nest sites should be reported to the RSPB as we are currently leading on a barn owl survey across Northern Ireland along with the Ulster Wildlife Trust (UWT).

**Bird breeding season**

The timing of works should be clearly defined within the mitigation with specific dates (01 March to 31 August). An ecological clerk of works should oversee all proposed works during February and September prior to any works, to protect early and late nesters.

**Bird deflectors**

These should be placed at all the potential whooper swan crossing points along the route as highlighted at the ES stage.

**Post construction Monitoring**

Should the proposal go ahead we recommend that the post construction collision monitoring is set as a planning condition. Any areas found to be causing casualties should be flagged and additional bird deflectors placed along these parts within a specific time period.

Please contact myself direct with any related queries.

Kind regards  
Lynne

29/03/2010



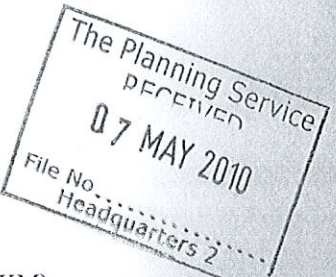


**Our Ref** D/09/029

**Planning Ref** O/09/0792

**Date:** 05 May 2010

## Comments on Planning Application



**LOCATION** LAND TO REAR OF 152 TREWMOUNT ROAD TURLEENAN MOY  
DUNGANNON

**PROPOSAL** ERECTION OF A SINGLE CIRCUIT 400 KV OVERHEAD LINE (33.9KM)  
FROM A NEW 400/275KV SUBSTATION AT TREWMOUNT ROAD, MOY

### COMMENTS

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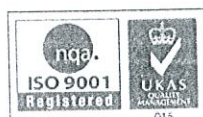
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Page 1 of 4

Riverside House | Tower Hill Complex |  
t: 028 3751 5800 | f: 028 3751 5801





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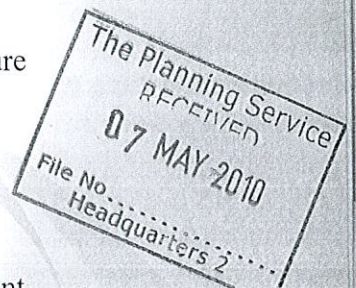
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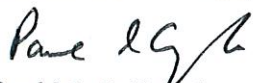
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5.& 6. Environmental Health recognises that stress and anxiety are in themselves adverse health effects. The public perception of a development proposal is a matter for consideration by Planning Service.

7. During pre-application discussions Environmental Health have identified the need for appropriate consideration of new applications, replacement dwellings and the like which lie in the vicinity of the proposed interconnector. Should Planning Service be aware of any committed development closer to the proposed interconnector than those dwellings considered in the Environmental Statement then the assessment should be reconsidered to ensure that the ICNIRP public exposure limits are not exceeded.



Paul McCullough

Principal Environmental Health Officer (Environmental Protection)

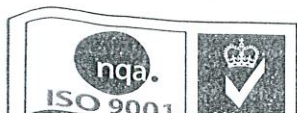
Southern Group Environmental Health Committee

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Our Ref D/09/029

Planning Ref O/09/0792

Date: 27 April 2010



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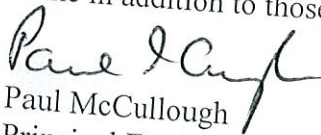
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D/09/029



Date: 4th January 2010  
Planning Application Number: O/2009/0792/F  
(Please quote at all times)

### Headquarters

Mr D Lindsay  
Southern Group Public Health Inspectorate  
Riverside House  
Towerhill Complex  
ARMAGH  
BT61 9EG

Millennium House  
17-25 Great Victoria Street  
Belfast  
BT2 7BN

Please contact: Mr A Moore  
Direct Line: 028 90416886

Dear Mr Lindsay

Location:	<b>Land to the rear of 152 Trewmount Road in the townland of Turleenan, Moy, Dungannon. Overhead electrical transmission line detailed in Form P1(NIE) application Attached.</b>	Date of Application:	<b>15th December 2009</b>
		OS Sheet No.:	<b>263</b>
		Grid Reference:	<b>8219042937</b>
		Application Type:	<b>Full</b>
		Grid Square:	<b>H</b>

Proposal: **Erection of a single circuit 400kV overhead line (33.9km) from a new 400/275kV substation at Trewmount Road, Moy to the border where it connects with the proposed network in the Republic of Ireland.**

Applicant:

Agent: **Northern Ireland Electricity Plc**

Consultation Reason: Environmental Statement + planning application

**SITE HISTORY: O/2008/0822/Q**

Enclosed is a copy of the environmental statement and application details submitted in respect of the above proposal.

In determining the application, the Department will take account of the environmental statement and any representations made. In order that the Department should be in a position to give full consideration to the matter and in accordance with Regulation 14(1) of the Planning (Environmental Impact Assessment) Regulations (Northern Ireland) 1999 I would be grateful if you would forward comments to this address before 1<sup>st</sup> February 2010.

Yours sincerely

**For Special Studies**  
An Agency within the Department of the  
**Environment**  
www.doeni.gov.uk



Tel. (028) 9041 6700 Fax. (028) 9041 6983  
Email. [planning.service.hq@doeni.gov.uk](mailto:planning.service.hq@doeni.gov.uk)  
Web. [www.planningni.gov.uk](http://www.planningni.gov.uk)



**DC5010MW**  
INVESTOR IN PEOPLE





Group Chief Environmental Health Officer: **SAM KNOX**

Our Ref D/09/029

Planning Ref O/09/0792

Date: 29 January 2010

01 FEB 2010

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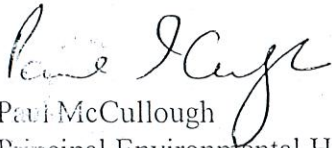
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**Noise** (includes vibration)

Does the proposal have the potential to adversely impact on amenity due to noise?  Addressed in ES. Informative requested.

Is the proposal likely to be adversely affected by noise?  No

**Air Pollution**

Does the proposal have the potential to adversely impact on amenity due to air pollution (eg odour, dust)?  No

Is the proposal likely to be adversely affected by air pollution?  No

**General Amenity**

Does the proposal have the potential to adversely impact on amenity due to vermin, insect or litter problems etc?  No

Is the proposal likely to be adversely affected by vermin, insects or litter etc?  No

**Ambient Air Quality**

Does the proposal have the potential to have an adverse impact on ambient air quality?  No

Is the proposal likely to be adversely affected by ambient air quality?  No

**Contaminated Land**

To the best of the officer's knowledge is the site potentially contaminated either as a result of:

a previous use of the site  Addressed in ES

use, or a previous use, of adjacent land where there may be the possibility of migration of contaminants  Addressed in ES

naturally occurring levels of contamination, excluding Radon?  No

**Other Considerations**

Does the proposal have the potential to adversely impact on local amenity due to other Environmental  EMF addressed in ES. Informative requested.

Is the application for proposal accompanied by Environmental Statement (ES)?  Yes

Has Environmental Statement been considered  Yes

Has 3rd Party comment been received  No

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Has 3rd Party comment been considered

N/A

Planning Ref: O/05

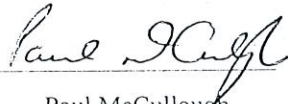
Should other agencies be involved as additional consultees

No

**Environmental Health Department - Recommendation on Application**

- No objection
- Further information required from applicant
- No objection with informative
- No objection subject to conditions
- Objection on EH ground

Signed:-

  
Paul McCullough

Date Signed: 29/01/2010

01 FEB 2010

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**Our Ref** D/09/029

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**Date:** 24 May 2010

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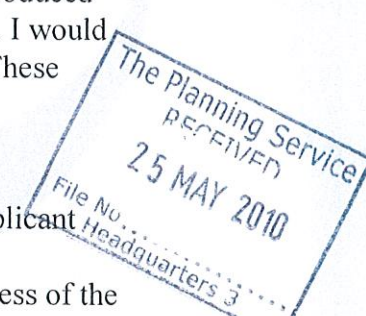
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RECEIVED  
25 MAY 2010  
File No. ....  
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*"Note Any consultation response provided by the Environmental Health Department is based on: information supplied by the applicant, and other information currently available."*





5.& 6. Environmental Health recognises that stress and anxiety are in themselves adverse health effects. The public perception of a development proposal is a matter for consideration by Planning Service.

7. During pre-application discussions Environmental Health have identified the need for appropriate consideration of new applications, replacement dwellings and the like which lie in the vicinity of the proposed interconnector. Should Planning Service be aware of any committed development closer to the proposed interconnector than those dwellings considered in the Environmental Statement then the assessment should be reconsidered to ensure that the ICNIRP public exposure limits are not exceeded.

FURTHER COMMENT: 24/05/2010

I refer to your consultation letter dated 11th May 2010. I have examined the letter of objection from Jim Lennon, Listarkelt Road, Derrynoose.

I have no environmental health comments to make in addition to those already provided.



Paul McCullough

Principal Environmental Health Officer (Environmental Protection)  
Southern Group Environmental Health Committee

c.c. Deputy Director of Environmental Health, Dungannon and South Tyrone Borough Council

c.c. Deputy Director, Regulatory Services and Audit, Armagh City & District Council



*"Note Any consultation response provided by the Environmental Health Department is based on:  
information supplied by the applicant, and  
other information currently available."*





## Moore, Alan

---

**From:** McKay, Anthony  
**Sent:** 22 March 2010 13:03  
**To:** Moore, Alan  
**Cc:** Watson, Jackie  
**Subject:** FW: Final reply

**Attachments:** CX 28130 Danny Kennedy final reply.tr5; CX 28130 Danny Kennedy final reply.PDF

---

**From:** Crilly, Yvonne  
**Sent:** 22 March 2010 10:06  
**To:** McKay, Anthony  
**Cc:** Maguire, Anne; Lipsett, Lorna; Booth, Ita; Dobbin, Nicola; Friel, Gemma; Furey, Damian  
**Subject:** Final reply

Anthony,

Please find attached copy of final reply for CX/28130 - Cllr Danny Kennedy.

Yvonne

Yvonne Crilly  
Planning Secretariat  
Tel: 028 9041 6980  
email:yvonne.crilly@doeni.gov.uk



CX 28130 Danny Kennedy final r...



CX 28130 Danny Kennedy final r...

Ulster Unionist Advice Centre  
107 Main Street  
MARKETHILL  
Co Armagh  
BT60 1PH



Northern Ireland  
Assembly

Parliament Buildings  
Belfast BT4 3XX

**Cllr Danny Kennedy MLA**  
**Deputy Leader, Ulster Unionist Assembly Party**  
**Chairman of the Committee for the Office of The First Minister & Deputy First Minister**

80 Market Street, **TANDRAGEE**  
Co. Armagh, BT62 2BP  
Tel (028) 3884 1166  
Fax (028) 3884 1666

Room 304, Parliament Buildings **STORMONT**  
Belfast, BT4 3XX  
Tel (028) 90 521336 Fax (028) 90 521757  
Email - [danny.kennedy@niassembly.gov.uk](mailto:danny.kennedy@niassembly.gov.uk)

107 Main Street, **MARKETHILL**  
Co. Armagh, BT60 1PH  
Tel (028) 3755 2831  
Fax (028) 3755 2832

Mr David Ferguson  
Chief Executive  
Planning Service Headquarters  
Millennium House  
17-25 Great Victoria Street  
BELFAST  
BT2 7BN

5 March 2010

Dear Mr Ferguson,

**Re: Objection to Installation of overhead pylons by NIE per Cavan/Tyrone Interconnector.**

I write to you in my position as an Assembly member for the constituency of Newry & Armagh to formally record my objection to the proposal by Northern Ireland Electricity to install a 400KV overhead single circuit powerline through rural Armagh and Tyrone as part of the Cavan to Tyrone Interconnector project.

I can confirm that my chief concerns surround the potential adverse effect that the Tyrone to Cavan Interconnector could have on landowners and rural dwellers in my constituency who live on the proposed route corridor.

I would also take this opportunity to highlight my concerns about the economic, welfare, health and environmental risks that could occur as a result of the Tyrove to Cavan Interconnector proposal being developed in its current form.

I can advise you that there are extremely significant and vociferous objections to this proposal as can be witnessed by the large numbers of people that have attended public meetings in relation to this issue. I can also confirm that many people have become actively involved in lobby groups opposed to the implementation of this proposal.

I strongly believe the installation of pylons along the proposed route could prevent many farmers from utilising large tracks of their land, which could have an adverse economic effect on their livelihoods in the current economic climate.



I am aware Northern Ireland Electricity has confirmed that landowners will be entitled to and will receive compensation, however this will be dictated in many cases by the company and will reflect their values rather than those of the landowners.

Understandably, therefore, my constituents have serious reservations that Northern Ireland Electricity's compensation would recompense farmers for any financial losses suffered as a result of being unable to utilise sections of their land.

Given the nature of the interconnector proposal, pylons will be placed extremely close to properties along the proposed route and numerous householders have, justifiably in my opinion raised concerns about the visual impact and the potential health and safety risks.

Despite Northern Ireland Electricity's statement that there are no risks associated with the interconnector proposal, I can confirm that this has failed to reassure local residents and landowners who live along the proposed route.

I can advise you that my constituents have taken a responsible and sensible attitude in respect of their opposition to this project by engaging the services of well qualified experts. I can confirm that these experts including Mr Roger Coghill have countered Northern Ireland Electricity's claims that there are no risks associated with the interconnector proposal by stating that much evidence points to the adverse health effects of living near electric fields.

Mr Coghill has said that the belief that there was no health risk from living near such fields had been dispelled decades ago. He maintains that there is substantial evidence in every part of science to show that there are adverse health effects from possible exposure, which contradicts the material produced by Northern Ireland Electricity.

My constituents believe that the environmental and potential health risks associated with such a major overhead power line cannot be justified by Northern Ireland Electricity. They believe that a high-voltage overhead power line, with pylons of over 100ft, would significantly destroy areas of beautiful, natural landscape in this part of Northern Ireland.

I strongly believe Northern Ireland Electricity should take into consideration issues raised by public representatives and residents in the area in respect of this proposal and insist that if a cable is absolutely necessary, it should be buried underground.

I would therefore ask you to provide an assurance that your Department would be sufficiently minded to insert an approval clause insisting that this must be a requirement in any determination of Northern Ireland Electricity's application.



I trust you will give serious and sympathetic consideration to the significant level of opposition to this proposal. I do believe that Northern Ireland Electricity will be determined to proceed with this project in its current form, however, given the deep seated opposition that exists, I do hope that worthy attention is paid to the views of those constituents and public representatives who consider the most wise option to be the siting of the cables underground.

Should you require any further information, please do not hesitate to contact me. Thank you for your assistance in this matter, I look forward to hearing from you.

Yours sincerely,



---

CLLR DANNY KENNEDY MLA  
(Newry & Armagh Constituency)

Your ref:  
Our Ref: CX/28130



Councillor Danny Kennedy MLA  
Room 304  
Parliament Buildings  
STORMONT  
Belfast  
BT4 3XX

**Chief Executive's Office**

Millennium House  
17 - 25 Great Victoria Street  
Belfast  
BT2 7BN

Direct Dial: 028 9041 6993

Date: 19 March 2010

*Dear Councillor Kennedy,*

Thank you for your letter of 5 March 2010 to my predecessor, David Ferguson, regarding the proposed North-South Electricity Interconnector.

I can advise that consideration of this application, which is substantial and complex, is at a relatively early stage.

I note your objections to the proposal in its current form and would assure you that your concerns will be given careful consideration before a decision is taken. A copy of your letter and this reply will be placed on the application file.

*Yours sincerely,*

*Cynthia Smith*

**CYNTHIA SMITH**  
Chief Executive



An Agency within the Department of the  
**Environment**  
www.doeni.gov.uk

Tel. (028) 9041 6700 Fax. (028) 9041 6976  
Email. [planning.service.hq@nics.gov.uk](mailto:planning.service.hq@nics.gov.uk)  
Web. [www.doeni.gov.uk/planning/index.htm](http://www.doeni.gov.uk/planning/index.htm)



INVESTOR IN PEOPLE

**The Ulster Society for the Protection of the Countryside**

22 Donegall Road, Belfast, Northern Ireland BT12 5JN

Telephone (028) 9024 9006 E-mail [uspcinfo@tiscali.co.uk](mailto:uspcinfo@tiscali.co.uk)



Mr A Moore  
Planning Service Headquarters  
Millennium House  
17-25 Great Victoria Street  
BELFAST  
BT2 7BN

16 March 2010

Your ref: O/2009/0792/F

Dear Mr Moore

**Erection of overhead electrical transmission cable from Moy, Co. Tyrone to Crossreagh, Co. Armagh**

Thank you for your letter of 15 January 2010 informing us of the above application. I apologise for the delay in replying.

The USPC appreciates the necessity for improved interconnection between the electricity grids in Northern Ireland and the RoI, but overhead cables and the associated pylons, particularly over long distances, are detrimental to the visual amenity of the countryside. There may also be problems in relation to bird strikes.

Notwithstanding the initial additional cost, the USPC would prefer that the cabling is placed underground rather than overhead.

Yours sincerely

A handwritten signature in cursive script, appearing to read 'Ian Lamont'.

Ian Lamont  
Honorary Secretary





**Moore, Alan**

**From:** McCombe, Ryan [ryan.mccombe@niaur.gov.uk]  
**Sent:** 01 March 2010 11:34  
**To:** Moore, Alan  
**Subject:** Interconnection Proposal  
**Attachments:** 2010\_03\_01 response to planning A Moore.pdf

Hi Alan,

Response as requested.

Hard copy will follow.

Many thanks

**Ryan McCombe**  
**Electricity Directorate**  
Queens House  
14 Queen Street  
Belfast BT1 6ER

Direct Tel: +44 (0) 28 9031 6639

General Contacts: T: +44 (0) 28 9031 1575 F: +44 (0) 28 9031 1740 E: [info@niaur.gov.uk](mailto:info@niaur.gov.uk)



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Mr A Moore  
The Planning Service  
Millennium House  
17-25 Great Victoria Street  
Belfast  
BT2 7NB

1 March 2010

Dear Sir

**Ref O/2009/0792/F**

**Proposal: Erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Moy, Dungannon, Co Tyrone to the townlands of Crossreagh and Crossbane, Co Armagh where it would connect with the proposed network in the Republic of Ireland.**

Thank you for your letter dated 6 January 2010 and your subsequent letter dated 12 February 2010 inviting the Utility Regulator to comment on the above planning application.

The Utility Regulator welcomes the opportunity to comment on the Proposals detailed above however, for the purposes of responding to this application it should be noted that the Utility Regulator does not have the technical expertise to comment on the majority of the Environmental Impact Assessment or the technical aspects of the build and will therefore focus on the drivers and need for the Project.

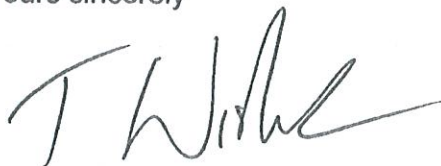
NIE has provided comprehensive detail, in Volume 2 of the Environmental statement, the rationale behind, and the need for the proposed Tyrone – Cavan Interconnector. The Utility Regulator categorically endorses the reasoning and principles which NIE has set out. The Utility Regulator would also highlight, to the Planning Service, the point regarding the cost of electricity to customers. The current inadequate interconnection to the all island market will cost an estimated €20M - €25M this year, and possibly as much as €30M. These are the costs of constraints, where the system operator has to run more expensive plant than would otherwise be the case, due to unavailability of transmission system. Constraints are a result of a dynamic system and will vary from year to year, but there are good reasons to consider they are likely to rise over time.

The Utility Regulator can confirm that it has been consulted on by both NIE and Eirgrid, throughout the process and has supported and gives its full backing to the need for the Interconnector.

The Utility Regulator appreciates the amount of time and effort exercised by NIE in reaching this stage of the Project. It should be noted that in achieving this, the Utility Regulator has been fully supportive throughout the process and has approved the recovery of associated costs by NIE. This money is recovered from Northern Ireland customers and is part funded through European grants.

I trust this is satisfactory for your requirements. Should you require any further information or clarification please do not hesitate to contact me.

Yours sincerely

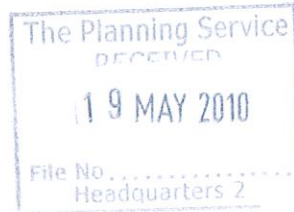
A handwritten signature in black ink, appearing to read 'T Wishart', with a long horizontal flourish extending to the right.

Tanya Wishart

Networks



Mr A Moore  
The Planning Service  
Millennium House  
17-25 Great Victoria Street  
Belfast  
BT2 7NB



14 May 2010

Dear Sir

**Ref O/2009/0792/F**

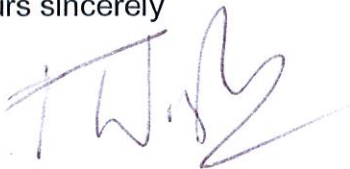
**Proposal: Erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Moy, Dungannon, Co Tyrone to the townlands of Crossreagh and Crossbane, Co Armagh where it would connect with the proposed network in the Republic of Ireland.**

Thank you for your letter dated 11 May 2010 and attached submission by Mr Jim Lennon inviting the Utility Regulator to comment on the concerns raised about the need and consideration for the above proposal.

The Utility Regulator notes the concerns given by this objector and welcomes the opportunity to respond, however at this stage it does not have any further comments to make.

I trust this is satisfactory for your requirements. Should you require any further information or clarification please do not hesitate to contact me.

Yours sincerely



Tanya Wishart

Networks

CC Chris Coyle

Mr A Moore  
The Planning Service  
Millennium House  
17-25 Great Victoria Street  
Belfast  
BT2 7NB



15 April 2010

Dear Sir

**Ref O/2009/0792/F**

**Proposal: Erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Moy, Dungannon, Co Tyrone to the townlands of Crossreagh and Crossbane, Co Armagh where it would connect with the proposed network in the Republic of Ireland.**

Thank you for your letter dated 13 April 2010 and attached submission from Armagh City & District Council and Dungannon & South Tyrone Borough Council inviting the Utility Regulator to comment on the concerns raised about the need and consideration for the above proposal.

The Utility Regulator notes the concerns given by this objector and welcomes the opportunity to respond, however at this stage it does not have any further comments to make.

I trust this is satisfactory for your requirements. Should you require any further information or clarification please do not hesitate to contact me.

Yours sincerely



Tanya Wishart

Networks

Mr A Moore  
The Planning Service  
Millennium House  
17-25 Great Victoria Street  
Belfast  
BT2 7NB

20 April 2010

Dear Sir

**Ref O/2009/0792/F**


**Proposal: Erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Moy, Dungannon, Co Tyrone to the townlands of Crossreagh and Crossbane, Co Armagh where it would connect with the proposed network in the Republic of Ireland.**

Thank you for your letter dated 16 April 2010 and attached submission by Mr Ronan Woods inviting the Utility Regulator to comment on the concerns raised about the need and consideration for the above proposal.

The Utility Regulator notes the concerns given by this objector and welcomes the opportunity to respond, however at this stage it does not have any further comments to make.

I trust this is satisfactory for your requirements. Should you require any further information or clarification please do not hesitate to contact me.

Yours sincerely



Tanya Wishart  
Networks





**First ES Addendum Responses 2011**

D/09/029  
O/2009/0792/F

07/02/2011 COMMENT:

I make the following comments on behalf of Environmental Health – Armagh City & District Council and Dungannon & South Tyrone Borough Council.

I have examined the additional information contained within “Environmental Statement Addendum – Non-technical Summary Volume 1, Volume 2, and Volume 3 – stamped Received by Planning Service 10 Jan 2011.”

I refer you to my previous comments and to the informatives requested for electromagnetic fields and noise.

In addition I would now make the following comment in relation to the Geology and Soils (Contaminated Land) section of the submitted Addendum. I have examined the risk assessments related to the proposed development in the vicinity of land which may have contaminated due to its former use. Based upon the proposed end-use and nature of construction involved I am satisfied that the risk assessments submitted are adequate and that no further information is required in relation to this aspect of the application.

Therefore, I would request that the previously requested informatives in relation to electromagnetic fields and noise are attached to any planning permission granted.

Paul McCullough  
Principal Environmental Health Officer (Environmental Protection)  
Southern Group Environmental Health Committee

c.c. Deputy Director of Environmental Health, Dungannon and South Tyrone  
Borough Council

c.c. Deputy Director, Regulatory Services and Audit, Armagh City & District Council

D/09/029  
O/2009/0792/F

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I have examined the additional information contained within “Environmental Statement Addendum – Non-technical Summary Volume 1, Volume 2, and Volume 3 – stamped Received by Planning Service 10 Jan 2011.”

I refer you to my previous comments and to the informatives requested for electromagnetic fields and noise.

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Therefore, I would request that the previously requested informatives in relation to electromagnetic fields and noise are attached to any planning permission granted.

Paul McCullough  
Principal Environmental Health Officer (Environmental Protection)  
Southern Group Environmental Health Committee

c.c. Deputy Director of Environmental Health, Dungannon and South Tyrone  
Borough Council

c.c. Deputy Director, Regulatory Services and Audit, Armagh City & District Council



21PL09

11 March 2011

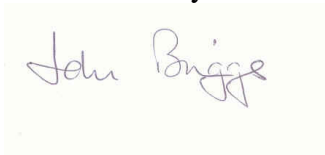
Mr Alan Moore  
Planning Service Headquarters  
Millennium House  
17-25 Great Victoria Street  
BELFAST BT2 7BN

Dear Mr Moore

**PLANNING APPLICATION NO. O/2009/0792/F IN THE NAME OF NIE plc FOR TYRONE-CAVAN INTERCONNECTOR**

I refer to correspondence received in respect of the above application, and wish to indicate that Armagh City and District Council supports the response which has been made by SEAT (Safe Electricity Armagh Tyrone) to the application, a copy of which is attached.

Yours sincerely

A handwritten signature in blue ink that reads "John Briggs". The signature is written in a cursive style and is placed on a light yellow rectangular background.

John Briggs  
**Clerk and Chief Executive**

**Countryside Management Delivery Branch**



Department of

**Agriculture and  
Rural Development**

[www.dardni.gov.uk](http://www.dardni.gov.uk)

Alan Moore  
Planning Service  
Millennium House  
17 – 25 Great Victoria Street  
BELFAST  
BT2 7BN

Inishkeen House  
Killyhevlin  
Enniskillen  
Co. Fermanagh  
BT74 4EJ  
Telephone: 028 6634 3125

9 March 2011

Our Ref: P437/10

Your Ref: O/2009/0792/FR

Dear Mr Moore,

Re: Overhead power line, Trewmount Rd, Moy to Crossreagh / Crossbane, Co. Armagh.

I have no additional comments to make regarding this proposal which has been previously referred on many occasions. Our main concerns were hedgerow reinstatement following removal and the impact of soil compaction on agricultural land. The addendums do not directly address these issues.

Yours sincerely,

John V. Courtney

Senior Countryside Management Adviser



Divisional Planning Office  
County Buildings  
15 East Bridge Street  
Enniskillen  
Co. Fermanagh  
BT74 7BW  
Date 18/04/2011

DARD  
County Agriculture Office  
Inishkeen House  
Killyhevlin  
Enniskillen  
BT74 4EJ  
Telephone: 02866325004  
Fax:02866343000

## Consultee Response

1 Planning Application Reference Number

O/2009/0792/F

2. Has the farm Business Id identified on **Form P1C** been in existence for more than 6 years?

Yes

No

3. Has the business claimed Single Farm Payment (SFP), Less Favoured Area Compensatory Allowances (LFACA) or Agri Environment schemes in the last 6 years?

Yes

No

4. Comments

This consultation should be on the Countryside Management Branch Workqueue.



Checked by

Mary Britton

Date

18/04/2011

**Fisheries & Climate Change**  
Aquaculture and Fish Health



[www.planningni.gov.uk](http://www.planningni.gov.uk)

Room 426, Dundonald House  
Upper Newtownards Road  
Ballymiscaw  
Belfast  
BT4 3SB

Application Reference: O/2009/0792/F

**16th February 2011**

Workflow Reference: PAO17428

To whom it may concern:

Thank you for the correspondence in relation to the above proposal. Fisheries Division has no further comments to make in relation to this proposal.

Kind Regards,

Aquaculture and Fish Health



INVESTOR IN PEOPLE

If you have a hearing difficulty you can contact  
the Department via the textphone on 028 9052 4420

An Roinn Talmhaíochta agus Forbartha Tuaithe  
Mánnystrie o Fairms an Kintra Fordèrin



Una Savage  
Forest Service, Room 31  
Dundonald House  
Upper Newtownards Road  
BELFAST  
BT4 3SB

Phone: 02890 24154 Fax: 02890 524570  
Email: [una.savage@dardni.gov.uk](mailto:una.savage@dardni.gov.uk)  
[www.forestserviceni.gov.uk](http://www.forestserviceni.gov.uk)

Dear Sir

RE Planning Application Number 0/2009/0792/F

Forest Service has no interest in this proposal.

Yours sincerely

**Una Savage**  
**Corporate Services**  
21/02/2011





Planning Advisory Unit  
44 Seagoe Industrial Estate  
CRAIGAVON  
Co. Armagh  
BT63 5QE

Telephone: 028 3839 9118  
Fax: 028 3839 9120  
Web: [www.riversagencyni.gov.uk](http://www.riversagencyni.gov.uk)

---

Mr Alan Moore  
Northern Ireland Planning Service

Your Ref: O/2009/0792/F

Our Ref: ~~DA2-10-1753~~  
DA2-11-2316

4th February 2011

Dear Sir / Madam

**RE: Overhead Line from rear of 152 Trewmount Road, Tuleenan, Moy, Dungannon to Crossreagh & Crossbane, Armagh**

Thank you for your consultation regarding the above, dated 27th January 2011.

We will consider your consultation and reply as soon as possible.

Rivers Agency would strongly advise against granting of any planning approval without due consideration being given to drainage and flood defence issues.

Yours faithfully

**Brian Duncan**  
Planning Advisory Unit



Planning Advisory Unit  
44 Seagoe Industrial Estate  
Portadown  
Seagoe Lower  
CRAIGAVON  
Co. Armagh  
BT63 5QE  
Telephone: 028 3839 9118  
Fax: 028 3839 9120  
Web: [www.riversagencyni.gov.uk](http://www.riversagencyni.gov.uk)

epic

Our Ref: DA2-11-2316  
Your Ref: O/2009/0792/F

14<sup>th</sup> February 2011

Dear Sir,

**Re: NIE INTERCONNECTOR MOY TO CROSSBANE**

This site is affected by many watercourses.

From a strategic aspect, Rivers Agency, in line with its own floodplain policy and Planning Service policy always advises that development should be restricted to areas lying outside the predicted 100 year floodplain. Historic and predicted 100 year floodplain extents can now be viewed on the Strategic Flood Map for Northern Ireland by accessing the Rivers Agency web site at [www.riversagencyni.gov.uk](http://www.riversagencyni.gov.uk)

Those areas of the site indicated to lie within the floodplain could only be developed under exception. In the first instance Planning Service should make a judgement call with respect to Planning Policy Statement 15 FLD 1 exceptionality or overriding regional importance. Only if Planning Service deem this to be an exception site would Rivers Agency be willing to appraise a flood risk assessment submitted as part of a valid planning application. The Flood Risk Assessment would be expected to include mitigatory measures to compensate for the resultant loss of floodplain storage or adverse effects on conveyancing however negligible those effects may be.

For approved development within the site (including infilling) outside and particularly adjacent the predicted 100 year floodplain, Rivers Agency always advises adding a minimum freeboard of 600mm for design purposes (including roads, car parks, gardens and paths) in which case a flood risk assessment would be required to define the exact extent of the floodplain and consider flooding from any other means.

**Under the terms of Schedule 6 of the Drainage (Northern Ireland) Order 1973 the applicant must submit to Rivers Agency for its consent any proposal to carry out works which might affect a watercourse.**

Please quote our reference number above on any future correspondence.

Yours faithfully

**A Bell**  
**Senior Planning Advisor**





Department of  
**Agriculture and  
Rural Development**

[www.dardni.gov.uk](http://www.dardni.gov.uk)

**Veterinary Service**

---

Application Reference:	O/2009/0792/F
Proposal:	Erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Moy, Dungannon, Co Tyrone to the townlands of Crossreagh and Crossbane, Co Armagh where it would connect with the proposed network in the Republic of Ireland.
Location:	Land to the rear of 152 Trewmount Road in the townland of Turleenan, Moy, Dungannon, Co Tyrone and overhead electrical transmission line from Trewmount Road, Moy to the townlands of Crossreagh and Crossbane, Co Armagh.
Date Consulted:	27/1/2011
Date of Response:	9/3/2011

---

I have considered this proposal and on the basis of the information available to me I do not know of any animal health or welfare implications that would effect this proposal provided:

1. The boundary fences with the surrounding fields, which contain livestock, remain stock proof during construction.
2. Livestock do not have access to the materials used in the construction /erection.
3. Materials for the construction /erection are not stored where vermin could have access to them, and there is adequate vermin control on site.
4. The construction and erection of the proposed line and new substation does not result in contamination of surrounding agricultural land and waterways by building materials, their by-products or leach ate from the site.
5. Livestock do not have access to electricity cables or other live components.
6. The proposal does not compromise any of the five essential welfare freedoms of livestock in the vicinity i.e. freedom from hunger, thirst or malnutrition, provision of shelter, freedom from injury or disease, freedom from fear, and freedom to express their normal behaviour.
7. Proper cleaning and disinfection of humans and vehicles/equipment/tools carried out prior to entry and exit from farmlands accessed during construction / erection.

Regards,

Veterinary Service

## PLANNING RESPONSE

Planning Ref: O/2009/0792/F  
NIEA Ref: HB13/11/039 + HB13/11/040

---

**Proposal:** Land to the rear of 152 Trewmount Road in the townland of Turleenan, Moy, Dungannon, Co Tyrone and overhead electrical transmission line from Trewmount Road, Moy to the townlands of Crossreagh and Crossbane, Co. Armagh.

**Location:** Erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Moy, Dungannon, Co Tyrone to the townlands of Crossreagh and Crossbane, Co Armagh where it would connect with the proposed network in the Republic of Ireland.

**Date Consulted:** 17<sup>th</sup> January 2011  
**Date of Response:** 07<sup>th</sup> February 2011

NIEA:HBU objects to the proposal as we consider it is contrary to Policy BH11 of the Department's Planning Policy Statement 6: Planning, Archaeology and the Built Heritage in that the proposed structures would, if permitted, adversely affect the setting of Tullydowney House and Gate Lodge, which are buildings listed under Article 42 of the Planning (NI) Order 1991 by reason of their scale and proximity.

We would request that alternative siting options are explored for the proposed electrical structures in these two locations.

**Issued on behalf of**  
**NIEA: Historic Buildings Unit**

**NIEA: Historic Monuments Unit**

**Waterman House**

**5-33 Hill Street**

**Belfast**

**BT1 2LA**

**Planning Service Ref:** O / 2009 / 0792 / F

**NIEA: HMU ref:** SM 11 / 2 Arm 7,11,12,15,16,19. Tyr 61,62

**Site:** Land to the rear of 152 Trewmount Road in the townland of Turleenan Moy, Dungannon. Overhead electrical transmission line from Trewmount road Dungannon to border of Republic of Ireland.

**Date:** 14/02/2011

Please refer to our comments in respect of this application dated 26<sup>th</sup> January 2010, our position has not changed.

NIEA: Historic Monuments Unit has reviewed the addendum submitted with the Environmental Statement, and would agree with section 1.5 of Addendum A2 "Transboundary Cultural Heritage Assessment" titled "Interrelationship of Impacts" that no further impacts have been identified.

Consequently, should this application be approved, it should be conditional on the agreement and implementation of a developer-funded programme of archaeological works, to identify and record any archaeological remains in advance of new construction, or provide for their preservation *in situ*, as per **Policy BH 4 of PPS 6**. Removal of floor levels and foundation slabs, or other overburden and any works that may uncover archaeological remains, must be supervised by a licensed archaeologist. There must be no chasing or removal of services or foundations prior to archaeological evaluation.

Please ensure that conditions are attached to any approval decision.

**Issued on behalf of**

**NIEA: Historic Monuments Unit**



**NORTHERN IRELAND ENVIRONMENT AGENCY  
HISTORIC MONUMENTS UNIT**

**5 - 33 Hill Street  
Belfast BT1 2LA  
Tel: (028) 9023 5000  
Fax: (028) 9054 3111**

**For the attention of:** D.P.O. Craigavon  
**Planning Ref:** O / 2009 / 0792 / F  
**Development:** Land to the rear of 152 Trewmount Road in the townland of  
Turleenan Moy, Dungannon. Overhead electrical transmission line  
from Trewmount road Dungannon to border of Republic of Ireland.  
**Our Ref:** SM 11 / 2 Arm 7,11,12,15,16,19. Tyr 61,62  
**Date:** 14/02/2011

- No site works of any nature or development shall take place until a programme of archaeological work, has been implemented, in accordance with a written scheme and programme prepared by a qualified archaeologist, submitted by the applicant and approved by the Department. The programme should provide for the identification and evaluation of archaeological remains within the site, for mitigation of the impacts of development, through excavation recording or by preservation of remains, and for preparation of an archaeological report.
- **Reason:** to ensure that archaeological remains within the application site are properly identified, and protected or appropriately recorded.
- Access shall be afforded to the site at all reasonable times to any archaeologist nominated by the Department to observe the operations and to monitor the implementation of archaeological requirements.

**Reason:** to monitor programmed works in order to ensure that identification, evaluation and appropriate recording of any archaeological remains, or any other specific work required by condition, or agreement is satisfactorily completed.

**Advice :**

For guidance on the preparation of the Written Scheme and Programme of Archaeological Work, which should be submitted for approval at least 4 weeks before work is due to begin, contact:

Northern Ireland Environment Agency – Historic Monuments Unit

5 - 33 Hill St, Belfast BT1 2LA

Tel: 028 – 9023 5000

Quote reference: **SM 11/2 Arm 7,11,12,15,16,19. Tyr 61,62**

Application for the excavation licence, required under the Historic Monuments and Archaeological Objects (NI) Order 1995, should be submitted at least 3 weeks before work is due to begin, by a qualified archaeologist responsible for the project, to:

Northern Ireland Environment Agency – Historic Monuments Unit

5 - 33 Hill St, Belfast BT1 2LA Tel: 028 – 9023 5000

Gail Howell  
Casework Officer

**Land and Resource Management (LRM) Unit**

Consultation response for planning application

**Planning application no:** O/20090792/F/ **LRM file Reference:** PLAN 2682

**Proposal:** Single circuit overhead power line and new substation

**Site location:** Trewmount Rd, Moy, Co Tyrone to Crossreagh and Crossbane, Co Armagh

**Date of response:** 28<sup>th</sup> February 2011

**Consultee response:**  Final Substantive Reply  Interim Reply

**Summary of response:**

AECOM as environmental consultants for the applicant have provided additional information in relation to the potential for land contamination and associated risks to health and environmental receptors to be present arising from historic land-uses along the route of the proposed development. Based on their preliminary risk assessment, they conclude that potential pollutant linkages are not present and as such, unacceptable risks are unlikely to be present.

LRM Unit has no objection to this development subject to the conditions and informatives included at the end of this comment.

**Supporting comments:**

The comments below are not exhaustive but serve to capture key points in support of the LRM position outlined above. These comments are made on consideration of the following report(s): Environmental Statement Addendum, prepared by AECOM on behalf of Northern Ireland Electricity. .

1. In the course of pre-application discussions on this application (O/2008/0822/Q) it came to light that the proposed locations of a number of the support towers required for the above proposed development were located close to or on land which may have been affected by contamination by virtue of its historic use. LRM Unit therefore requested further information in relation to these locations.
2. AECOM, as consultants for the applicants, provided a technical note on land contamination issues, in clarification of the issues raised in the Environmental statement. 33 tower locations in total were identified as being potentially close to or on sites which may be affected by contamination as identified by the LRM Unit historic land-use database. Records on the database are provided on a 'without prejudice' basis as the information has not been verified.
3. In the majority of these instances potential sources of contamination were considered by AECOM to be too far from the proposed tower locations (>0.5km) to represent a

risk or the potential for contaminant migration was limited by the relative topography of the two locations, such that no viable pollutant linkage could be established.

4. Two tower locations were identified as having potential linkages and were subject to more detailed consideration: towers 49 and 72.
5. Tower 49 was reported as being 20m from a historic railway line. Whilst a number of potential contaminants are associated with railway land, given the railway was decommissioned in 1967, any volatile and/or soluble compounds are reported as likely to have been lost. Any remaining organic compounds are considered likely to be more recalcitrant and less mobile, therefore not representing a significant risk to environmental receptors. Furthermore given the footprint of the proposed tower development does not directly impinge on the former railway, the risks of contamination being mobilised are considered by AECOM to be small.
6. Tower 72 was reported as being adjacent to an in-filled quarry. Upon walkover of the site, it was not possible for AECOM to verify the presence of a former quarry/mineral workings at this location. No identifiable source of contamination could be found such that no linkage could be established.
7. Any materials brought onto or removed from sites along the route must be done so in full compliance with the relevant waste management legislation.

#### **Proposed condition**

1. **If during the development works, contamination is encountered which has not previously been identified, works should cease and the Department shall be notified immediately. This new contamination shall be fully investigated in accordance with the Model Procedures for the Management of Land Contamination (CLR11). In the event of unacceptable risks being identified, a remediation strategy shall be agreed with the Department in writing, and subsequently implemented and verified to its satisfaction.**

**Reason: Protection of health and environmental receptors to ensure the site is suitable for use.**

#### **Proposed Informatives**

1. **The purpose of conditions 1 is to ensure that any site risk assessment and remediation work is undertaken to a standard that enables safe development and end-use of the site such that it would not be determined as contaminated land under the forthcoming Contaminated Land legislation i.e. Part 3 of the Waste and Contaminated Land Order (NI) 1997. It remains the responsibility of the developer to undertake and demonstrate that the works have been effective in managing all risks.**
2. **The applicant should ensure that the management of all materials onto and off this site are suitably authorized through the Waste Management Regulations (NI) 2006 and/or the Water Order (NI) 1999. This should be demonstrated through a Site Waste Management Plan (see <http://www.netregs.gov.uk>)**

Should you have any queries regarding this response please contact the Land Quality Team

**Issued on behalf of the Land and Resource Management (LRM) Unit within the NIEA**



Mr A Moore  
Planning Service  
Planning Service Headquarters  
Millennium House  
17-25 Great Victoria Street  
Belfast  
BT2 7BN

**Date: 5 April 2011**  
**Telephone: 028 905 69615**  
**Your Ref: O/09/0792**  
**Our Ref: 17178-7& 8**

**Full**  
**RE: Erection of a single circuit 400kv overhead line (33.9km) from a new 400/275KV substation at Trewmount Road Moy to the border where it connects with the proposed network in the Republic of Ireland**  
**Location: Land to the rear of 152 Trewmount Road in the townland of Turleenan Moy Dungannon Co Tyrone and overhead electrical transmission line from Trewmount Road Moy to the townlands of Crossreagh and Crossbane Co Armagh**

Dear Mr Moore

I refer to your consultation letter for the above planning application which was received in this office on 19 January 2011. We acknowledge receipt of an Addendum to the Environmental Statement (ES) (Volumes 1-3). We also acknowledge receipt of an objection statement.

### **Position**

Following further consideration of the information contained within the ES and Addendum, NIEA, Natural Heritage has **no objection** to the proposed development **subject to conditions** which would overcome our concerns.

### **Appraisal of the proposal: Natural Heritage Interest**

NIEA, Natural Heritage considers that a new survey is not required for this proposal as it is unlikely that there are waterbodies which are suitable as breeding ponds for newts within 200 metres of the proposed line route.

Following further consideration of the ES and Addendum we note that the waterbodies adjacent to Towers 32, 43 and 83 are identified as "watercourses" as shown on the legend of Figure 10.1 to 10.10 (Habitat Map) of Volume 4 of the ES. Towers 22 and 23 are located to the east of a pond as shown on the legend of Figure 10.1 to 10.10 (Habitat Map) of Volume 4 of the ES. The attributes of this pond and elements of the surrounding landform are unsuitable for newts – this has been identified in the aerial photography within Volume 4 of the ES, including Figures 1.7, 10.13 and

13.7c.

The results of the badger survey presented in the ES addendum record low incidences of badger evidence and activity within 150 metres of any tower locations. We welcome the intention to undertake a pre-construction badger survey. Should this survey record any new badger setts then a licence will be required for any works to be carried out within 25m of the entrances of any occupied setts.

The bat survey report concludes that the proposal is unlikely to have an adverse impact on the areas local bat population. There will be a loss of some trees which may potentially be used by bats. We consider that once all mature trees to be removed and lopped have been identified, they shall be inspected for the presence of bats by an experienced bat worker or surveyor on the day of felling.

## **Recommendations**

Should approval be granted, the following Conditions should be attached to the Decision Notice.

## **Conditions**

Once all mature trees to be removed and lopped have been identified, any potential roost sites shall be inspected for the presence of bats by an experienced bat worker or surveyor on the day of felling. If evidence of bats is found during inspection, all work shall cease immediately and advice shall be sought from the Northern Ireland Environment Agency Wildlife Inspector.

**Reason:** To minimise the impact of the proposal on the local bat population.

Deflectors shall be inserted on lines that cross the Blackwater River Valley.

**Reason:** To reduce the risk of collision to swans.

Works in the vicinity of watercourses shall avoid contact with the watercourse surface and bed.

**Reason:** To minimise the impact of the proposal on bats.

All works to take place within 25 metres of existing badger sett entrances on site shall be supervised by an NIEA Protected Species Licence holder.

**Reason:** To mitigate potential impacts to badgers on the site.

## **Informatives**

The applicant's attention is drawn to The Conservation (Natural Habitats, etc) Regulations (Northern Ireland) 1995 (as amended), which states that it is an offence to deliberately capture, injure or kill a wild animal of a European protected species included in Schedule II of these Regulations, which includes all species of bat. It is also an offence;

(a) Deliberately to disturb such an animal while it is occupying a structure or place which it uses for shelter or protection;

(b) Deliberately to disturb such an animal in such a way as to be likely to;

(i) Affect the local distribution or abundance of the species to which it belongs;

(ii) Impair its ability to survive, breed or reproduce, or rear or care for its young; or

(iii) Impair its ability to hibernate or migrate;

- (c) Deliberately to obstruct access to a breeding site or resting place of such an animal; or
- (d) To damage or destroy a breeding site or resting place of such an animal.

To avoid any breach of The Conservation (Natural Habitats, etc) Regulations (Northern Ireland) 1995 (as amended), all mature trees and/or buildings to be removed should be checked on the day of felling for the presence of bats, by an experienced bat worker or surveyor.

If there is evidence of bat activity on the site, all work must cease immediately and further advice must be sought from the Wildlife Officer, Northern Ireland Environment Agency, Klondyke Building, Cromac Avenue, Gasworks Business Park, Lower Ormeau Road, Belfast. BT72JA. Tel. 02890 569623

The applicant's attention is drawn to The Conservation (Natural Habitats, etc.) Regulations (Northern Ireland) 1995 (as amended), which states that it is an offence to deliberately capture, injure or kill a wild animal of a European protected species included in Schedule II of these Regulations, which includes otters (*Lutra lutra*). It is also an offence;

- (a) Deliberately to disturb such an animal while it is occupying a structure or place which it uses for shelter or protection;
- (b) Deliberately to disturb such an animal in such a way as to be likely to:
  - (i) affect the local distribution or abundance of the species to which it belongs;
  - (ii) Impair its ability to survive, breed or reproduce, or rear or care for its young; or
  - (iii) Impair its ability to hibernate or migrate;
- (c) Deliberately to obstruct access to a breeding site or resting place of such an animal; or
- (d) To damage or destroy a breeding site or resting place of such an animal.

If there is evidence of otter activity on the site, all work must cease immediately and further advice must be sought from the Wildlife Officer, Northern Ireland Environment Agency, Klondyke Building, Cromac Avenue, Gasworks Business Park, Lower Ormeau Road, Belfast. BT72JA. Tel. 02890 569623

The applicant's attention is drawn to the Wildlife (Northern Ireland) Order 1985 which indicates that it is an offence to intentionally kill, injure or take any wild animal included in Schedule 5 of this Order which includes the badger (*Meles meles*). It is also an offence to disturb these animals or damage or obstruct access to their place of refuge, or damage or destroy anything which conceals or protects their place of refuge.

If there is evidence of badger on the site, all work must cease immediately and further advice must be sought from the Wildlife Officer, Northern Ireland Environment Agency, Klondyke Building, Cromac Avenue, Gasworks Business Park, Lower Ormeau Road, Belfast. BT72JA. Tel. 02890 569623

The applicant's attention is drawn to the Wildlife (Northern Ireland) Order 1985 which indicates that it is an offence to intentionally kill, injure or take any wild animal included in Schedule 5 of this Order which includes the smooth newt (*Lissotriton vulgaris*). It is also an offence to disturb these animals or damage or obstruct access to their place of refuge, or damage or destroy anything which conceals or protects their place of refuge. Tel. 02890 569623



If there is evidence of newts on the site, all work must cease immediately and further advice must be sought from the Wildlife Officer, Northern Ireland Environment Agency, Klondyke Building, Cromac Avenue, Gasworks Business Park, Lower Ormeau Road, Belfast. BT72JA. Tel. 02890 569623

The applicant's attention is drawn to the Wildlife (Northern Ireland) Order 1985 which states that it is an offence to intentionally kill, injure or take any wild bird. It is also an offence to take or damage or destroy the nest of any wild bird while that nest is in use or being built; or take or destroy an egg of any wild bird. If any person intentionally disturbs any wild bird while it is building a nest or is in, on or near a nest containing eggs or young; or disturbs dependent young of such a bird they shall be guilty of an offence. **It is therefore advised that tree and hedge loss should be kept to a minimum and removal should not be carried out during the bird-breeding season between 1<sup>st</sup> March and 31<sup>st</sup> August.**

Yours sincerely

**Development Management Team**

Mr A Moore  
Planning Service  
Planning Service Headquarters  
Millennium House  
17-25 Great Victoria Street  
Belfast  
BT2 7BN

**Date: 29 March 2011**  
**Telephone: 028 905 69615**  
**Your Ref: O/09/0792**  
**Our Ref: 17178-7&8**

**Full**  
**RE: Erection of a single circuit 400kv overhead line (33.9km) from a new 400/275KV substation at Trewmount Road Moy to the border where it connects with the proposed network in the Republic of Ireland**  
**Location: Land to the rear of 152 Trewmount Road in the townland of Turleenan Moy Dungannon Co Tyrone and overhead electrical transmission line from Trewmount Road Moy to the townlands of Crossreagh and Crossbane Co Armagh**

Dear Mr Moore

I refer to your consultation letter for the above planning application which was received in this office on 19 January 2011. We acknowledge receipt of an Addendum to the Environmental Statement (Volumes 1-3). We also acknowledge receipt of an objection statement.

### **Position**

NIEA, Natural Heritage considers that there is **insufficient information** provided with the application to assess the importance of natural heritage interests. We cannot give a position on this application until further information is received. **In the absence of this, NIEA, Natural Heritage will recommend refusal of the application on the grounds of insufficient information.**

### **Appraisal of the proposal: Natural Heritage Interest**

Addendum B of the ES Addendum contains a bat report, target notes, and a badger report.

Following further consideration of the target notes we note that several of the proposed tower locations are in close proximity to areas of standing water (pond). We consider that these water bodies may have potential as breeding ponds for smooth newt *Lissotriton vulgaris*. The tower locations which are in close proximity to areas recorded as standing water (pond) are as follows: 22, 23, 32, 43 and 83

We therefore consider that a newt survey of these areas is required as they are within 200 metres of areas of standing water (pond).

This survey of these areas must be to NIEA, NH specifications and should be carried out between **Mid March** and **Mid June**. The specification is attached with this response and can be found at [http://www.doeni.gov.uk/niea/newt\\_survey.pdf](http://www.doeni.gov.uk/niea/newt_survey.pdf)

Once the survey has been received NIEA, NH will be in a position to give further consideration to this proposal.

Yours sincerely

**Development Management Team**

### **NEWT SURVEY - SPECIFIC REQUIREMENTS**

The smooth newt *Lissotriton vulgaris* (formerly *Triturus vulgaris*) is the only species of newt in Northern Ireland, and is protected under Schedules 5, 6 & 7 of the Wildlife (Northern Ireland) Order 1985. It is an offence to intentionally kill, injure or take a newt, possess or control any live or dead specimen or anything derived from a common newt, unless acquired lawfully, disturb newts or obstruct access to their place of refuge, or destroy or damage anything that conceals or protects their place of refuge.

Although newts are widespread across Northern Ireland, suitable habitat for the species is in decline. Newts breed in ponds and areas of standing water with vegetation cover close by. Ponds are exceptionally vulnerable, and face many threats, including drainage and infill. To ensure your development proposals comply with the Order, Northern Ireland Environment Agency has asked you to carry out an appropriate Newt survey. You should follow these guidelines:

- The surveyor contracted to undertake this work must have relevant experience which is deemed acceptable to the Department, for example an ecological consultant with experience of, and/or qualifications in amphibian surveying.
- The date and time of the survey and the qualifications of the surveyor should be included in the survey report.
- Newt surveys should be carried out between **Mid March** and **Mid June**.
- Surveys must be carried out within one year of submission to the department.
- The survey should establish whether Newts are active or inactive in the waterbody and surrounding terrestrial area. The survey should include the surrounding 200m of terrestrial habitat associated with the waterbody.
- The information should be presented in a written report and must include large scale maps at 1:500 scale. The methods used for survey must be included within the survey report (bottle



traps are not permitted in Northern Ireland). All evidence of use by Newts found, for example eggs, or sightings, should be included.

- If necessary, the survey should recommend the most appropriate mitigation measures which will protect Newts on site from impacts caused by the development. Mitigation measures should address impacts pre, during and post construction phase. The survey should also stipulate whether the proposed mitigation measures will require a Protected Species Licence.
- In the event that the planning application goes to appeal or public inquiry, persons contracted to carry out surveys may be required to appear at, or give evidence to the appeal or inquiry.

For more information on Newts and development, contact:

Wildlife Officer, Tel: (028) 9065 69602

Northern Ireland Environment Agency  
Klondyke Building,  
Cromac Avenue,  
Gasworks Business Park  
Belfast BT7 2JA

Landscape Architects Branch recognises that the proposals will have significant visual impacts on local environments and receptors but we are satisfied that the route selected has been determined by an environmental impact assessment that addresses the need to avoid direct impacts on designated areas, avoids large settlements, avoids areas with major environmental constraints and attempts to minimise impacts on individual dwellings and on the wider environment.

Although the portion of the proposed line between Tower 89 and the border does cross elevated land it is difficult to see how a linear development of this nature could avoid higher land somewhere along its length unless it followed a meandering route confined to lower land and river valleys, which could potentially impact on greater numbers of receptors and sensitive landscapes.

We agree with the conclusion of the Environmental Statement Addendum that “no additional significant adverse landscape and visual impacts were identified as a result of the increased study area, additional viewpoints, or from further consideration of the landscape character.”

If I can be of any further assistance please do not hesitate to contact me.

Issued on behalf of  
M MILLER  
Principal Landscape Architect  
Landscape Architects Branch ( LAB )  
Planning Service HQ  
2 February 2011

## **ROADS SERVICE CONSULTATION**

**Planning Application No: O/2009/0792/F**

**Location : Land to the rear of 152 Trewmount Road in the townland of Turleenan, Moy, Dungannon, Co Tyrone and overhead electrical transmission line from Trewmount Road, Moy to the townlands of Crossreagh and Crossbane, Co Armagh.**

**Proposal : Erection of a single circuit 400 kV overhead line from a new 400/275 Kv substation at Trewmount Road, Moy, Dungannon, Co Tyrone to the townlands of Crossreagh and Crossbane, Co Armagh where it would connect with the proposed network in the Republic of Ireland.**

**Applicant : Northern Ireland Electricity Plc.**

**(Armagh District Council)**

### **APPROVAL**

Roads Service has no objections to this proposal subject to the following informatives:-

A meeting with Roads Service Traffic and Transportation Section and Roads Service Section Office shall be planned well in advance of commencement of works on site to address all traffic management issues, management of construction traffic and associated haulage routes, proposed location of site depots and associated accesses, and proposed accesses to the construction site.

Provision shall be made to the satisfaction of Roads Service, to ensure that surface water does not flow from the site onto the public road.

Provision shall be made to the satisfaction of Roads Service, to accommodate the existing roadside drainage and to ensure that surface water does not flow from the public road onto the site.

Precautions shall be taken to prevent the deposit of mud and other debris on the adjacent road by vehicles travelling to and from the construction site. Any mud, refuse, etc, deposited on the road as a result of a development, must be removed immediately by the operator/contractor.

SIGNED:

DATE: 02 March 2011

THOMAS KELLY



Western Division  
County Hall  
Drumragh Avenue  
Omagh  
Co. Tyrone  
BT78 7AF

Application Reference	O/2009/0792/F
Proposal	Erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Moy, Dungannon, Co Tyrone to the townlands of Crossreagh and Crossbane, Co Armagh where it would connect with the proposed network in the Republic of Ireland.
Location	Land to the rear of 152 Trewmount Road in the townland of Turleenan, Moy, Dungannon, Co Tyrone and o
Date of Consultation	17 <sup>th</sup> Jan 2011
Date of Response	18 <sup>th</sup> Jan 2011

Roads Service comments remain the same as of consultation submitted 13<sup>th</sup> Jan 2010

Issued on behalf of Development Control



## **ROADS SERVICE CONSULTATION**

**Planning Application No: O/2009/0792/F**

**Location : Land to the rear of 152 Trewmount Road in the townland of Turleenan, Moy, Dungannon, Co Tyrone and overhead electrical transmission line from Trewmount Road, Moy to the townlands of Crossreagh and Crossbane, Co Armagh.**

**Proposal : Erection of a single circuit 400 kV overhead line from a new 400/275 Kv substation at Trewmount Road, Moy, Dungannon, Co Tyrone to the townlands of Crossreagh and Crossbane, Co Armagh where it would connect with the proposed network in the Republic of Ireland.**

**Applicant : Northern Ireland Electricity Plc.**

### **ADDITIONAL INFORMATION REQUIRED**

Roads Service requires clarification of pylon locations in vicinity of roads.

SIGNED:

DATE: 07 February 2011

THOMAS KELLY

**Second ES Addendum Responses 2011**





Northern Ireland Planning Service

Rob Taylor  
Senior Engineer,  
Spectrum Planning

rob.taylor@arqiva.com  
Direct tel +44 (0)1926 416567  
Direct fax +44 (0)1926 416434

19 October 2011

Our Reference 5598

Your Reference O/2009/0792/F

**PROPOSED WIND TURBINE: Land to the rear of 152 Trewmount Road in the townland of Turleenan, Moy, Dungannon, Co Tyrone**

**NGR (IH 8152 4383)**

Thank you for the opportunity to comment on the above wind turbine development. Arqiva is responsible for providing the BBC and ITV's transmission network and is responsible for ensuring the integrity of Re-Broadcast Links. We have considered whether this development is likely to have an adverse affect on our operations and have concluded that we have no objection to this application.

Yours faithfully,

Rob Taylor  
Senior Engineer,  
Spectrum Planning

**Arqiva, Wireless House, Warwick Technology Park, Heathcote Lane, Warwick, CV34 6DD  
Tel 01926 416000 Fax 01926 416600 [www.arqiva.com](http://www.arqiva.com)**

**Fisheries & Climate Change**  
Fisheries Division



[www.planningni.gov.uk](http://www.planningni.gov.uk)

Room 426, Dundonald House  
Upper Newtownards Road  
Ballymiscaw  
Belfast  
BT4 3SB

Application Reference: O/2009/0792/F

**28<sup>th</sup> October 2011**

Workflow Reference: PAO17428

To whom it may concern:

Thank you for the correspondence in relation to the above proposal.

Fisheries division have looked at this proposal and have no comment to make at this time.

Yours

Fisheries Division



INVESTOR IN PEOPLE

If you have a hearing difficulty you can contact  
the Department via the textphone on 028 9052 4420

An Roinn Talmhaíochta agus Forbartha Tuaithe  
Mánnystrie o Fairms an Kintra Fordèrin

0/2009/0722/F

Results for PCN/PWD:

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PCN Section  
Map Co-ordinates

X:285727

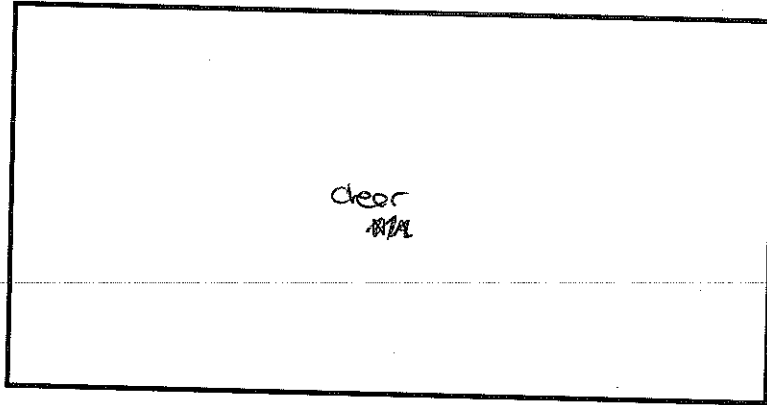
Y:258187

PCN Present:



NO

Areas infected/  
Comments:



Checked by:

Matthew Duckworth

Date:

12/3/2012

Wart Section  
Map Co-ordinates

X:285727

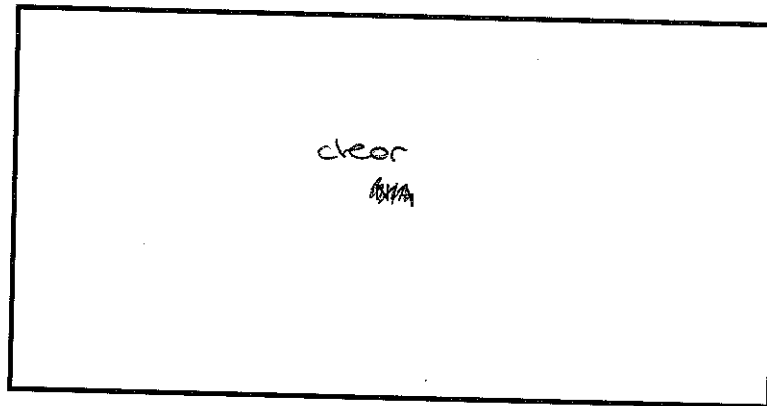
Y:285727

PWD Present:



NO

Areas infected/  
Comments:



Checked by:

Matthew Duckworth

Date:

12/3/2012





Department of  
**Agriculture and  
Rural Development**

[www.dardni.gov.uk](http://www.dardni.gov.uk)

**Veterinary Service**

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Application Reference:	O/2009/0792/F
Proposal:	Erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Moy, Dungannon, Co Tyrone to the townlands of Crossreagh and Crossbane, Co Armagh where it would connect with the proposed network in the Republic of Ireland.
Location:	Land to the rear of 152 Trewmount Road in the townland of Turleenan, Moy, Dungannon, Co Tyrone and overhead electrical transmission line from Trewmount Road, Moy to the townlands of Crossreagh and Crossbane, Co Armagh.
Date Consulted:	10/10/2011
Date of Response:	18/10/2011

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I have considered this proposal and on the basis of the information available to me I do not know of any animal health or welfare implications that would effect this proposal provided:

1. The boundary fences with the surrounding fields, which contain livestock, remain stock proof during construction.
2. Livestock do not have access to the materials used in the construction /erection.
3. Materials for the construction /erection are not stored where vermin could have access to them, and there is adequate vermin control on site.
4. The construction and erection of the proposed line and new substation does not result in contamination of surrounding agricultural land and waterways by building materials, their by-products or leach ate from the site.
5. Livestock do not have access to electricity cables or other live components.
6. The proposal does not compromise any of the five essential welfare freedoms of livestock in the vicinity i.e. freedom from hunger, thirst or malnutrition, provision of shelter, freedom from injury or disease, freedom from fear, and freedom to express their normal behaviour.
7. Proper cleaning and disinfection of humans and vehicles/equipment/tools carried out prior to entry and exit from farmlands accessed during construction / erection.

Regards,

Veterinary Service



Department of

# Agriculture and Rural Development

[www.dardni.gov.uk](http://www.dardni.gov.uk)

## Veterinary Service

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Application Reference:	O/2009/0792/F
Proposal:	(FURTHER ENVIRONMENTAL INFORMATION) Erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Moy, Dungannon, Co Tyrone to the townlands of Crossreagh and Crossbane, Co Armagh where it would connect with the proposed network in the Republic of Ireland.
Location:	Land to the rear of 152 Trewmount Road in the townland of Turleenan, Moy, Dungannon, Co Tyrone and overhead electrical transmission line from Trewmount Road, Moy to the townlands of Crossreagh and Crossbane, Co Armagh.
Date Consulted:	21/02/2012
Date of Response:	23/02/2012

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I have looked at the map and attached information re the designation of part of the Benburb - Milltown area as an area of special scientific interest. This area includes land on both sides of the Blackwater river and so involves both Dungannon and Armagh DVO areas.

The purpose of the suggested ASSI designation is to preserve the current geology and prevents the land owners from certain operations or activities without fulfilling certain conditions. As the purpose is to preserve rather than develop I do not foresee any animal health or welfare implications with this proposal.

Regards

Veterinary Service

Landscape Architects Section advises that, if excessive economic cost and technical constraints preclude undergrounding as a viable option and while recognising that the proposals will have significant visual impacts on local environments and receptors, we are satisfied that the route selected for the overhead power line has been determined by an environmental impact assessment that addresses the need to avoid direct impacts on designated areas, avoids large settlements, avoids areas with major environmental constraints and attempts to minimise impacts on individual dwellings and on the wider environment.

We consider the proposed development acceptable in principle and would reiterate our comments dated 22 February 2010.

If I can be of any further assistance please do not hesitate to contact me.

Issued on behalf of  
M MILLER  
Principal Landscape Architect  
27 October 2011



## Consultation Response from Armagh Area Plan Team

**Application Reference:** O/2009/0792/F **Reconsultation?** NO

**Location:** Land to the rear of 152 Trewmount Road in the townland of Turleenan, Moy, Dungannon, Co Tyrone and overhead transmission line from Trewmount Road, Moy to the townlands of Crossreagh and Crossbane, Co Armagh

**Proposal:** Erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Moy, Dungannon, Co Tyrone to the townlands of Crossreagh and Crossbane Co Armagh where it would connect with the proposed network in the Republic of Ireland.

**Planning History:** There is an extensive planning history along this line.

**This response is confined to the provisions of the Armagh Area Plan 2004/Alteration No. 1 Armagh Countryside Proposals which are material considerations to be taken into account along with all other material considerations, in the determination of the planning applications that are within the Armagh City and District Council Area**

### **Armagh Area Plan 2004: Alteration No. 1 – Armagh Countryside Proposals**

#### **Summary:**

The proposal is for the erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Moy, Dungannon, Co Tyrone to the townlands of Crossreagh and Crossbane Co Armagh where it would connect with the proposed network in the Republic of Ireland.

#### **There are no prematurity issues with regard to this application.**

Development Plan comments that the proposal should accord with the plans and policies contained in the Armagh Area Plan 2004, Armagh Area Plan 2004: Alteration No. 1 – Armagh Countryside Proposals, the Regional Development Strategy, and any other associated planning policy guidance.

**Signed:** ..... **Date** ..... **CASE OFFICER**

**Signed:** ..... **Date** ..... **COUNTERSIGNING OFFICER**



**Western Area Planning Office - Development Plan Team  
Consultation Response**

<b>Proposal</b>	: Erection of single circuit 400Kv overhead line from a new 400/275Kv substation at Trewmount Rd, Moy, Dungannon, Co Tyrone to the townlands of Crossreagh & Crossbane, Co Armagh where it would connect with proposed network in Republic of Ireland.
<b>Address</b>	: Land to the rear of 152 Trewmount Road, Moy, Dungannon ,Co Tyrone & overhead electrical transmission from Trewmount Road, Moy to the townlands of Crossreagh & Crossbane, Co Armagh.
<b>Reference No.</b>	: O/2009/0792/F
<b>Case Officer</b>	: Mr Alan Moore
<b>Response Date</b>	: 20/10/2011

Development Plan Section comments are as follows: -

**1. Dungannon & South Tyrone Area Plan 2010:**

This response is confined to the provisions of the Dungannon Area Plan 2010. The proposal involves a number of towers (lattice style) and overhead power lines to start at Turleenan substation north east of Moy and running over a wide rural area. The proposed development forms the Northern Ireland element of the Tyrone –Cavan Interconnector, which is being jointly proposed by NIE and Eirgrid, forming part of a major cross-border transmission infrastructure development.

**2. Issues / Consideration:**

Many of the Department's regional planning policies for utilities in Dungannon and South Tyrone Borough are currently set out in A Planning Strategy for Rural NI. Policy PSU 11 states that the siting of electricity power lines and other overhead cables will be controlled in terms of the visual impact on the environment with particular reference being given to designated areas of landscape or townscape value.

From a Development Plan viewpoint, it is important that the new lines do not 'sterilise' potential development land within /near designated settlements. In this case, the lines appear to run near to The Moy and Benburb in Dungannon District – but it does not encroach on any of them.

Please consult NIEA to confirm if any areas of constraint are identified in the immediate study area or wider study area identified in Figure 1.1: Location Plan i.e. sites of local nature conservation importance (SLNCIs), archaeological sites or other constraints that the proposed development may impact on.

An increasing number of pylons are expected to be needed to carry energy. These are intrusive in the landscape. It may be interesting to note that a T-shaped design has recently won a competition to find the next generation of electricity pylons. A Danish engineering firm Bystrup beat 250 rivals to win the Royal Institute of



**Western Area Planning Office - Development Plan Team  
Consultation Response**

British Architects contest. It sets the challenge to replace the familiar triangle design – in use since the 1920s (lattice type) with the T-pylon. Therefore, design issues should be taken into account with this major scheme.

**3. Conclusions:**

Development Plan has no objection to the proposal as long as the above issues are taken into account.

Signed: \_\_\_\_\_ Date: \_\_\_\_\_  
Stephen Kennedy, Planning Officer

Signed: \_\_\_\_\_ Date: \_\_\_\_\_  
Hilda Clements, Senior Planning Officer

**Development Plan Team  
DOE Western Area Planning Office, Omagh**



# Memo

**Date:** 18<sup>th</sup> October 2011

**Re:** ENVIRONMENTAL IMPACT ASSESSMENT

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**Re: Erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Moy, Dungannon, Co Tyrone**

An examination of the Department's records show that none of the lands as outlined in the map, which accompanied your request, are subject to the terms of a notice served relating to Potato Cyst Nematode (PCN) or Potato Wart Disease (PWD). Therefore there are no restrictions in so far as the Plant Health Order (Northern Ireland) 2006 is concerned on the movement of soil or other material from these lands.

Yours sincerely

Matthew Duckworth  
Quality Assurance Branch  
Room 1019, Dundonald House

Results for PCN/PWD:

---

PCN Section

Map Co-ordinates

X: 285528

Y: 358449

PCN Present:



NO

Areas infected/  
Comments:

N/A

Checked by:

Matthew Duckworth

Date:

18/10/11

Wart Section

Map Co-ordinates

X: 285528

Y: 358449

PWD Present:



NO

Areas infected/  
Comments:

N/A

Checked by:

Matthew Duckworth

Date:

18/10/11

*Matthew Duckworth*



Planning Advisory Unit  
44 Seagoe Industrial Estate  
Portadown  
Seagoe Lower  
CRAIGAVON  
Co. Armagh  
BT63 5QE  
Telephone: 028 3839 9118  
Fax: 028 3839 9120  
Web: [www.riversagencyni.gov.uk](http://www.riversagencyni.gov.uk)

EPIC

Our Ref: DA2-11-2316  
Your ref: O/2009/0792/F

17<sup>th</sup> October 2011

Dear Sir,

**Re: NIE INTERCONNECTOR MOY TO CROSSBANE**

With reference to your consultation dated 10<sup>th</sup> October 2011, the applicant has produced a report and appendix demonstrating that:

- The flood risk assessment is appropriate to the development and the risks involved and has been carried out by a competent professional.
- The flood risk assessment demonstrates that the proposal is not at flood risk and will not cause / add flood risk to others.

The temporary deposition of materials on the floodplain during construction along with the timing and duration of the works should be managed to minimize the lost storage volumes.

Any safety issues associated with flood water will be a matter for the applicant's health and safety advisor.

**Under the terms of Schedule 6 of the Drainage (Northern Ireland) Order 1973 the applicant must submit to Rivers Agency for its consent any proposal to carry out works which might affect a watercourse.**

Please quote our reference number above on any future correspondence.

Yours faithfully

**S O'Neill**  
**Regional Planning Advisor (west)**





## **ROADS SERVICE CONSULTATION**

**Planning Application No: O/2009/0792/F**

**Location : Land to the rear of 152 Trewmount Road in the townland of Turleenan, Moy, Dungannon, Co Tyrone and overhead electrical transmission line from Trewmount Road, Moy to the townlands of Crossreagh and Crossbane, Co Armagh.**

**Proposal : Erection of a single circuit 400 kV overhead line from a new 400/275 Kv substation at Trewmount Road, Moy, Dungannon, Co Tyrone to the townlands of Crossreagh and Crossbane, Co Armagh where it would connect with the proposed network in the Republic of Ireland.**

**Applicant : Northern Ireland Electricity Plc.**

**(Armagh District Council)**

### **APPROVAL**

Roads Service has no objections to this proposal subject to the following informatives:-

A meeting with Roads Service Traffic and Transportation Section and Roads Service Section Office shall be planned well in advance of commencement of works on site to address all traffic management issues, management of construction traffic and associated haulage routes, proposed location of site depots and associated accesses, and proposed accesses to the construction site.

Provision shall be made to the satisfaction of Roads Service, to ensure that surface water does not flow from the site onto the public road.

Provision shall be made to the satisfaction of Roads Service, to accommodate the existing roadside drainage and to ensure that surface water does not flow from the public road onto the site.

Precautions shall be taken to prevent the deposit of mud and other debris on the adjacent road by vehicles travelling to and from the construction site. Any mud, refuse, etc, deposited on the road as a result of a development, must be removed immediately by the operator/contractor.

SIGNED:

DATE: 27 October 2011

THOMAS KELLY

Western Division  
County Hall  
Drumragh Avenue  
Omagh  
Co. Tyrone  
BT78 7AF

Application Number	O/2009/0792/F
Proposal	Erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Moy, Dungannon, Co Tyrone to the townlands of Crossreagh and Crossbane, Co Armagh where it would connect with the proposed network in the Republic of Ireland.
Address	Land to the rear of 152 Trewmount Road in the townland of Turleenan, Moy, Dungannon, Co Tyrone and overhead powerline from Trewmount Road, Moy to the townlands of Crossreagh and Crossbane, Co Armagh
Date of Consultation	10 <sup>th</sup> October 2011
Date of Response	18 <sup>th</sup> November 2011

Roads service has no objections to the content of the 2<sup>nd</sup> addendum to the Environmental Statement received on EPIC on 7<sup>th</sup> October 2011

Frank Wilson

Issued on behalf of Development Control



MINISTRY OF DEFENCE

# Defence Infrastructure Organisation

Department of the Environment  
Strategic Planning Division  
Millennium House  
2<sup>nd</sup> Floor  
17-25 Great Victoria Street  
Belfast BT2 7BN

Safeguarding  
c/o Land Management Services and Disposals NI  
Lisburn  
Co Antrim  
BT28 3NP

**Telephone:** +44 (0)289 22 63880  
**Fax:** +44 (0)289 22 63327  
[www.mod.uk/DIO](http://www.mod.uk/DIO)

Application Ref. **O/2009/0792/F**  
Workflow Ref. PAO17428

Date: 19/10/2011

Dear Sir,

## **Planning Application Consultation Return**

With reference to the above, DIO do not object to this planning application.

Comments

No Comments

Yours faithfully

[Area Co. Tyrone](#)





# Comhairle Contae Mhuineacháin Monaghan County Council

Date 11<sup>th</sup> October 2011  
Ref TG/CH

Acmhainní Daonna  
Human Resource  
047 30586

Airgeadas  
Finance  
047 30589

Na Bóithre  
Roads  
047 30597

Clár na dToghthóirí  
Register of Electors  
047 30547

Comhshaol  
Environment  
047 30583

Deontais Ardoideachais  
Higher Education Grants  
047 30550

Na hEalaíona  
Arts  
047 71114

Iasachtaí /Deontais Tithíochta  
Housing Loans/Grants  
047 30527

Leabharlann an Chontae  
County Library  
047 51143

Iótarcháin  
Motor Tax  
047 81175

Músaem an Chontae  
County Museum  
047 82828

Pleanáil  
Planning  
047 30532

Pobal & Fiontar  
Community & Enterprise  
047 30500

Rialú Dóiteáin/Foirgnimh  
Fire/Building Control  
047 30521

Sairbhísí Uisce  
Water Services  
047 30504

Planning Service NI,  
Millenium House,  
17 to 25 Great Victoria Street,  
Belfast,  
BT2 7BN

Re: Proposed 400Kv Tyrone – Cavan Interconnector Second ES Addendum.

A Chara,

I wish to acknowledge receipt of above.

Mise le meas,



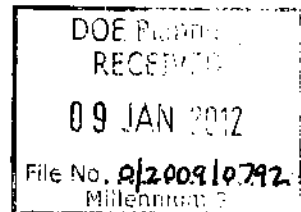
**Toirleach Gourley,**  
**S. Executive Planner**



**National  
Trust**

helen.kirk@nationaltrust.org.uk  
Direct line: (+44) 028 9751 2367  
6<sup>th</sup> January 2012

Mr Anthony McKay  
Strategic Studies Division  
DOE (NI)  
Millennium House  
17-25 Great Victoria Street  
Belfast  
BT2 7BN



Dear Mr McKay,

**Re: Planning Reference O/2009/0792/F**

**Land to the rear of 152 Trewmount Road in the townland of Turleenan, Moy, Dungannon, Co Tyrone and overhead electrical transmission line from Trewmount Road, Moy to the townlands of Crossreagh and Crossbane, Co. Armagh**

**Erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Dungannon, Co Tyrone to the townlands of Crossreagh and Crossbane, Co. Armagh where it would connect with the proposed network in the Republic of Ireland.**

The National Trust has considered the above application details and recent addendum to the EIA and now wishes to clarify our position given our land ownership and lands under covenant within the surrounding area of our mansion property at The Argory. Maintaining and enhancing the quality of our properties and their surrounding built and natural environment is increasingly important to us, with the Trust considering any third party planning application in terms of its potential environmental impact on the setting of our properties. Having studied the proposal and addendum we are concerned with the potentially detrimental environmental impact of the overhead lines, pylons and new substation on our property, the transmission corridors and the wider landscape. We are concerned with potential adverse impacts on the designated ASSIs, 'priority wetland habitats' including 'priority fen habitat', the River Blackwater and tributaries which contains both species of conservation concern and priority species, all of which will be impacted upon as a result of the proposals. Although the Trust does recognise the macro-economic need and benefits of the upgrade to the existing line, we consider that there will be significant visual impact as the proposed route traverses elevated ground and will be highly visible from surrounding scenic views in this environmentally sensitive landscape.

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Northern Ireland Regional Office  
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[www.nationaltrust.org.uk](http://www.nationaltrust.org.uk)

President: HRH The Prince of Wales  
Regional Chairman: Roy Bailie OBE  
Acting Regional Director: William Reid

Registered office:  
Heelis, Kemble Drive, Swindon, Wiltshire SN2 2NA  
Registered charity number 205846



[www.agiantcause.com](http://www.agiantcause.com)

The Trust is concerned with the residual impacts relating to the effects arising from the proposed development that will persist during the lifetime of the new infrastructure. We are particularly concerned with the environmental impact of high voltage overhead lines and in particular to the proposed siting of the substation which will be highly visible from our mansion house, The Argory and our surrounding land holdings. Given the visual impact of the whole scheme we would question the real need for overhead lines given the case for undergrounding cabling in terms of its aesthetic benefits and economic competitiveness. There does seem to be a missed opportunity to improve the environment and therefore, the value of the proposal. We would respectfully suggest to the Department should they consider putting in place relevant policy and supplementary planning guidance on the development of land crossed by high voltage overhead lines.

We would therefore, object on the following grounds:

### **Contrary to Planning Policy**

We consider that the proposal is contrary to planning policy, specifically PPS 6 which requires that the setting and integrity of heritage assets should be a consideration when assessing the effect of development, and in particular to Policies BH1, BH2, BH5, BH6 & BH11. PPS6 states that: *"Natural features, hills, valleys and sources of water form part of the wider setting of these sites, i.e. the area of historic landscape within which they functioned, and can help us to understand them."* We consider that the proposals will have a significant visual impact upon the setting and integrity of our mansion property at The Argory with particular concern arising from the close proximity of the new substation. We would question the choice of this particular location? Policy BH11 specifically relates to development affecting the setting of listed buildings such as The Argory. Policy states a development that would adversely affect the setting of a listed building will not normally be allowed therefore, we would welcome more detailed information on the alternative sites considered before the choice of location was made.

We note the absence of any photomontages and ground section profiles produced to show the relationship of the proposed development and the location of The Argory. We are strongly of the opinion that the siting of the proposed substation should be reconsidered in light of this setting issue. We believe when assessing the impact upon setting and integrity of cultural heritage sites the following guidelines should be considered:

- Original purpose of the asset & its associated setting – the function of the asset and how it was designed to fit within the landscape. Although the impact must be assessed on change to the existing setting the original intention must be taken into account.
- Associations – Sites or features associated with the asset that may form part of its setting or otherwise influence it.
- Visual Dominance – How visible the asset is within the landscape and how it was designed to be visible or otherwise.
- Views to and from associated sites – Whether the asset was designed to overlook particular sites, to view other assets from such sites or be seen from them.
- Importance – How significant the setting was designed to be for the asset.

Cont/d



We are particularly concerned with the screening provision for the new substation as we do not consider what is proposed to be adequate to allow integration with its rural surroundings. We have concerns over the short to medium term with planting species which will obviously take many years to mature in order to provide sufficient cover for this very large industrial type structure.

We are also keen to know the number of extant planning permissions within the transmission corridors since the application was first submitted in 2009?

In relation to the Historic Built Environment we note that some of the most sensitive areas of the landscape along the proposed line are the settings of numerous important archaeological sites. These are concentrated to the south and west of Armagh including Navan Fort, one of the most important archaeological sites in Ireland and candidate WHS. Local skylines and drumlin summits are also sensitive, particularly when they are the sites of ancient raths. One of the principal objectives of the Armagh Area Plan (2004) Para 3.2 is 'to preserve and enhance the archaeological and historical heritage of the District'. We have noted that NIEA "Sites and monuments protected under the Historic Monuments & Archaeological Objects (NI) Order (1995)" states that there are 14 raths, 2 enclosures, 2 burial mounds, 2 ancient churches with graveyards, 2 standing stones, 1 holy well, 1 megalithic tomb and 1 cross have been identified within a 1km radius of the proposed line route. The landscape setting of these archaeological sites must be a priority for conservation. The Armagh Area Plan (2004) Para 7.0, states 'development will not normally be permitted which would be likely to damage or prejudice the essential character of areas of historic landscapes, archaeological sites and monuments or their settings.' The proposed line passes close to a group of important archaeological sites north of the Armagh – Killylea Road including Haughey's Fort (Grid Ref: H8351 4529) and The King's Stables (Grid Ref: H 8388 4546). These sites are protected under the Historic Monuments & Archaeological Objects NI Order (1995). The Trust considers that the view west from Navan Fort would be compromised. We also consider that Lisglynn Fort (Grid Ref: H 106 3915), an Early Christian rath and Souterrain is one of the few square forts in Ireland and the views both towards & from it would be significantly compromised. In our opinion the submitted photomontages are inadequate and there is still insufficient assessment of impact on landscape character, as well as, inadequate assessment of the full archaeological impact.

We believe from our members that local feeling is very anti-development on this proposal for many reasons including that the overhead lines and pylons will be overbearing and result in adversely affecting the residential amenity of their properties given the perceived/real threat of adverse health effects. The Trust believes this is a legitimate planning consideration and has been the reason for many proposed mobile phone masts being refused permission due to their proximity to residential dwellings.

### **Natural Environment**

The area has a rich diversity of habitats, within the farmland dominated landscape of the Armagh Drumlin Area, including damp grasslands, hedges, woods, arable and fens, giving rise to diversity not only of plant species but also of mammals, insects and birds. Several of the bird Priority Species are recorded - bullfinch, song thrush, linnets, yellowhammer, reed

Cont/d

bunting and curlew; with curlew, snipe and lapwing are specifically recorded from damp grasslands. Within the Loughgall Orchard Belt, in the farmland generally, bird Priority Species recorded includes song thrush, spotted flycatcher, tree sparrow, skylark, reed bunting and linnet. The proposal will also have significant impacts upon the local sensitive ecological areas and species, including potential detrimental impacts on otters, bats, wildcats, pine martins, red squirrels and water voles.

The construction related impacts of the proposed development will continue into the longer term. The proposed erection of the new substation and new towers will require permanent land take, which will entail direct habitat loss, especially for those 31 towers which are located within a hedgerow. The impact on hedgerows is likely to result in a loss of the area's conservation significance. It is our opinion that the species composition of species-rich hedgerows, a NI Priority Habitat, will be affected by the proposed development. Hedgerows act as wildlife corridors for dispersing and feeding birds and mammals, as well as flight lines for bats. The overhead line will occupy airspace above that which Leisler's bats will generally use for foraging in these open grassland habitats. The likely impact of the proposal and in particular the substation construction on bat species should be considered in further detail.

The siting of some towers in hedgerows in order to reduce the loss of land of agricultural value will require the removal of limited lengths of hedgerow to accommodate the towers. The construction of the proposed overhead lines will also require some cutting back of hedgerow trees, with potential for removal of bat roost sites. The major impact will be on mature trees, which may require lopping or removal, thus reducing the structural diversity of affected hedgerows and potentially the structure of invertebrate prey populations. In places lines of mature or semi-mature trees will be removed in order to provide clearance for conductors, and to protect towers within falling distance of the trees. Removal of mature hedgerow trees will have a detrimental impact on local habitat diversity, and in those areas where hedgerows are the only remaining features of significant conservation value, this impact will be extremely significant. Although individually small in extent, the footprints of the towers will cumulatively increase the area that is no longer available.

We believe that the siting of the proposed substation will alter the site ecology substantially. At present the site is under improved grassland and the proposed erection of a substation will require land take of these grassland habitats. The substation will increase the area of land that is no longer available to wildlife as a result of the provision of a built surface, limiting the possibilities for colonisation by wildlife communities and species. The provision of the proposed substation will require the removal of existing grassland and hedgerow habitats, together with a treeline which contains mature oaks. Removal of these mature trees may well reduce the potential roost sites available to bats for short term shelter or for longer periods. The legislative requirements with regard to bats are contained in European instruments (Habitats Directive 92/43/EEC) and are implemented in Northern Ireland in the Conservation (Natural Habitats etc) Regulations 1995, as amended. These requirements, in particular addressing the protection of bat species and the maintenance of the range of bat species, must be considered alongside the impacts of the proposed development.

Cont/d

As stated before, the Trust has significant land holdings within the vicinity of The Argory and let considerable acreage out on conacre to local farmers. As a result of this we are concerned over a number of agricultural issues within the transmission corridors including the potential for the sterilisation of land; animal health issues; crop reductions; farm quality assurance issues; future expansion plans of farms being hindered due to a restriction corridor being placed on both sides of the proposed line and the perceived treat to the safety of farm workers in the locality.

In relation to wetlands and lakes again the area has a rich diversity. Within the Armagh Drumlin Area, there are numerous small fens, which are seen as not only of local importance for biodiversity, but also as of national importance. Within the Loughgall Orchard Belt, fens form a mosaic with reed beds around loughs, for example at Edenderry Lough. The River Blackwater has river water-crowfoot as well as the white-clawed crayfish, salmon, trout and dollaghan. The otter is widespread. Loughs and river valleys, including the network of small streams that characterise the area to be dissected by the North South interconnector are important components of the landscape which should be conserved. The Blackwater River Valley is a rural, peaceful, undisturbed and unspoilt valley with outstanding scenic qualities. This small-scale enclosed character of the valley ensures that large scale or extensive development would be intrusive.

Woodlands occupy around 2% of the Armagh Drumlin area and less than 4% of the Loughgall Orchard Belt compared with around 5.6% for Northern Ireland as a whole. According to the NIEA survey of landscape character areas within N. Ireland, 'the management and ongoing planting of woodlands is essential to conserve the special landscape character'. The Ancient Woodland Inventory, carried out by the Woodland Trust, identified 3 areas of ancient woodland potentially affected by the proposed North/South Interconnector. These are:

Artasooley (Grid Ref: 8249) in the Loughgall Orchard Belt (ID: 1823)

Norton's Crossroads (Grid Ref: 7938) in the Armagh Drumlin Area (ID: 1388)

Norton's Crossroads (Grid Ref: 8038) in the Armagh Drumlin Area (ID: 1389)

The National Trust is concerned as the proposed line would pass very close to these areas of ancient woodland which form part of our precious natural heritage and provide a unique habitat for many of our endangered species. Provision and maintenance of corridors through wooded belts will modify woodland structure and may allow penetration of these woodlands by tall herb and scrub species more characteristic of disturbed ground.

We look forward to hearing from you in due course.

Yours sincerely



**Helen Kirk**  
**Consultant Planner for NI**

Cont/d





**NERL Safeguarding**

NATS – CTC

Mailbox 6

4000 Parkway

Solent Business Park

Whiteley

Hampshire

PO15 7FL

T: 01489 444687

F: 01489 444013

E: nerlsafeguarding@nats.co.uk

Via online portal

07 March 2013

Your Ref: O/2009/0792/F

Our Ref: SG2562

Dear Sir/Madam,

**Proposal: Erection of a single circuit overhead line.**

**Location: Land to the rear of 152 Trewmount Road, Turleenan, Moy Dungannon to Crossleagh and Crossbane.**

The proposed development has been examined from a technical safeguarding aspect and does not conflict with our safeguarding criteria. Accordingly, NATS (En Route) Limited has no safeguarding objections to this proposal.

Please be aware that this response applies specifically to the above consultation based on the information supplied at the time of this application. If any changes are proposed to the information supplied to NERL in regard to this application (including the installation of wind turbines) which become the basis of a full, revised, amended or further application for approval, then as a statutory consultee NERL requires that it be further consulted on any such changes prior to any planning permission or any consent being granted.

Yours faithfully,

Laoise Magennis

Technical Administrator

for & on Behalf of NATS (En Route) Ltd

Mr A Moore  
Strategic Planning Division  
Millennium House  
2<sup>nd</sup> Floor  
17-25 Great Victoria Street  
Belfast  
BT2 7BN

**Date: 23 February 2012**  
**Telephone: 028 905 69615**  
**Your Ref: O/09/0792**  
**Our Ref: 17178-11,12 & 13**

**Full**  
**RE: Further EI-Erection of a single circuit 400kv overhead line (33.9km) from a new 400/275KV substation at Trewmount Road Moy to the border where it connects with the proposed network in the ROI**  
**Location: Land to the rear of 152 Trewmount Road in the townland of Turleenan Moy Dungannon Co Tyrone and overhead electrical transmission line from Trewmount Road Moy to the townlands of Crossreagh and Crossbane Co Armagh**

Dear Mr Moore

I refer to your consultation letter for the above planning application which was received in this office on 21 February 2012. We acknowledge receipt of the 2<sup>nd</sup> Addendum to the Environmental Statement. We also acknowledge receipt of objections submitted by Michael Burroughs Associates and Corvus Consulting.

### **Position**

NIEA, Natural Heritage has **no objection** to the proposed development **subject to conditions** which would overcome our concerns.

### **Appraisal of the proposal: Natural Heritage Interest**

The 2<sup>nd</sup> Addendum to the Environmental Statement (ES) includes the results of further surveys carried out subsequent to the submission of the ES and 1<sup>st</sup> Addendum to the ES. We have considered the information contained in the 2<sup>nd</sup> Addendum and would like to provide the following comments in relation to this:

### **Bat surveys**

Further bat survey work was carried out in 2011 and is presented in the 2<sup>nd</sup> Addendum to the ES. This is in addition to the 2009 and 2010 survey work which has already been undertaken. The 2011 survey work was carried out as car based monitoring, covering an extensive area (56km), with two nights surveying per month being carried out between May and September. This survey

work, in addition to the earlier bat survey work, did not find any significant bat roosts present within the survey area. The work did show that bats were using areas of the proposed line route for foraging and commuting bats. A series of mitigation and enhancement measures have been proposed to minimise potential risks to the local bat population. These include the inspection of trees to be lopped or removed for potential roost sites, the erection of more than 100 bat boxes and the compensatory planting of additional hedgerows. We consider that these mitigation and enhancement measures should be implemented as planning conditions.

### **Badger and Otter surveys**

Further badger and otter survey work was carried out during May and June 2011. This is in addition to the badger and otter surveys which were carried out in 2005 and 2008. No evidence of badger activity was recorded within 100m of the proposed substation site, with a total of six setts (four active and two unoccupied) recorded either 100m from the proposed tower locations and 25m from the proposed overhead lines. No evidence of otter activity was recorded in the proposed line route. Mitigation measures proposed to minimise risks include pre-construction surveys at each tower location, and for any works within 25 metre of badger setts to be carried out under wildlife licence. The pre-construction surveys proposed will also determine if otter activity has occurred. We consider that these mitigation measures should be implemented as planning conditions.

### **Whooper swan surveys**

Winter surveys to determine the movement of whooper swans was carried out in the winter of 2010-2011. This is in addition to the surveys carried out in 2006-2007, 2007-2008 and 2008-2009. The surveys did not record the passage of birds on the flightlines between feeding and roosting sites recorded during the study and that the proposed development did not present a significant risk of whooper swan collision at the individual level. To reduce the possibility of individual collisions, we consider that bird deflectors should be inserted on lines that cross the Blackwater River Valley.

### **Breeding bird surveys**

Breeding bird surveys carried out in 2011 are presented in the 2<sup>nd</sup> Addendum to the ES. This is in addition to the surveys carried out in 2005-2008. A total of 43 species was recorded during the 2011 surveys, providing information on the general species assemblage of the proposed line route. In order to minimise disturbance to breeding birds we consider that any removal or cutting of hedgerows and trees should take place outside the bird breeding season which lasts from 1 March to 31 August.

### **Consideration of objections**

We have considered the objections submitted to Planning and would like to comment specifically on Section 15.5 of the Executive Summary of the objection submitted by Michael Burroughs Associates and the content of the Ecology Report submitted by Corvus Consulting.

Section 15.5 of the Executive Summary of the objection submitted by Michael Burroughs Associates alleges that the methodologies within the ES (including the 1<sup>st</sup> and 2<sup>nd</sup> Addenda) used to assess the presence and distribution of bats, the presence of badgers and to identify newt habitats are inadequate. We do not agree with this comment and would highlight that an extensive



series of surveys for bats has been carried out in 2009, 2010 and 2011 along the route of the proposed interconnector and presented in the ES and 1<sup>st</sup> and 2<sup>nd</sup> Addenda. We would also highlight that badger surveys have been carried out in 2005, 2008 and 2011 along the route of the proposed line and presented in the ES and 1<sup>st</sup> and 2<sup>nd</sup> Addenda.

We note the comments contained in the Ecology Report submitted by Corvus Consulting. The report has referred to the need for surveys for Marsh Fritillary Butterflies, and for Common Lizard and Smooth Newts. We do not consider that surveys are required in this instance for these species and we do not consider that the line route or proposed tower locations are adjacent to habitat features used for breeding purposes by these species. We do not consider that there is a reasonable likelihood that there will be adverse impacts on these species as a result of this proposal.

## **Recommendations**

Should approval be granted, the following Conditions and Informatives should be attached to the Decision Notice.

### **Conditions**

Bat boxes shall be erected on the site in areas to be agreed with the Department within one year of construction.

**Reason:** To enhance the roosting potential on site for bats.

An annual report detailing use of the bat boxes erected in the areas to be agreed with the Department for a period of five years after the installation of the structure.

**Reason:** To monitor the use of the bat boxes by roosting bats.

Once all mature trees to be removed and lopped have been identified, any potential roost sites shall be inspected for the presence of bats by an experienced bat worker or surveyor on the day of felling. If evidence of bats is found during inspection, all work shall cease immediately and advice shall be sought from the Northern Ireland Environment Agency Wildlife Inspector.

**Reason:** To minimise the impact of the proposal on the local bat population.

All works to take place within 25 metres of existing badger sett entrances on site shall be supervised by an NIEA Protected Species Licence holder.

**Reason:** to allow temporary exclusion of badgers on site.

Bird deflectors shall be attached to the structure shall be in areas to be agreed with the Department

**Reason:** To minimise potential bird collisions with the structure.

No hedge cutting or tree felling/pruning shall occur between 1 March and 31 August.

**Reason:** To minimise disturbance to breeding birds.

### **Informatives**

The applicant's attention is drawn to The Conservation (Natural Habitats, etc) Regulations (Northern Ireland) 1995 (as amended), which states that it is an offence to deliberately capture,

injure or kill a wild animal of a European protected species included in Schedule II of these Regulations, which includes otters and all species of bat. It is also an offence;

- (a) Deliberately to disturb such an animal while it is occupying a structure or place which it uses for shelter or protection;
- (b) Deliberately to disturb such an animal in such a way as to be likely to:
  - (i) affect the local distribution or abundance of the species to which it belongs;
  - (ii) Impair its ability to survive, breed or reproduce, or rear or care for its young; or
  - (iii) Impair its ability to hibernate or migrate;
- (c) Deliberately to obstruct access to a breeding site or resting place of such an animal; or
- (d) To damage or destroy a breeding site or resting place of such an animal.

If there is evidence of bat and/or otter activity on the site, all works must cease immediately and further advice must be sought from the Wildlife Team, Northern Ireland Environment Agency, Klondyke Building, Cromac Avenue, Gasworks Business Park, Belfast BT72JA. Tel. 028 905 69605

The applicant's attention is drawn to Article 10 of the Wildlife (Northern Ireland) Order 1985 (as amended) under which it is an offence to intentionally or recklessly kill, injure or take any wild animal included in Schedule 5 of this Order, which includes the badger (*Meles meles*). It is also an offence to intentionally or recklessly: damage or destroy, or obstruct access to, any structure or place which badgers use for shelter or protection; damage or destroy anything which conceals or protects any such structure; disturb a badger while it is occupying a structure or place which it uses for shelter or protection.

Any person who knowingly causes or permits to be done an act which is made unlawful by any of these provisions shall also be guilty of an offence.

Any works within 25 metres of a badger sett will require a wildlife licence to be obtained from the NIEA Wildlife Inspector. Licence applications should be made to the Wildlife Inspector, Northern Ireland Environment Agency, Klondyke Building, Cromac Avenue, Gasworks Business Park, Belfast BT7 2JA. Tel. 028 905 69605

The applicant's attention is drawn to Article 10 of the Wildlife (Northern Ireland) Order 1985 (as amended) under which it is an offence to intentionally or recklessly kill, injure or take any wild animal included in Schedule 5 of this Order, which includes the smooth newt (*Lissotriton vulgaris*). It is also an offence to intentionally or recklessly: damage or destroy, or obstruct access to, any structure or place which newts use for shelter or protection; damage or destroy anything which conceals or protects any such structure; disturb a newt while it is occupying a structure or place which it uses for shelter or protection.

Any person who knowingly causes or permits to be done an act which is made unlawful by any of these provisions shall also be guilty of an offence.

If there is evidence of newts on the site, all works must cease immediately and further advice sought from the Wildlife Team, Northern Ireland Environment Agency, Klondyke Building, Cromac Avenue, Gasworks Business Park, Belfast BT7 2JA. Tel. 028 905 69605

The applicant's attention is drawn to Article 4 of the Wildlife (Northern Ireland) Order 1985 (as amended) under which it is an offence to intentionally or recklessly kill, injure or take any wild bird. It is also an offence to intentionally or recklessly: take, damage or destroy the nest of any wild bird while that nest is in use or being built; or take or destroy an egg of any wild bird. If any person intentionally or recklessly disturbs any wild bird while it is building a nest or is in, on or near a nest containing eggs or young; or disturbs dependent young of such a bird they shall be guilty of an offence.

Any person who knowingly causes or permits to be done an act which is made unlawful by any of these provisions shall also be guilty of an offence.

**It is therefore advised that tree and hedge loss should be kept to a minimum and removal should not be carried out during the bird breeding season between 1<sup>st</sup> March and 31<sup>st</sup> August.**

Yours sincerely

**Development Management Team**



## PLANNING RESPONSE

Planning Ref: O/2009/0792/F  
NIEA Ref: HB13/11/039 + HB13/11/040

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**Proposal:** Land to the rear of 152 Trewmount Road in the townland of Turleenan, Moy, Dungannon, Co Tyrone and overhead electrical transmission line from Trewmount Road, Moy to the townlands of Crossreagh and Crossbane, Co. Armagh.

**Location:** Erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Moy, Dungannon, Co Tyrone to the townlands of Crossreagh and Crossbane, Co Armagh where it would connect with the proposed network in the Republic of Ireland.

**Date Consulted:** 10<sup>th</sup> October 2011  
**Date of Response:** 15<sup>th</sup> November 2011

On receipt of further information, NIEA:HBU discussed the proposal again at our Forum meeting on Monday 14<sup>th</sup> November 2011. We have no further objection to the proposal.

**Issued on behalf of**  
**NIEA: Historic Buildings Unit**

Mr A Moore  
DOE Planning Division  
Millennium House  
17-25 Great Victoria Street  
Belfast  
BT2 7BN

16 November 2011

Your Ref: O/2009/0792/F  
Our Ref: WMU/PC/ 17901-2

Dear Mr A Moore

**Type: Full**

**RE: Erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Moy, to the townlands of Crossreagh and Crossbane, Co Armagh where it would connect with the proposed network in the Rol.**

**Location: Land to the rear of 152 Trewmount Road in the townland of Turleenan, Moy, Dungannon and overhead electrical transmission line from Trewmount Road, Moy to the townlands of Crossreagh and Crossbane, Co Armagh**

The response from the Water Management Unit (WMU) of Northern Ireland Environment Agency (NIEA) to the above planning application is as follows:-

WMU is satisfied with the additional information provided; all comments in the original response remain valid.

WMU note the intension to carry out well surveys for those pylon locations where dewatering will prove necessary and would have no further comments to make at this time.

It is an offence under the Water (Northern Ireland) Order 1999 to discharge or deposit, whether knowingly or otherwise, any poisonous, noxious or polluting matter so that it enters a waterway or water in any underground strata. Conviction of such an offence may incur a fine of up to £20,000 and / or three months imprisonment.

**Issued on behalf of  
Water Management Unit  
Northern Ireland Environment Agency**

Landscape Architects Branch recognises that the proposals will have significant visual impacts on local environments and receptors but we are satisfied that the route selected has been determined by an environmental impact assessment that addresses the need to avoid direct impacts on designated areas, avoids large settlements, avoids areas with major environmental constraints and attempts to minimise impacts on individual dwellings and on the wider environment.

Although the portion of the proposed line between Tower 89 and the border does cross elevated land it is difficult to see how a linear development of this nature could avoid higher land somewhere along it's length unless it followed a meandering route confined to lower land and river valleys, which could potentially impact on greater numbers of receptors and sensitive landscapes.

We agree with the conclusion of the Environmental Statement Addendum that “no additional significant adverse landscape and visual impacts were identified as a result of the increased study area, additional viewpoints, or from further consideration of the landscape character.”

If I can be of any further assistance please do not hesitate to contact me.

Issued on behalf of  
M MILLER  
Principal Landscape Architect  
Landscape Architects Branch ( LAB )  
Planning Service HQ  
2 February 2011





Department of  
**Agriculture and  
Rural Development**

[www.dardni.gov.uk](http://www.dardni.gov.uk)

**Veterinary Service**

---

Application Reference:	O/2009/0792/F
Proposal:	Erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Moy, Dungannon, Co Tyrone to the townlands of Crossreagh and Crossbane, Co Armagh where it would connect with the proposed network in the Republic of Ireland.
Location:	Land to the rear of 152 Trewmount Road in the townland of Turleenan, Moy, Dungannon, Co Tyrone and overhead electrical transmission line from Trewmount Road, Moy to the townlands of Crossreagh and Crossbane, Co Armagh.
Date Consulted:	27/1/2011
Date of Response:	9/3/2011

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I have considered this proposal and on the basis of the information available to me I do not know of any animal health or welfare implications that would effect this proposal provided:

1. The boundary fences with the surrounding fields, which contain livestock, remain stock proof during construction.
2. Livestock do not have access to the materials used in the construction /erection.
3. Materials for the construction /erection are not stored where vermin could have access to them, and there is adequate vermin control on site.
4. The construction and erection of the proposed line and new substation does not result in contamination of surrounding agricultural land and waterways by building materials, their by-products or leach ate from the site.
5. Livestock do not have access to electricity cables or other live components.
6. The proposal does not compromise any of the five essential welfare freedoms of livestock in the vicinity i.e. freedom from hunger, thirst or malnutrition, provision of shelter, freedom from injury or disease, freedom from fear, and freedom to express their normal behaviour.
7. Proper cleaning and disinfection of humans and vehicles/equipment/tools carried out prior to entry and exit from farmlands accessed during construction / erection.

Regards,

Veterinary Service



Planning Advisory Unit  
44 Seagoe Industrial Estate  
Portadown  
Seagoe Lower  
CRAIGAVON  
Co. Armagh  
BT63 5QE  
Telephone: 028 3839 9118  
Fax: 028 3839 9120  
Web: [www.riversagencyni.gov.uk](http://www.riversagencyni.gov.uk)

Fay Lagan  
Aecom  
24 Linenhall Street  
Belfast  
BT3 9LA

Our Ref: DA2-11-2316

6<sup>th</sup> September 2011

Dear Sir,

**Re: NIE INTERCONNECTOR MOY TO CROSSBANE**

If consulted by Planning Service on this proposal Rivers Agency will advise that the applicant has produced a report and appendix demonstrating that:

- The Flood Risk Assessment is appropriate to the development and the risks involved and has been carried out by a competent professional.
- The flood risk assessment demonstrates that the proposal is not at flood risk and will not cause / add flood risk to others.

The temporary deposition of materials on the floodplain during construction along with the timing and duration of the works should be managed to minimize the lost storage volumes.

**Under the terms of Schedule 6 of the Drainage (Northern Ireland) Order 1973 the applicant must submit to Rivers Agency for its consent any proposal to carry out works which might affect a watercourse.**

Please quote our reference number above on any future correspondence.

Yours faithfully

**S O'Neill**  
Regional Planning Advisor (west)

**Lagan, Fay**

---

**Subject:** FW: N-S NIEA Chat (RE Methodology)

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**From:** Parker, Matthew J.  
**Sent:** 20 December 2010 13:10  
**To:** Maclean, Helen R; Doyle, Carey  
**Subject:** N-S NIEA Chat

Hi Helen/Carey,

The conversation I had with Natalie O'Rourke was basically ensuring that our methodology for dealing with the issues raised earlier by Anne Menary et al was acceptable to NIEA.

Natalie said that visits to the specific sites and setting descriptions of these, photomontages, architects drawings showing scaled comparisons of the pylons compared with the houses, and a plan indicating distances/pylons and route (which we had already provided them!) will be enough to satisfy these requirements.

Please let me know if you require anything further

Best regards

Matt

**Matt Parker BA (Hons), PG Dip, AlfA**  
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16 April 2008

Billy Graham  
Chief Operating Officer  
Northern Ireland Electricity  
Fortwilliam House  
Edgewater Road  
BELFAST  
BT3 9JQ

Dear Billy

As you are aware, the all-island Single Electricity Market (SEM) has been operating since 1 November 2007. On behalf of the Northern Ireland Authority for Utility Regulation (the "Authority") I, therefore, thought it timely to write to you to underscore the importance of developing further interconnector capacity between the electricity transmission systems of Northern Ireland and the Republic of Ireland.

Article 9 of the Electricity (Single Wholesale Market) (Northern Ireland) Order 2007, introduced a principal objective on the Authority (and also on the Department and the SEM Committee) in relation to protecting the interests of consumers of electricity in Northern Ireland and Ireland supplied by authorised persons, wherever appropriate by promoting effective competition between persons engaged in, or in commercial activities connected with, the sale or purchase of electricity through the SEM. In addition there is a statutory duty on NIE as a Licence holder to take such steps as are reasonably practicable to facilitate competition in the supply and generation of electricity – which the SEM promotes.

Currently the transmission of electricity between the two systems is constrained by the capacity of the existing interconnector. This constraint reduces the efficiency of the SEM, resulting in higher electricity costs being borne by consumers both north and south of the border. The Authority estimates that these constraint costs represent an additional burden on electricity consumers in the order of £13m to £19m per annum. These constraint costs will continue to be borne by consumers until such time as further physical interconnector capacity is built. In view of this I want to emphasise the importance the Authority places on removing the constraints on the transmission of electricity across the island of Ireland and in turn the potential contribution to be made to the economy in Northern Ireland through

lower electricity costs. There are imperative economic reasons for construction of the interconnector.

I recognise that you need to continue to work with SONI and with Eirgrid in the Rol in relation to this project. I understand that NIE has now identified its preferred route for the construction of additional interconnector capacity in Northern Ireland. I also note the concerns of residents living near the proposed route, including the suggestion that the construction should be achieved through an underground solution as opposed to an overhead line.

On the question of a possible underground solution, the promotion of efficiency and economy on the part of transmission licensees is an important aspect of how the Authority carries out its statutory functions. In addition, NIE has a statutory responsibility 'to ensure the development and maintenance of an efficient, co-ordinated and economical system of electricity transmission which has the long-term ability to meet reasonable demands for the transmission of electricity.' Current indications are that the cost of putting the interconnector underground would be greater than the cost of building an overhead line. While a variety of figures have been quoted as regards the magnitude of this difference in cost, the Authority considers that the interests of all electricity consumers in Northern Ireland are unlikely to be protected if additional unnecessary cost is incurred through placing the line underground.

A further concern for the Authority would be the setting of a precedent for the use of undergrounding for additional future construction of extensions to the transmission network, e.g. as a result of the recent all-island grid study into renewable generation.

I would ask you to continue to keep me updated regularly on the progress you are making with this project.

---

Yours sincerely



**Iain Osborne**  
**Chief Executive**

---

## Lagan, Fay

---

**Subject:** FW: Interconnector protected species surveys.

---

**From:** McIntosh, Andrew [<mailto:Andrew.McIntosh@doeni.gov.uk>]

**Sent:** 20 September 2011 15:39

**To:** Loughran, Cormac

**Subject:** RE: Interconnector protected species surveys.

Cormac,

I can advise that it was not considered likely that Common Lizards or Marsh Fritillary butterflies would be present in the location of the proposed interconnector because of a lack of potentially suitable habitat. Therefore surveys were not required for these species.

Regards

Andrew Mc Intosh

---

**From:** Loughran, Cormac [<mailto:cormac.loughran@aecom.com>]

**Sent:** 20 September 2011 14:43

**To:** McIntosh, Andrew

**Subject:** Interconnector protected species surveys.

Andrew,

The requirement for protected species surveys were considered early in the project. However species specific surveys for Common Lizards & Marsh Fritillary Butterfly) were scoped out due to the absence of suitable habitat (for either of these species) within the study area. Therefore specific surveys were deemed to be unnecessary; can you confirm that NIEA agreed with this approach and outcome?

Kind regards

**Cormac Loughran** MSc CEnv MIEEM

Principal Ecologist

Environment

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Mr A Moore  
Planning Service  
Planning Service Headquarters  
Millennium House  
17-25 Great Victoria Street  
Belfast  
BT2 7BN

**Date: 5 April 2011**  
**Telephone: 028 905 69615**  
**Your Ref: O/09/0792**  
**Our Ref: 17178-7& 8**

**Full**  
**RE: Erection of a single circuit 400kv overhead line (33.9km) from a new 400/275KV substation at Trewmount Road Moy to the border where it connects with the proposed network in the Republic of Ireland**  
**Location: Land to the rear of 152 Trewmount Road in the townland of Turleenan Moy Dungannon Co Tyrone and overhead electrical transmission line from Trewmount Road Moy to the townlands of Crossreagh and Crossbane Co Armagh**

Dear Mr Moore

I refer to your consultation letter for the above planning application which was received in this office on 19 January 2011. We acknowledge receipt of an Addendum to the Environmental Statement (ES) (Volumes 1-3). We also acknowledge receipt of an objection statement.

### **Position**

Following further consideration of the information contained within the ES and Addendum, NIEA, Natural Heritage has **no objection** to the proposed development **subject to conditions** which would overcome our concerns.

### **Appraisal of the proposal: Natural Heritage Interest**

NIEA, Natural Heritage considers that a newt survey is not required for this proposal as it is unlikely that there are waterbodies which are suitable as breeding ponds for newts within 200 metres of the proposed line route.

Following further consideration of the ES and Addendum we note that the waterbodies adjacent to Towers 32, 43 and 83 are identified as "watercourses" as shown on the legend of Figure 10.1 to 10.10 (Habitat Map) of Volume 4 of the ES. Towers 22 and 23 are located to the east of a pond as shown on the legend of Figure 10.1 to 10.10 (Habitat Map) of Volume 4 of the ES. The attributes of this pond and elements of the surrounding landform are unsuitable for newts – this has been identified in the aerial photography within Volume 4 of the ES, including Figures 1.7, 10.13 and

13.7c.

The results of the badger survey presented in the ES addendum record low incidences of badger evidence and activity within 150 metres of any tower locations. We welcome the intention to undertake a pre-construction badger survey. Should this survey record any new badger setts then a licence will be required for any works to be carried out within 25m of the entrances of any occupied setts.

The bat survey report concludes that the proposal is unlikely to have an adverse impact on the areas local bat population. There will be a loss of some trees which may potentially be used by bats. We consider that once all mature trees to be removed and lopped have been identified, they shall be inspected for the presence of bats by an experienced bat worker or surveyor on the day of felling.

## **Recommendations**

Should approval be granted, the following Conditions should be attached to the Decision Notice.

## **Conditions**

Once all mature trees to be removed and lopped have been identified, any potential roost sites shall be inspected for the presence of bats by an experienced bat worker or surveyor on the day of felling. If evidence of bats is found during inspection, all work shall cease immediately and advice shall be sought from the Northern Ireland Environment Agency Wildlife Inspector.

**Reason:** To minimise the impact of the proposal on the local bat population.

Deflectors shall be inserted on lines that cross the Blackwater River Valley.

**Reason:** To reduce the risk of collision to swans.

Works in the vicinity of watercourses shall avoid contact with the watercourse surface and bed.

**Reason:** To minimise the impact of the proposal on bats.

All works to take place within 25 metres of existing badger sett entrances on site shall be supervised by an NIEA Protected Species Licence holder.

**Reason:** To mitigate potential impacts to badgers on the site.

## **Informatives**

The applicant's attention is drawn to The Conservation (Natural Habitats, etc) Regulations (Northern Ireland) 1995 (as amended), which states that it is an offence to deliberately capture, injure or kill a wild animal of a European protected species included in Schedule II of these Regulations, which includes all species of bat. It is also an offence;

(a) Deliberately to disturb such an animal while it is occupying a structure or place which it uses for shelter or protection;

(b) Deliberately to disturb such an animal in such a way as to be likely to;

(i) Affect the local distribution or abundance of the species to which it belongs;

(ii) Impair its ability to survive, breed or reproduce, or rear or care for its young; or

(iii) Impair its ability to hibernate or migrate;

- (c) Deliberately to obstruct access to a breeding site or resting place of such an animal; or
- (d) To damage or destroy a breeding site or resting place of such an animal.

To avoid any breach of The Conservation (Natural Habitats, etc) Regulations (Northern Ireland) 1995 (as amended), all mature trees and/or buildings to be removed should be checked on the day of felling for the presence of bats, by an experienced bat worker or surveyor.

If there is evidence of bat activity on the site, all work must cease immediately and further advice must be sought from the Wildlife Officer, Northern Ireland Environment Agency, Klondyke Building, Cromac Avenue, Gasworks Business Park, Lower Ormeau Road, Belfast. BT72JA. Tel. 02890 569623

The applicant's attention is drawn to The Conservation (Natural Habitats, etc.) Regulations (Northern Ireland) 1995 (as amended), which states that it is an offence to deliberately capture, injure or kill a wild animal of a European protected species included in Schedule II of these Regulations, which includes otters (*Lutra lutra*). It is also an offence;

- (a) Deliberately to disturb such an animal while it is occupying a structure or place which it uses for shelter or protection;
- (b) Deliberately to disturb such an animal in such a way as to be likely to:
  - (i) affect the local distribution or abundance of the species to which it belongs;
  - (ii) Impair its ability to survive, breed or reproduce, or rear or care for its young; or
  - (iii) Impair its ability to hibernate or migrate;
- (c) Deliberately to obstruct access to a breeding site or resting place of such an animal; or
- (d) To damage or destroy a breeding site or resting place of such an animal.

If there is evidence of otter activity on the site, all work must cease immediately and further advice must be sought from the Wildlife Officer, Northern Ireland Environment Agency, Klondyke Building, Cromac Avenue, Gasworks Business Park, Lower Ormeau Road, Belfast. BT72JA. Tel. 02890 569623

The applicant's attention is drawn to the Wildlife (Northern Ireland) Order 1985 which indicates that it is an offence to intentionally kill, injure or take any wild animal included in Schedule 5 of this Order which includes the badger (*Meles meles*). It is also an offence to disturb these animals or damage or obstruct access to their place of refuge, or damage or destroy anything which conceals or protects their place of refuge.

If there is evidence of badger on the site, all work must cease immediately and further advice must be sought from the Wildlife Officer, Northern Ireland Environment Agency, Klondyke Building, Cromac Avenue, Gasworks Business Park, Lower Ormeau Road, Belfast. BT72JA. Tel. 02890 569623

The applicant's attention is drawn to the Wildlife (Northern Ireland) Order 1985 which indicates that it is an offence to intentionally kill, injure or take any wild animal included in Schedule 5 of this Order which includes the smooth newt (*Lissotriton vulgaris*). It is also an offence to disturb these animals or damage or obstruct access to their place of refuge, or damage or destroy anything which conceals or protects their place of refuge. Tel. 02890 569623



If there is evidence of newts on the site, all work must cease immediately and further advice must be sought from the Wildlife Officer, Northern Ireland Environment Agency, Klondyke Building, Cromac Avenue, Gasworks Business Park, Lower Ormeau Road, Belfast. BT72JA. Tel. 02890 569623

The applicant's attention is drawn to the Wildlife (Northern Ireland) Order 1985 which states that it is an offence to intentionally kill, injure or take any wild bird. It is also an offence to take or damage or destroy the nest of any wild bird while that nest is in use or being built; or take or destroy an egg of any wild bird. If any person intentionally disturbs any wild bird while it is building a nest or is in, on or near a nest containing eggs or young; or disturbs dependent young of such a bird they shall be guilty of an offence. **It is therefore advised that tree and hedge loss should be kept to a minimum and removal should not be carried out during the bird-breeding season between 1<sup>st</sup> March and 31<sup>st</sup> August.**

Yours sincerely

**Development Management Team**

*Mr Nigel McMahon*  
*Chief Environmental Health Officer*



**BY EMAIL**

Mr Clem Harvey  
Project Manager Transmission Interconnection  
Northern Ireland Electricity Limited  
120 Malone Road  
BELFAST  
BT9 5HT

Room C.3.19 Castle Buildings  
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Email: [nigel.mcmahon@dhsspsni.gov.uk](mailto:nigel.mcmahon@dhsspsni.gov.uk)

Your Ref:  
Our Ref:  
Date: 30 September 2011

Dear Mr Harvey

**STAKEHOLDER ADVISORY GROUP ON EXTREMELY LOW FREQUENCY  
ELECTROMAGNETIC FIELDS (SAGE)**

Thank you for your email received today seeking clarification on the position in Northern Ireland regarding the First Interim Assessment Report of the Stakeholder Advisory Group on extremely low frequency electromagnetic fields (SAGE).

SAGE was established in 2004, sponsored by the Department of Health (London) with funding contributions from the charity 'Children with Leukaemia' and National Grid plc. SAGE brought together stakeholders to identify and explore the implications for a precautionary approach to ELF EMF and make practical recommendations for precautionary measures to reduce public exposures. Stakeholders included representatives from government departments across the UK, industry, independent academics, regulators, public concern groups and associated professional groups.

The UK Government response to the first SAGE report was published by means of a joint Department of Health, Department of Communities and Local Government and Department of Energy and Climate Change Written Ministerial Statement, laid by the then Minister of State for Public Health, Gillian Merron, in the House of Commons on 16 October 2009.

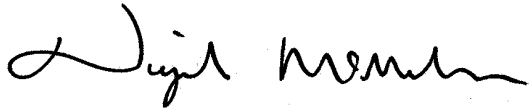
Gillian Merron also wrote to the then DHSSPS Minister, Michael McGimpsey, in a letter dated 16 October, highlighting the publication of the UK Government response and inviting Ministerial colleagues in Northern Ireland to consider those aspects which are devolved matters.

Of the recommendations in the SAGE report accepted in the UK Government response, the main areas relating to the remit of DHSSPS included a commitment to work with the Health Protection Agency to develop public information and to keep under review any new scientific developments as they emerge.

I trust that this letter provides the clarification that you seek.

I am copying this reply to colleagues in DETI (Energy) and DOE (Planning Policy).

Yours sincerely

A handwritten signature in black ink, appearing to read 'Nigel McMahon', with a stylized, cursive script.

***NIGEL McMAHON***

Copy Distribution

Peter Hughes DETI  
Rod Robson DETI  
Angus Kerr DOE



The Environment Committee, at its meeting on 20 May 2010, decided to call for a public inquiry into this planning application. The Committee's consideration of this proposal is ongoing.

#### 4.0 CONSULTATION RESPONSES

The planning application and accompanying Environmental Statement were circulated to consultees on 6 January 2010. A summary of their comments is set out below.

##### **Armagh City and District Council/Dungannon and South Tyrone**

##### **Borough Council - Southern Group Environmental Health Committee**

provided a response on behalf of the Councils. It was their understanding

~~from pre-application discussions with the applicant that no properties were~~

located less than 60m from the proposed line. They have relied on advice contained in the environmental statement that the electric and magnetic fields which would be produced by the proposed development would comply with the ICNIRP and EU guidelines on the exposure of the general public to Electric and Magnetic Fields. They have acknowledged that some public concern may exist in relation to exposure to EMF from the proposed development. They recommend a precautionary approach where possible with due consideration to technical aspects such as optimal phasing, the position of the lines and other relevant matters which could be incorporated into the proposed development for the purpose of minimising EMF exposure. No major issues were raised regarding the protection of the water environment, geology and soils and noise impact.

**Arqiva** (Formerly National Grid Wireless) had no objection.

**Civil Aviation Authority** – No aerodrome related issues were anticipated.

The overhead line and supporting towers would not, for civil aviation purposes, constitute an en-route obstruction;

**DARD Environmental Policy** provided a range of responses. **Countryside Management Branch** were concerned with the lack of mitigation/reinstatement measures in the environmental statement in relation

to soil damage. They expressed concerns about the impact of trafficking on agricultural land. During a 3 year project of this nature there would be periods when soil conditions would be unsuitable for hauling of materials. Soils and possibly drainage systems would at risk unless low pressure vehicles were used. **Forest Service** advised that there was no Forest Service land along the proposed route however there was one private woodland which intersected with the proposed route. **Fisheries Division** had no comment.

**Quality Assurance Branch** requested informatives relating to Potato Wart Disease (PWD) and Potato Cyst Nematode (PCN). **Rivers Agency** has advised that the proposed overhead line crosses numerous designated and undesignated watercourses on route. A submission would be required to Rivers Agency for any proposal to carry out works which would affect a watercourse. **Veterinary Service** has advised that there are no animal health or welfare implications.

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**Department of Health, Social Services and Public Safety** advised that recent policy developments relating to the consideration of public exposure to power frequency electromagnetic fields had been reflected in the EMF section of the Environmental Statement. They also advised that any local population health concerns that may be raised should be considered by referral to the Public Health Agency and the Environmental Health Departments of the relevant district councils.

**Department of Culture, Arts and Leisure Inland Fisheries** are content that the issues raised regarding mitigation measures to protect the interests of inland fisheries have been adequately addressed in the Environmental Statement, provided that all conditions are applied and enforced.

**Department of Enterprise, Trade and Investment Energy Division** had no comment.

**Department of Regional Development Roads Service** had no objections. **Landscape Service** in their response recognise that the proposals would have significant visual impacts on local environments and receptors, however, the route selected has been determined by an environmental impact assessment that addresses the need to avoid direct impacts on designated areas, avoids large settlements, avoids areas with major environmental constraints and attempts to minimise impacts on individual dwellings and on



the wider environment. They also advised that relatively limited amounts of existing hedgerows and trees would be removed along the route and this would not be of substantial visual significance.

**Monaghan County Council** advised that a portion of the proposed line between the border and Tower 89 had the most significant visual impact as it would traverse elevated ground and be visible from scenic views in Co Monaghan more than 5km from the proposed route. They advised that the extent of the Zone of Theoretical Visibility needed to be extended to 7Km, that the submitted photomontages were inadequate, and that the assessment of the impact on landscape character in Co Monaghan and assessment of archaeological impact were inadequate.

**NATS** (National Air Traffic Service) had no safeguarding objections to this proposal.

**Northern Ireland Authority for Utility Regulation (NIAUR)** advised that the

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~~Environmental Statement contained comprehensive detail on the rationale~~ and the need for the interconnector. NIAUR categorically endorsed the reasoning and principles set out by NIE. They added that the current inadequate interconnection to the all island market would cost an estimated 20m – 25m Euros this year, possibly as much as 30m Euros which was likely to rise over time.

**NIEA: Land and Resource Management** advised that there was no detail in the Environmental Statement in relation to risk assessment of potentially contaminated sites within the vicinity of the overhead route.

**NIEA: Natural Heritage** advised that the Environmental Statement contained an ecological assessment of habitats and species along the interconnector route. Bat surveys, as agreed with NIEA, were ongoing, and bat roosts, flightlines and feeding areas, and 2010 results would be issued upon their completion. They were content with the quality of the ecological reports contained within the ES, and considered that a number of mitigation measures were required to minimise the impact on local diversity. They had no objection to the proposed development subject to a number of conditions.

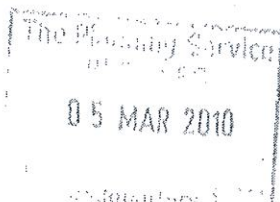
**NIEA: Protecting Historic Buildings** advised that the proposal had the potential of affecting the setting of 6 Listed Buildings. They requested more



Office of the Chief Executive  
Public Health Agency  
18 Ormeau Avenue  
BELFAST  
BT2 8HS

Mr A Moore  
DOE Planning Service  
Millennium House  
17-25 Great Victoria Street  
BELFAST  
BT2 7BN

Tel: 028 9031 1611  
Fax: 028 9031 1711  
Website: [www.publichealth.hscni.net](http://www.publichealth.hscni.net)



3 March 2010

Our Ref:

Your Ref: 0/2009/0792/F

Dear Mr Moore

**PLANNING APPLICATION REGARDING TYRONE – CAVAN 400  
KV INTERCONNECTOR PROJECT**

Thank you for your letter of 6 January 2010 requesting a response from the Public Health Agency in relation to the above project.

You will be aware that the Public Health Agency came into existence on 1 April 2009 and earlier correspondence in relation to this project came through the former Southern Health & Social Services Board (SHSSB). For instance on 21 November 2008 SHSSB noted the omission of a key section from the consultation document specifically regarding Electromagnetic Fields. The SHSSB did not therefore feel able to provide detailed comment regarding the Interconnector at that time. However the current document contains a section on Electromagnetic Fields (chapter 7).

Upon review, the document does appear to provide a balanced review of the presently known information and evidence regarding electric fields. I particularly note the statement in chapter 7, paragraph 1 that "the proposed development will comply with ICNIRP&U guidelines on exposure of the general public" (electromagnetic fields).

I also note that the proposed route will, at its closest point, be at least 75 metres from the nearest dwelling. Assuming the Interconnector is appropriately maintained and serviced, field strength levels at these nearest dwellings should be considerably less than the internationally acknowledged reference levels (ie less than 1%). Based upon the available information and evidence at our disposal this provides considerable reassurance in terms of safeguarding public health.

It is important however, in terms of public reassurance that the developer (Northern Ireland Electricity) complies with all such guidance.

I trust the above information will be of assistance in your appraisal of the Interconnector Scheme.

Yours sincerely



Dr Eddie Rooney  
Chief Executive

Enc

Public Health Agency  
County Hall  
182 Galgorm Road  
Ballymena  
BT42 1QB



Mr A Moore  
The Planning Service  
Millennium House  
17-25 Great Victoria Street  
BELFAST  
BT2 7BN

Tel : 028 25 311150  
Fax : 028 25 311164  
Web Site :

24 June 2010

Our Ref: 67/291/1

Your Ref: 0/2009/0792/F

Dear Mr Moore

**PLANNING APPLICATION REGARDING ELECTRICITY INTER-CONNECTOR PROJECT**

I recently received correspondence in relation to the above project. You will recall that I have already commented on behalf of the Public Health Agency in relation to this project on 3 March 2010 (copy enclosed for your convenience). The further correspondence which was previously addressed to myself at both 18 Ormeau Avenue and Stoney Road Dundonald predominately consists of correspondence objecting to the development and seeking the response of the Public Health Agency to same.

To ensure more expeditious processing in future I would be grateful if all further correspondence could be addressed to myself but directed to the Public Health Agency, County Hall, 182 Galgorm Road, Ballymena BT42 1QB for the attention of Dr Gerry Waldron, Consultant in Health Protection.

In relation to the content of the correspondence I would refer you to my earlier letter of 3 March and advise that these comments remain applicable.

*Improving Your Health and Wellbeing*



Whilst the majority of the objections in the correspondence do not relate specifically to the potential effects of the proposal on the health of the human population in the area, there are two issues raised by a number of the objectors which probably deserve further comment. These are the association with childhood leukaemia and the health impacts on the population as a result of the fear of living in close proximity to overhead power lines.

The former is largely related to the publication of a research paper in the British Medical Journal in 2005 by Draper and colleagues which concluded that "there is an association between childhood leukaemia and proximity of home address at birth to high voltage power lines". However, it is important to stress that the finding of an association between two factors (in this case electromagnetic fields and leukaemia) does not imply that one is a direct cause of the other. Indeed Draper and colleagues go on to state "there is no accepted biological mechanism to explain the epidemiological results; indeed, the relation may be due to chance or confounding". An accompanying editorial in the same issue of the BMJ noted a number of issues in relation to the study including that "it did not include estimates or measures of the magnetic field from either the power lines or other sources" and concluded that the study "provides little evidence that the increasing risk closer to power lines is due to magnetic fields".

Our colleagues in the Health Protection Agency in England have taken the results of this and other studies into account when advising the English Department of Health to the effect that "the evidence to date suggests that in general there are no adverse effects on the health of the population of the UK caused by exposure to extremely low frequency electromagnetic fields below the guideline levels" (letter from Professor Pat Troop to Right Honorable Dawn Primarolo MP, Minister of State for Public Health, 15 October 2007).

In relation to the latter issue regarding stress generated through fear of living in proximity of overhead power lines, this is indeed an important consideration and it is understandable that people in such circumstances can be subjected to a high degree of stress and anxiety particularly in the light of the uncertainty surrounding these developments and the often contradictory reports on the associated levels of risk to health. Although such anxiety can never be fully eliminated, I believe it is important for all bodies engaging in the debate to ensure that an evidence based approach

is always taken and the potential health effects are neither minimised nor exaggerated.

I trust that you find the above remarks helpful and should you require additional comments in relation to this development, please feel free to contact me through the channels described above.

Yours sincerely



Dr E Rooney  
Chief Executive

c.c. Dr L Doherty

Enc

Email: [eddie.rooney@hscni.net](mailto:eddie.rooney@hscni.net)



Department of  
**Agriculture and  
Rural Development**

[www.dardni.gov.uk](http://www.dardni.gov.uk)

**Veterinary Service**

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Application Reference:	O/2009/0792/F
Proposal:	Erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Moy, Dungannon, Co Tyrone to the townlands of Crossreagh and Crossbane, Co Armagh where it would connect with the proposed network in the Republic of Ireland.
Location:	Land to the rear of 152 Trewmount Road in the townland of Turleenan, Moy, Dungannon, Co Tyrone and overhead electrical transmission line from Trewmount Road, Moy to the townlands of Crossreagh and Crossbane, Co Armagh.
Date Consulted:	27/1/2011
Date of Response:	9/3/2011

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I have considered this proposal and on the basis of the information available to me I do not know of any animal health or welfare implications that would effect this proposal provided:

1. The boundary fences with the surrounding fields, which contain livestock, remain stock proof during construction.
2. Livestock do not have access to the materials used in the construction /erection.
3. Materials for the construction /erection are not stored where vermin could have access to them, and there is adequate vermin control on site.
4. The construction and erection of the proposed line and new substation does not result in contamination of surrounding agricultural land and waterways by building materials, their by-products or leach ate from the site.
5. Livestock do not have access to electricity cables or other live components.
6. The proposal does not compromise any of the five essential welfare freedoms of livestock in the vicinity i.e. freedom from hunger, thirst or malnutrition, provision of shelter, freedom from injury or disease, freedom from fear, and freedom to express their normal behaviour.
7. Proper cleaning and disinfection of humans and vehicles/equipment/tools carried out prior to entry and exit from farmlands accessed during construction / erection.

Regards,

Veterinary Service



Mr A Moore  
Planning Service  
Planning Service Headquarters  
Millennium House  
17-25 Great Victoria Street  
Belfast  
BT2 7BN

**Date: 5 April 2011**  
**Telephone: 028 905 69615**  
**Your Ref: O/09/0792**  
**Our Ref: 17178-7& 8**

**Full**  
**RE: Erection of a single circuit 400kv overhead line (33.9km) from a new 400/275KV substation at Trewmount Road Moy to the border where it connects with the proposed network in the Republic of Ireland**  
**Location: Land to the rear of 152 Trewmount Road in the townland of Turleenan Moy Dungannon Co Tyrone and overhead electrical transmission line from Trewmount Road Moy to the townlands of Crossreagh and Crossbane Co Armagh**

Dear Mr Moore

I refer to your consultation letter for the above planning application which was received in this office on 19 January 2011. We acknowledge receipt of an Addendum to the Environmental Statement (ES) (Volumes 1-3). We also acknowledge receipt of an objection statement.

### **Position**

Following further consideration of the information contained within the ES and Addendum, NIEA, Natural Heritage has **no objection** to the proposed development **subject to conditions** which would overcome our concerns.

### **Appraisal of the proposal: Natural Heritage Interest**

NIEA, Natural Heritage considers that a new survey is not required for this proposal as it is unlikely that there are waterbodies which are suitable as breeding ponds for newts within 200 metres of the proposed line route.

Following further consideration of the ES and Addendum we note that the waterbodies adjacent to Towers 32, 43 and 83 are identified as "watercourses" as shown on the legend of Figure 10.1 to 10.10 (Habitat Map) of Volume 4 of the ES. Towers 22 and 23 are located to the east of a pond as shown on the legend of Figure 10.1 to 10.10 (Habitat Map) of Volume 4 of the ES. The attributes of this pond and elements of the surrounding landform are unsuitable for newts – this has been identified in the aerial photography within Volume 4 of the ES, including Figures 1.7, 10.13 and

13.7c.

The results of the badger survey presented in the ES addendum record low incidences of badger evidence and activity within 150 metres of any tower locations. We welcome the intention to undertake a pre-construction badger survey. Should this survey record any new badger setts then a licence will be required for any works to be carried out within 25m of the entrances of any occupied setts.

The bat survey report concludes that the proposal is unlikely to have an adverse impact on the areas local bat population. There will be a loss of some trees which may potentially be used by bats. We consider that once all mature trees to be removed and lopped have been identified, they shall be inspected for the presence of bats by an experienced bat worker or surveyor on the day of felling.

## **Recommendations**

Should approval be granted, the following Conditions should be attached to the Decision Notice.

## **Conditions**

Once all mature trees to be removed and lopped have been identified, any potential roost sites shall be inspected for the presence of bats by an experienced bat worker or surveyor on the day of felling. If evidence of bats is found during inspection, all work shall cease immediately and advice shall be sought from the Northern Ireland Environment Agency Wildlife Inspector.

**Reason:** To minimise the impact of the proposal on the local bat population.

Deflectors shall be inserted on lines that cross the Blackwater River Valley.

**Reason:** To reduce the risk of collision to swans.

Works in the vicinity of watercourses shall avoid contact with the watercourse surface and bed.

**Reason:** To minimise the impact of the proposal on bats.

All works to take place within 25 metres of existing badger sett entrances on site shall be supervised by an NIEA Protected Species Licence holder.

**Reason:** To mitigate potential impacts to badgers on the site.

## **Informatives**

The applicant's attention is drawn to The Conservation (Natural Habitats, etc) Regulations (Northern Ireland) 1995 (as amended), which states that it is an offence to deliberately capture, injure or kill a wild animal of a European protected species included in Schedule II of these Regulations, which includes all species of bat. It is also an offence;

(a) Deliberately to disturb such an animal while it is occupying a structure or place which it uses for shelter or protection;

(b) Deliberately to disturb such an animal in such a way as to be likely to;

(i) Affect the local distribution or abundance of the species to which it belongs;

(ii) Impair its ability to survive, breed or reproduce, or rear or care for its young; or

(iii) Impair its ability to hibernate or migrate;

- (c) Deliberately to obstruct access to a breeding site or resting place of such an animal; or
- (d) To damage or destroy a breeding site or resting place of such an animal.

To avoid any breach of The Conservation (Natural Habitats, etc) Regulations (Northern Ireland) 1995 (as amended), all mature trees and/or buildings to be removed should be checked on the day of felling for the presence of bats, by an experienced bat worker or surveyor.

If there is evidence of bat activity on the site, all work must cease immediately and further advice must be sought from the Wildlife Officer, Northern Ireland Environment Agency, Klondyke Building, Cromac Avenue, Gasworks Business Park, Lower Ormeau Road, Belfast. BT72JA. Tel. 02890 569623

The applicant's attention is drawn to The Conservation (Natural Habitats, etc.) Regulations (Northern Ireland) 1995 (as amended), which states that it is an offence to deliberately capture, injure or kill a wild animal of a European protected species included in Schedule II of these Regulations, which includes otters (*Lutra lutra*). It is also an offence;

- (a) Deliberately to disturb such an animal while it is occupying a structure or place which it uses for shelter or protection;
- (b) Deliberately to disturb such an animal in such a way as to be likely to:
  - (i) affect the local distribution or abundance of the species to which it belongs;
  - (ii) Impair its ability to survive, breed or reproduce, or rear or care for its young; or
  - (iii) Impair its ability to hibernate or migrate;
- (c) Deliberately to obstruct access to a breeding site or resting place of such an animal; or
- (d) To damage or destroy a breeding site or resting place of such an animal.

If there is evidence of otter activity on the site, all work must cease immediately and further advice must be sought from the Wildlife Officer, Northern Ireland Environment Agency, Klondyke Building, Cromac Avenue, Gasworks Business Park, Lower Ormeau Road, Belfast. BT72JA. Tel. 02890 569623

The applicant's attention is drawn to the Wildlife (Northern Ireland) Order 1985 which indicates that it is an offence to intentionally kill, injure or take any wild animal included in Schedule 5 of this Order which includes the badger (*Meles meles*). It is also an offence to disturb these animals or damage or obstruct access to their place of refuge, or damage or destroy anything which conceals or protects their place of refuge.

If there is evidence of badger on the site, all work must cease immediately and further advice must be sought from the Wildlife Officer, Northern Ireland Environment Agency, Klondyke Building, Cromac Avenue, Gasworks Business Park, Lower Ormeau Road, Belfast. BT72JA. Tel. 02890 569623

The applicant's attention is drawn to the Wildlife (Northern Ireland) Order 1985 which indicates that it is an offence to intentionally kill, injure or take any wild animal included in Schedule 5 of this Order which includes the smooth newt (*Lissotriton vulgaris*). It is also an offence to disturb these animals or damage or obstruct access to their place of refuge, or damage or destroy anything which conceals or protects their place of refuge. Tel. 02890 569623



If there is evidence of newts on the site, all work must cease immediately and further advice must be sought from the Wildlife Officer, Northern Ireland Environment Agency, Klondyke Building, Cromac Avenue, Gasworks Business Park, Lower Ormeau Road, Belfast. BT72JA. Tel. 02890 569623

The applicant's attention is drawn to the Wildlife (Northern Ireland) Order 1985 which states that it is an offence to intentionally kill, injure or take any wild bird. It is also an offence to take or damage or destroy the nest of any wild bird while that nest is in use or being built; or take or destroy an egg of any wild bird. If any person intentionally disturbs any wild bird while it is building a nest or is in, on or near a nest containing eggs or young; or disturbs dependent young of such a bird they shall be guilty of an offence. **It is therefore advised that tree and hedge loss should be kept to a minimum and removal should not be carried out during the bird-breeding season between 1<sup>st</sup> March and 31<sup>st</sup> August.**

Yours sincerely

**Development Management Team**

**Water Environment**

Appendix 5.1 – NIEA Correspondence

Mr A Moore  
Planning Service Headquarters  
Millennium House  
17-25 Great Victoria Street  
Belfast  
BT2 7BN

18 May 2010



Your Ref: O/2009/0792/F  
Our Ref: WMU/PC/ 17901-1

Dear Mr A Moore

**Type: Full**

**RE: Erection of a single circuit 400kV overhead line from a new 400/275kV substation at Trewmount Road, Moy, to the townlands of Crossreagh and Crossbane, Co Armagh where it would connect with the proposed network in the RoI.**

**Location: Land to the rear of 152 Trewmount Road in the townland of Turleenan, Moy, Dungannon and overhead electrical transmission line from Trewmount Road, Moy to the townlands of Crossreagh and Crossbane, Co Armagh**

The response from the Water Management Unit (WMU) of Northern Ireland Environment Agency (NIEA) to the above planning application is as follows:-

Chapter 8 of the Environmental Statement for this proposed development details the expected impacts on the aquatic environment and the proposed mitigation required.

The following points should be highlighted to the applicant:

Discharge consent under the terms of the Water (Northern Ireland) Order 1999 will be required for the discharge of all site drainage and sewage effluent from the proposed development. The applicant should be aware that there is no guarantee that discharge consent will be granted, as a number of site specific factors need to be taken into account in assessing the suitability of the proposed means of effluent disposal.

No development should take place on-site until the method of site drainage/sewage effluent disposal has been agreed in writing with NIEA Water Management Unit.

An application form for consent to discharge effluent under the Water (NI) Order 1999 can be obtained by contacting NIEA WMU at the above address, or by visiting our web site at:-

[http://www.ni-environment.gov.uk/water-home/regulation\\_of\\_discharges\\_industrial/industrial\\_and\\_private\\_sewage\\_2.htm](http://www.ni-environment.gov.uk/water-home/regulation_of_discharges_industrial/industrial_and_private_sewage_2.htm)

Consent to discharge under the terms of the Water (Northern Ireland) Order 1999 may also be required for the discharge of site drainage during the construction phase of the proposed development. The applicant will need to contact NIEA Water Management Unit to obtain the necessary application forms. Alternatively, the applicant may wish to consider the implementation of SUDS (Sustainable Urban Drainage System) to deal with this drainage, the design of which must be agreed in advance with the Department.

Dewatering may be required during the construction and excavation phase of this proposal, depending on the geological settings of these works. If water is encountered, an appropriate



abstraction/impoundment licence and consent for discharge may be required from Northern Ireland Environment Agency.

The applicant has identified that dewatering activities may lower the watertable. The applicant should therefore be advised to conduct a water features survey of the proposed site to ensure that no wells or abstractions in the area will be affected by the applicants activities.

WMU feels that the mitigation measures mentioned in Volume 2, Chapter 8 of the Environmental Statement are acceptable. However, it should be noted that all oils and fuels should be held within impermeable containment. The applicant should be made aware of the forthcoming Control Of Pollution (Oil Storage) Regulations (NI) 2010 which are due to come into force on 31 October 2010. A key requirement of the Regulations is that oil storage containers must have a secondary containment system (a bund, which is an outer wall or enclosure designed to contain the contents of an inner tank, or a drip tray) to ensure that any leaking oil is contained and does not enter the aquatic environment. Guidance on how the forthcoming Regulations will apply to your development can be found at: <http://www.netregs.gov.uk> . Also, all concrete washings should be to impermeable containment for disposal offsite via licensed waste contractor.

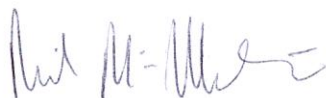
NIEA, WMU expects to agree a Method of Work with the approved contractor and are available for consultation once the contractor has been approved. WMU Pollution Prevention team can be reached on 02892 623 173 to discuss the matter further.

WMU would highlight to the applicant that it is an offence under the Water (Northern Ireland) Order 1999 to discharge or deposit, whether knowingly or otherwise, any poisonous, noxious or polluting matter so that it enters a waterway or water in any underground strata.

The applicant should ensure that measures are in place to prevent pollution of surface or ground water as a result of the activities on site, both during construction and thereafter.

If you have any queries relating to any aspect of this letter, please do not hesitate to contact me on the telephone number listed at the head of this letter.

Yours Sincerely



**Neil McAllister**  
Water Management Unit



## **Geology and Soils**

Appendix 6.1 – Correspondences with NIEA regarding Geology and Soils

**Land and Resource Management (LRM) Unit**

Consultation response for planning application

**Planning application no:** O/20090792/F/ **LRM file Reference:** PLAN 2682

**Proposal:** Single circuit overhead power line and new substation

**Site location:** Trewmount Rd, Moy, Co Tyrone to Crossreagh and Crossbane, Co Armagh

**Date of response:** 28<sup>th</sup> February 2011

**Consultee response:**  Final Substantive Reply  Interim Reply

**Summary of response:**

AECOM as environmental consultants for the applicant have provided additional information in relation to the potential for land contamination and associated risks to health and environmental receptors to be present arising from historic land-uses along the route of the proposed development. Based on their preliminary risk assessment, they conclude that potential pollutant linkages are not present and as such, unacceptable risks are unlikely to be present.

LRM Unit has no objection to this development subject to the conditions and informatives included at the end of this comment.

**Supporting comments:**

The comments below are not exhaustive but serve to capture key points in support of the LRM position outlined above. These comments are made on consideration of the following report(s): Environmental Statement Addendum, prepared by AECOM on behalf of Northern Ireland Electricity. .

1. In the course of pre-application discussions on this application (O/2008/0822/Q) it came to light that the proposed locations of a number of the support towers required for the above proposed development were located close to or on land which may have been affected by contamination by virtue of its historic use. LRM Unit therefore requested further information in relation to these locations.
2. AECOM, as consultants for the applicants, provided a technical note on land contamination issues, in clarification of the issues raised in the Environmental statement. 33 tower locations in total were identified as being potentially close to or on sites which may be affected by contamination as identified by the LRM Unit historic land-use database. Records on the database are provided on a 'without prejudice' basis as the information has not been verified.
3. In the majority of these instances potential sources of contamination were considered by AECOM to be too far from the proposed tower locations (>0.5km) to represent a



risk or the potential for contaminant migration was limited by the relative topography of the two locations, such that no viable pollutant linkage could be established.

4. Two tower locations were identified as having potential linkages and were subject to more detailed consideration: towers 49 and 72.
5. Tower 49 was reported as being 20m from a historic railway line. Whilst a number of potential contaminants are associated with railway land, given the railway was decommissioned in 1967, any volatile and/or soluble compounds are reported as likely to have been lost. Any remaining organic compounds are considered likely to be more recalcitrant and less mobile, therefore not representing a significant risk to environmental receptors. Furthermore given the footprint of the proposed tower development does not directly impinge on the former railway, the risks of contamination being mobilised are considered by AECOM to be small.
6. Tower 72 was reported as being adjacent to an in-filled quarry. Upon walkover of the site, it was not possible for AECOM to verify the presence of a former quarry/mineral workings at this location. No identifiable source of contamination could be found such that no linkage could be established.
7. Any materials brought onto or removed from sites along the route must be done so in full compliance with the relevant waste management legislation.

#### **Proposed condition**

1. **If during the development works, contamination is encountered which has not previously been identified, works should cease and the Department shall be notified immediately. This new contamination shall be fully investigated in accordance with the Model Procedures for the Management of Land Contamination (CLR11). In the event of unacceptable risks being identified, a remediation strategy shall be agreed with the Department in writing, and subsequently implemented and verified to its satisfaction.**

**Reason: Protection of health and environmental receptors to ensure the site is suitable for use.**

#### **Proposed Informatives**

1. **The purpose of conditions 1 is to ensure that any site risk assessment and remediation work is undertaken to a standard that enables safe development and end-use of the site such that it would not be determined as contaminated land under the forthcoming Contaminated Land legislation i.e. Part 3 of the Waste and Contaminated Land Order (NI) 1997. It remains the responsibility of the developer to undertake and demonstrate that the works have been effective in managing all risks.**
2. **The applicant should ensure that the management of all materials onto and off this site are suitably authorized through the Waste Management Regulations (NI) 2006 and/or the Water Order (NI) 1999. This should be demonstrated through a Site Waste Management Plan (see <http://www.netregs.gov.uk>)**

Should you have any queries regarding this response please contact the Land Quality Team

**Issued on behalf of the Land and Resource Management (LRM) Unit within the NIEA**



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Co. Fermanagh  
BT74 4EJ  
Telephone: 028 6634 3125

9 March 2011

Our Ref: P437/10

Your Ref: O/2009/0792/FR

Dear Mr Moore,

Re: Overhead power line, Trewmount Rd, Moy to Crossreagh / Crossbane, Co. Armagh.

I have no additional comments to make regarding this proposal which has been previously referred on many occasions. Our main concerns were hedgerow reinstatement following removal and the impact of soil compaction on agricultural land. The addendums do not directly address these issues.

Yours sincerely,

John V. Courtney

Senior Countryside Management Adviser



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The Planning Service  
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BT2 7BN

*Public Health Agency  
County Hall  
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Ballymena  
BT42 1QB*

*Tel : 028 25 311150  
Fax : 028 25 311164  
Email: gerry.waldron@hscni.net*

15 April 2011

Our Ref: 67/291/1

Your Ref: 0/2009/0792/F

Dear Mr Moore

**PLANNING CONSULTATION NORTHERN ELECTRICITY PLC**

Thank you for requesting further comment in relation to the proposed electricity interconnector regarding the Addendum to the environmental statement.

You will be aware of previous correspondence from the Public Health Agency in respect of this (copy enclosed).

The additional information states that the proposal and environmental impact is essentially identical to the original application but clarification is given on a number of additional matters, only one of which (contaminated land) could be seen to have a bearing on human health.

In relation to the contaminated land issue, based on the information in the Addendum, there would appear to be minimal, if any, potential effects on human health in relation to this issue. Accordingly the views of the Public Health Agency in relation to this development as expressed in our earlier correspondence remains unchanged.

Yours sincerely



Dr Gerry Waldron  
Consultant in Public Health Medicine  
Enc

***Improving Your Health and Wellbeing***





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24 June 2010

Our Ref: 67/291/1

Your Ref: 0/2009/0792/F

---

Dear Mr Moore

**PLANNING APPLICATION REGARDING ELECTRICITY INTER-CONNECTOR PROJECT**

I recently received correspondence in relation to the above project. You will recall that I have already commented on behalf of the Public Health Agency in relation to this project on 3 March 2010 (copy enclosed for your convenience). The further correspondence which was previously addressed to myself at both 18 Ormeau Avenue and Stoney Road Dundonald predominately consists of correspondence objecting to the development and seeking the response of the Public Health Agency to same.

To ensure more expeditious processing in future I would be grateful if all further correspondence could be addressed to myself but directed to the Public Health Agency, County Hall, 182 Galgorm Road, Ballymena BT42 1QB for the attention of Dr Gerry Waldron, Consultant in Health Protection.

In relation to the content of the correspondence I would refer you to my earlier letter of 3 March and advise that these comments remain applicable.

Whilst the majority of the objections in the correspondence do not relate specifically to the potential effects of the proposal on the health of the human population in the area, there are two issues raised by a number of the objectors which probably deserve further comment. These are the association with childhood leukaemia and the health impacts on the population as a result of the fear of living in close proximity to overhead power lines.

The former is largely related to the publication of a research paper in the British Medical Journal in 2005 by Draper and colleagues which concluded that "there is an association between childhood leukaemia and proximity of home address at birth to high voltage power lines". However, it is important to stress that the finding of an association between two factors (in this case electromagnetic fields and leukaemia) does not imply that one is a direct cause of the other. Indeed Draper and colleagues go on to state "there is no accepted biological mechanism to explain the epidemiological results; ~~indeed, the relation may be due to chance or confounding".~~ An accompanying editorial in the same issue of the BMJ noted a number of issues in relation to the study including that "it did not include estimates or measures of the magnetic field from either the power lines or other sources" and concluded that the study "provides little evidence that the increasing risk closer to power lines is due to magnetic fields".

Our colleagues in the Health Protection Agency in England have taken the results of this and other studies into account when advising the English Department of Health to the effect that "the evidence to date suggests that in general there are no adverse effects on the health of the population of the UK caused by exposure to extremely low frequency electromagnetic fields below the guideline levels" (letter from Professor Pat Troop to Right Honorable Dawn Primarolo MP, Minister of State for Public Health, 15 October 2007).

In relation to the latter issue regarding stress generated through fear of living in proximity of overhead power lines, this is indeed an important consideration and it is understandable that people in such circumstances can be subjected to a high degree of stress and anxiety particularly in the light of the uncertainty surrounding these developments and the often contradictory reports on the associated levels of risk to health. Although such anxiety can never be fully eliminated, I believe it is important for all bodies engaging in the debate to ensure that an evidence based approach



is always taken and the potential health effects are neither minimised nor exaggerated.

I trust that you find the above remarks helpful and should you require additional comments in relation to this development, please feel free to contact me through the channels described above.

Yours sincerely

Dr E Rooney  
Chief Executive

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c.c. Dr L Doherty

Enc

Email: [eddie.rooney@hscni.net](mailto:eddie.rooney@hscni.net)



**Smart, Philip**

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**From:** Smyth, Liz [Liz.Smyth@doeni.gov.uk]  
**Sent:** 21 December 2010 13:09  
**To:** Smart, Philip  
**Cc:** Moore, Alan  
**Subject:** RE: NIE Tyrone-Cavan Interconnector: Appendix D1 Tower No.49 and Appendix D2 Tower no. 72. Contaminated Land Assessment (60032220/E9873)

Philip

Further to your email as below and today's messages forwarded by Victoria, I have had a look at the information presented regarding the above proposed interconnector.

The details presented regarding the potential contamination issues along the proposed route appear comprehensive. We will of course comment formally when the addendum is submitted, but were this information to be presented in the addendum submission, I anticipate that we would be able to indicate that LRM Unit had no further objections, subject to a condition regarding any unforeseen contamination which may be encountered.

There are a couple of minor points in the text:

In the Feb 2010 technical note, para 2 the DEFRA 2000 guidance on risk assessment is referred to. I would suggest that CLR 11 The Model procedures for the management of land contamination would be considered the most current guidance on the UK technical framework for assessing land contamination.

There is a minor typo under site 28 petrol station/food storage...I think this should read Fuel!

Within the tower 49 and 72 reports para 1.4 in ref to the Hydrogeology it may be worth referring to the current vulnerability mapping at [http://maps.bgs.ac.uk/gsni\\_geoindex/](http://maps.bgs.ac.uk/gsni_geoindex/) for completeness.

Within the tower 49 report para 1.6 on Ground conditions, it is reported that any contaminants are 'sealed within the track route by vegetation'. It is not clear if this means to infer they are chemically immobile or merely inaccessible. Whilst it is acknowledged that the potential for significant migration of contaminants from the railway line on to the site of the tower itself is low, the rationale is unclear. It would seem likely that any volatile fractions have been already lost, as stated, and that heavier hydrocarbons are likely to be immobile due to their nature and as a result of low infiltration due to heavy vegetation cover.

It should also be noted that all waste materials imported onto the sites or excavated from the site must comply with relevant waste legislation.

I hope these comments are helpful in the interim and please do give me a call if you would like to discuss, although just to let you know, I will out of the office from today pm until December 31st!

Happy Christmas!

Regards

Liz  
tel: 028 90569351

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**From:** Smart, Philip [<mailto:philip.smart@aecom.com>]  
**Sent:** 13 December 2010 11:37  
**To:** Smyth, Liz  
**Cc:** Doyle, Carey  
**Subject:** NIE Tyrone-Cavan Interconnector: Appendix D1 Tower No.49 Contaminated Land Assessment (60032220/E9873)

Liz

Further to our telephone conversations of last week, please find attached a copy of our draft contaminated land desk study report of Tower No.49 on the proposed Tyrone-Cavan Interconnector. As discussed, we would be grateful for any comments that you may have before we formally submit the document as part of an Addendum to the Environmental Statement.

As we also discussed, all Addenda to the ES MUST be submitted to Planning Service before 13 January 2011. Accordingly, if you could respond with your comments as soon as practical, this would be appreciated in order that we can finalise the document.

If you have any queries on either this report or on the report for Tower No. 72, please do not hesitate to contact me.

Regards

**Philip Smart** BSc MSc C Geol FGS MCIWEM  
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<<Appendix D1 V1 Issued FINAL 13122010.pdf>> <<Fig D1 1.pdf>> <<Fig D1 2.pdf>> <<Appendix D1 Annex 1.pdf>> <<Appendix D1 Annex 3.pdf>> <<Appendix D1 Annex 2 (2).pdf>>

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## Maguire, Mary K

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**Subject:** FW: O/2009/0792/F Electricity interconnector  
**Attachments:** Technical Note Contaminated Land Interconnector.pdf; Figure 9.1 Contaminated Land Sites & Mine Shafts.pdf

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**From:** Doyle, Carey  
**Sent:** 30 March 2010 13:28  
**To:** Wilson, Fiona; Cluskey, Tony  
**Cc:** Harvey Clem; Sutton, Brian; Moore, Alan  
**Subject:** FW: O/2009/0792/F Electricity interconnector

Hello Fiona and Tony,

Please find attached a technical note clarifying the assessment undertaken on potential contaminated land sites which is contained in the Tyrone Cavan Interconnector ES. This is provided in response to your queries below.

If you have any further questions don't hesitate to get in touch with myself or with Brian Sutton.

Kind Regards,  
Carey

**Carey Doyle** BA MA AIEMA  
Principal Environmental Scientist, Environment  
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**From:** Harvey Clem [<mailto:Clem.Harvey@nie.co.uk>]  
**Sent:** 11 February 2010 17:25  
**To:** Wilson, Fiona  
**Cc:** Moore, Alan; Cluskey, Tony; Doyle, Carey  
**Subject:** RE: O/2009/0792/F Electricity interconnector

Thanks Fiona  
I have copied Carey Doyle AECOM into this email and she will talk to you directly as requested.  
Thank you for your cooperation.  
Regard  
Clem

*Clem Harvey*  
*Project Manager Transmission Interconnection*  
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**Northern Ireland Electricity plc**

Registered in Northern Ireland

Registered No: NI26041

Registered Office: 120 Malone Road, Belfast, BT9 5HT

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**From:** Wilson, Fiona [mailto:Fiona.Wilson@doeni.gov.uk]  
**Sent:** 11 February 2010 17:11  
**To:** Harvey Clem  
**Cc:** Moore, Alan; Cluskey, Tony  
**Subject:** FW: O/2009/0792/F Electricity interconnector

Hi Clem,

Re: O/2009/0792/F Electricity interconnector

Just to follow up our phone call earlier, as it was a bit difficult to hear!

The Land and Resource Management Unit has received a full copy of this consultation, including maps and environmental statement. The section most relevant to the Land Quality team is Chapter 9 Geology and Soils (volume 2, Page 160).

It is apparent from the text in 9.3.4 that some sort of desk top study and preliminary risk assessment have been carried out, but no detail is included. LRM would require some evidence of what has been considered in the risk assessment.

It is also mentioned that Towers 49 and 72 are close to potentially contaminated sites, but it is not apparent from the text, or Figure 9.1, which sites these are (in terms of specific reference numbers). There is also no discussion of the topographical or hydro-geological setting of these sites, which should be considered in any risk assessment.

To help move things along, Alan Moore would be content if you could provide this information directly to LRM, so that an addendum to the ES would not be required.

If it helps, I would be happy to speak to Aecom directly

Best regards

Fiona

Dr Fiona Wilson  
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---

**From:** Wilson, Fiona  
**Sent:** 08 January 2010 12:40  
**To:** Moore, Alan  
**Subject:** O/2009/0792/F Electricity interconnector

Hi Alan

Happy New Year

Re: O/2009/0792/F Electricity interconnector

Thank-you for the consultation you have recently sent LRM.

I note there is a short section in Chapter 9 (Geology and soils) of the environmental statement about potentially contaminated land sites within the vicinity of the overhead route. However, there is no detail as to how the consultants have risk assessed the sites, or the environmental setting of the sites (particularly those in the vicinity of towers). Is this detail contained in a separate report? And if so, is it possible for you to forward me a copy?

Best regards

Fiona

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\*\*\*\*\*  
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Project:	<b>Tyrone - Cavan Interconnector</b>	Job No:	<b>60032220</b>
Subject:	<b>Potential Contaminated Land Impacts</b>		
Prepared by:	<b>Dr. Brian Sutton</b>	Date:	<b>22 Feb 2010</b>
Checked by:	<b>Phillip Smart</b>	Date:	<b>09 March 2010</b>
Approved by:	<b>Carey Doyle</b>	Date:	<b>30 March 2010</b>

## 1. Introduction

- a. This technical note is provided as clarification on the potential contaminated land impacts arising from the Tyrone – Cavan Interconnector. This note reproduces information contained in the Environmental Statement (ES) for the proposed development and provides clarification on the assessment contained in the ES.
- b. Contaminated land is defined as land where substances are present in sufficient quantities or concentrations to cause or likely to be causing harm, directly or indirectly, to humans or the environment.
- c. An assessment to determine the potential presence and extent of contaminated land includes the following elements:
  - Identification of potential sources of contamination;
  - Identification of potential receptors that might be adversely affected by the contamination; and
  - Identification of potential pathways between the source(s) and the receptor(s).
- d. If all three (source, receptor, and pathway) co-exist, then a pollutant linkage has been identified and there is a potential for the contamination to represent a risk and for the site to be considered contaminated.
- e. A number of sites have been identified from the NIEA Contaminated Land database as having a potential for land contamination in the immediate area of the proposed Tyrone Cavan Interconnector. Risk categories have not been assigned to the majority of these sites. It should be noted that contaminated land sites provided by NIEA are derived from a pilot study, and are therefore not likely to be completely comprehensive, and have not been fully validated.
- f. Sites are listed in Table 9.3 below (reproduced from the ES) and shown in Figure 9.1, which was issued with the ES. Figure 9.1 is appended here for reference.

Table 9.3 Potential contaminated land sites within 1km of the line route

SITE NO (FIG 9.1)	NIEA SITE NUMBER	GRID REFERENCE	ADDRESS (TOWNLAND)	DESCRIPTION
1	DN179/010	H833607	Culnagrew TD	Railway land
2	DN100/011	H848604	Kinego TD	Railway land
3	DN179/011	H837603	Dungorman TD	Reclaimed land (quarry)
4	DN180/020	H842596	Dungorman TD	Textiles
5	DN179/013	H831578	Drumgold TD	Reclaimed land (gravel pit)

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SITE NO (FIG 9.1)	NIEA SITE NUMBER	GRID REFERENCE	ADDRESS (TOWNLAND)	DESCRIPTION
6	DN180/016	H846575	Lisbroan TD	Reclaimed land (gravel pit)
7	DN179/008	H839569	Drumgrannon TD	Mineral workings (gravel pit)
8	DN179/002	H832561	Corestown TD	Mineral workings (quarry)
9	DN198/009	H836540	Derryoghill TD	Reclaimed land (gravel pit)
10	DN198/015	H828538	Drumlee TD	Textiles (flax mill)
11	DN198/016	H827538	Tobermesson Glebe TD	Reclaimed land (quarry)
12	DN198/011	H830534	Drumlee TD	Reclaimed land (gravel pit)
13	DN198/003	H830524	Tullylearn TD	Mineral workings
14	DN198/008	H835517	Tullydowey TD	Chemical works
15	AH190/011	H824512	Drumduff TD	Textiles
16	AH217/007	H822461	Lisdown TD	Railway land
17	AH234/021	H803394	Lisginn TD	Reclaimed land (quarry)
18	AH234/003	H812393	Lisginn TD	Mineral workings
19	AH234/022	H792373	Drummond TD	Mineral workings
20	AH234/017	H796017	Drummond TD	Textiles
21	AH234/016	H798366	Drummond TD	Textiles
22	AH234/006	H808361	Drummond TD	Textiles
23	AH234/007	H793357	Sheetrim TD	Reclaimed land (quarry)
24	AH249/016	H784341	Tullyhirm TD	Reclaimed land (quarry)
25	AH249/005	H799337	Cargallsgorran TD	Mineral workings
26	AH249/015	H807332	Carryhugh TD	Metal mining & smelting
27	AH249/017	H808328	Crossnamoyle TD	Food preparation & processing
28	AH249/002	H803319	Derrynoose Road	Petrol station/Food storage
29	AH249/014	H796315	Drummeland TD	Metal mining & smelting
30	AH249/003	H787323	Listarkelt Road	Petrol station/fuel storage
31	AH249/001	H798296	Crossbane TD	Mineral workings
32	AH249/012	H794291	Crossbane TD	Reclaimed land (quarry)
33	AH263/007	H804267	Crossbane TD	Reclaimed land (quarry)

**2. General Assessment**

The assessment of the risk that a contaminated land site poses to the environment follows the staged process outlined in *Guidelines for Environmental Risk Assessment and Management* (Defra 2000). Key stages in this process are hazard identification, identification of potential consequences arising from a hazard, estimating the magnitude of those consequences at both spatial and temporal scales, estimating the probability of those consequences and evaluating the significance of the consequences. The Guidelines define hazard as a property or situation that in particular circumstances could lead to harm.

None of the towers or the substation physically disturbs an identified contaminated land site. (Details of individual tower locations can be provided to NIEA if required). Construction of the towers will not

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introduce any contaminants into the wider environment, since the use of concrete will be limited to the tower bases.

Details of construction methods are contained in Chapter 5 of the Tyrone - Cavan Interconnector Environmental Statement.

The potential impacts of the towers and substation on local watercourses and ground water are outlined in the Water Quality Assessment (Chapter 8) contained in the Environmental Statement. Residual impacts after mitigation are considered to be minor adverse in the worst case.

In the present case, therefore, identification of the consequences arising from the hazards identified in Table 9.3 requires identification of the pathways by which contaminants from the listed sites may be affected by tower or substation construction or operation, with a consequent potential for release into the wider environment. Without a pollutant linkage, there is not a risk, even where a contaminant is present. The restricted volume and depth of excavation required for the construction of each tower base, together with the absence of direct physical impact on known contaminated land sites, suggests that pathways for contaminants to reach the tower sites will be determined by the potential for downslope movement of the contaminants in groundwater and/or surface water. As detailed above, the general presence of a clay-rich cover of superficial deposits provides a barrier to the movement of soluble contaminants to the underlying groundwater, thereby minimising the potential impacts on groundwater.

The nearest identified site to the proposed substation site is a disused gravel pit (site 6, Table 9.3), separated from the substation site by a minor watershed, and at a distance of 1.2km. The potential for contaminated land issues to arise with regard to the substation site is therefore not further considered.

The potential for pathways to exist between individual contaminated land sites and tower locations was considered. The distance between sites and tower locations was computed (Table 9.4 in the ES, reproduced below). Site maps were examined in order to determine whether there were any geomorphological features, for example watercourses, that had the potential to channel mobile contaminants between contaminated land sites and tower locations. In the absence of these features, those sites greater than 0.5km from a tower site were discounted as potential sources of contaminants that would be affected by tower construction, since it is likely that any mobile contaminants would be so diffuse over this distance that any significant adverse impacts on the environment would be highly unlikely. Those sites which are downslope of projected tower locations were discounted as potential sources of contaminants that would be likely to be affected by tower construction, since any mobile contaminants would be transported away from the excavation sites. Sites that are separated from tower locations by watercourses were also discounted, since the most efficient course for contaminant discharge would be along the watercourse. Sites separated from tower locations by local watersheds, or are on slopes that direct surface water and groundwater flow away from tower locations, are discounted since the flow of potential contaminants would be directed away from the tower location.

In addition to specific sites, it should be noted that there is a general potential for pollution from entrained agricultural chemicals on present and past agricultural land, and from buried material which may occur almost anywhere.

The northern section of the line route is underlain by the Carboniferous Limestones (the Armagh and Tyrone Groups) and the Sherwood Sandstone (the Derrycreevy Sandstone), both of which are regarded as important aquifers. The southern third of the line route is underlain by Ordovician and Silurian rocks, which have a low permeability and limited significance for groundwater resources.

It is likely that all the strata along the route provide baseflow discharge to the adjacent surface watercourses and hence the groundwater quality is a significant resource which needs to be protected.

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Along much of the line route, the bedrock is covered by a variable thickness of superficial drift deposits, which are dominated by low permeability boulder clay. The surface boulder clay forms a barrier to vertical groundwater movement and hence protects the water quality in the underlying strata from contamination resulting from surface activities. Accordingly, it is considered that the groundwater in the strata beneath the route is at negligible risk from the presence of any contaminated ground along the route.

**Table 9.4: Assessment criteria for impacts of tower locations on contaminated land sites**

SITE NO (FIG 9.1)	NEAREST TOWER NO.	DISTANCE (KM) FROM TOWER	ASSESSMENT
1	8	2.191	Distant from tower (>0.5km)
2	4	2.423	Distant from tower (>0.5km)
3	8	2.096	Distant from tower (>0.5km)
4	4	1.665	Distant from tower (>0.5km)
5	10	0.244	See text
6	6	0.359	See text
7	7	0.957	Distant from tower (>0.5km)
8	16	0.597	Distant from tower (>0.5km)
9	23	0.507	Distant from tower (>0.5km)
10	24	0.226	Downslope of tower
11	24	0.33	Downslope of tower
12	25	0.178	Downslope of tower
13	29	0.148	Downslope of tower
14	31	0.385	Flow directed away from tower (see text)
15	30	0.737	Distant from tower (>0.5km)
16	49	0.061	Downslope of tower (see text)
17	72	0.066	Downslope of tower (see text)
18	68	1.29	Distant from tower (>0.5km)
19	78	0.673	Distant from tower (>0.5km)
20	96	0.658	Distant from tower (>0.5km)
21	80	0.149	Distant from tower (>0.5km)
22	81	0.866	Distant from tower (>0.5km)
23	83	0.511	Distant from tower (>0.5km)
24	90	0.657	Distant from tower (>0.5km)
25	92	0.887	Distant from tower (>0.5km)
26	92	1.681	Distant from tower (>0.5km)
27	93	1.798	Distant from tower (>0.5km)
28	96	1.345	Distant from tower (>0.5km) (see text)
29	97	0.66	Distant from tower (>0.5km) (see text)
30	95	0.304	Downslope of tower (see text)

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SITE NO (FIG 9.1)	NEAREST TOWER NO.	DISTANCE (KM) FROM TOWER	ASSESSMENT
31	102	1.08	Distant from tower (>0.5km)
32	102	0.897	Distant from tower (>0.5km)
33	102	3.422	Distant from tower (>0.5km)

### 3. Specific Site Assessment

The majority of sites are deemed to be of low risk, because of the distance from towers and/or local hydrological characteristics as determined above. However, the potential risk from a number of sites is addressed in greater detail below because of their proximity to towers, marginal differences in altitude between potentially contaminated land and the nearest tower location, and/or the nature of the contaminated land site.

*Site 5, is approximately 250m north and 10m upslope of Tower 10:* This site was described as a “gravel pit” in 1834, but by 1856 the site had reverted to agriculture, a land use which continues to the present day. The former landuse is not now detectable. There are unlikely to be few contaminants relating to its earlier function that have persisted in a mobile state to the present day. The site is considered to be of low risk, since, together with an absence of physical disturbance of the site, the passage of time is likely to have negated any potential effects relating to a relatively benign former land use.

*Site 6, 360m south of Tower 6:* This site is described by the Land and Resource Management Unit (LRMU) of NIEA as “reclaimed land (gravel pit)”. The site is separated from Tower 6 by the slopes of a minor hill, which effectively causes any discharge from the site to drain initially away from the proposed tower excavation site. The tower site is at a marginally lower altitude than the former gravel pit, and the effective hydrological pathway to the tower site is 570m. The former quarry site is currently used as agricultural grassland, and the site is considered to be of low risk with regard to tower construction in the absence of physical disturbance of the former quarry floor.

*Site 14, 385m east of Tower 31:* The site described as “chemical works” in the LRMU database is in the Tullydowey House demesne, the site of a bleaching green and sizeable flax mill that operated until 1984. The site is at a higher altitude than the Tower 31 location, but drainage from the site is directed downslope away from the proposed overhead line route, towards the River Blackwater, approximately to the south east. There is therefore no pathway between the potentially contaminated land site and the proposed tower location.

*Site 16, approximately 60m north from Tower 49:* The contaminated land site is described as “railway land” in the LRMU database, and is the route of an abandoned and dismantled railway line in a cutting to the north of the proposed tower location. Contaminants associated with railway lines include hydrocarbons from leakages and spillages, creosote from sleeper treatment, ash and sulphates from track ballast and herbicides. Armagh rail station closed in 1957, and the track in the vicinity of the proposed overhead line has become vegetated with scrub. Many of the contaminants associated with railway land are volatile and are likely to have evaporated, and heavier fractions are sealed within the track route by vegetation. The tower site is above the railway cutting, and in the absence of physical disturbance of the former track, there is no pathway for residual contaminants to migrate to the tower site.

*Site 17, approximately 65m west of Tower 72:* Site 17 is described as “reclaimed land (quarry)” in the LRMU database. It is not known at what date the quarry ceased to operate, but the site is now under agricultural grassland, and is scarcely discernible on the ground. The former quarry site may be detectable from aerial photographs, which show a possible feature approximately 120m to the east and downslope of the proposed tower site. The proposed tower location is in a well-established hedgerow, and the tower base is likely to be a significant height above the former quarry floor, the most likely site of deposition of any contaminants associated with the quarrying process. The general land surface falls from a hill above the tower location, and the discharge pathway from the former quarry site is directed northwards, away from the tower and towards northward flowing minor tributaries of the River Blackwater. The site is therefore considered to be of low risk with regard to tower construction in the absence of physical disturbance of the former quarry floor.

*Site 28, 1,345m east of Tower 96:* Although the contaminated land site is a considerable distance from the proposed tower location, its description as “petrol station/food storage” in the LRMU database, highlights greater potential risks than for most of the sites on the database. However, the site is separated from the proposed tower location by two minor valleys and an associated local watershed, and there is no pathway linkage between the site and the tower location.

*Site 29, 660m east of Tower 97:* Site 29, described as “metal mining & smelting” in the LRMU database, is assessed individually because of the potential for high levels of contamination that can be associated with these activities. The site, as well as being distant from the proposed tower site, is separated from it by a minor valley and is at a lower elevation than the tower. Accordingly there is no pathway linking the potentially contaminated site and the tower.

*Site 30, 300m west of Tower 95:* Site 30 is described as “petrol station/fuel storage” in the LRMU database. The proposed tower is located on a hillside around 20m above the LRMU site, and flow from the site is directed westwards towards a local basin occupied by Fergort and Listarkelt Loughs. There is therefore no pathway linkage between the potentially contaminated site and the proposed tower location.

## 4. Conclusion

It can be demonstrated that the proposed towers are unlikely to have an adverse impact on known potentially contaminated sites, and that there will be no release of contaminants from these sites to the wider environment as a result of the scheme. None of the known sites will be physically disturbed as a result of the scheme, and so direct exposure of the wider environment to any contaminants present at the sites will be avoided. It is shown that for many known sites, the characteristics of the sites and their distances from the nearest structure associated with the proposed development indicate that there is no risk of environmental contamination arising from these sites.

Eight sites that are relatively close to proposed tower construction sites (in terms of either distance or elevation), or pose potentially greater risks because of the characteristics of the site are considered in greater detail in this technical note. It is demonstrated that there is no pollutant pathway available between these sites and the tower locations that will permit contaminants to enter the wider environment as a result of the scheme.

The proposed substation is remote from known potential contaminated land sites, and neither construction nor operation of the substation will expose the contaminants present in known sites to the wider environment.

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## 5. References

*Guidelines for Environmental Risk Assessment and Management* (Defra 2000). Available at <http://www.defra.gov.uk/environment/quality/risk/eramguide/>

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## Appendix 9.2 – NIEA Response



Planning Ref: O / 2009 / 0792 / F  
NIEA: HMU Ref: SM 11 / 2 Arm 7,11,12,15,16,19. Tyr 61,62  
Site: Land to the rear of 152 Trewmount Road in the townland of Turleenan  
Moy, Dungannon. Overhead electrical transmission line from Trewmount  
Road Dungannon to border of Republic of Ireland.  
Date: 14/05/2010

Please refer to our comments in respect of this application dated 26<sup>th</sup> January 2010, our position has not changed.

NIEA: Historic Monuments Unit has received and reviewed the objection letter from Mr. Ronan Woods in respect of the proposed development. We take note of his comments and points made, including the reference to Neolithic remains along the route. It is assumed this statement is referring to the potential for previously unrecorded below ground archaeological remains, which may be impacted upon in the course of development works. This issue has been addressed by the recommendation for archaeological mitigation, as detailed below.

NIEA: HMU have requested that should this application be approved, it should be conditional on the agreement and implementation of a developer-funded programme of archaeological works, to identify and record any archaeological remains in advance of new construction, or provide for their preservation *in situ*, as per Policy BH 4 of PPS 6.

If further discussion is required please contact me on 028 90543107.

  
Gail Howell  
Casework Officer



**Consolidated ES Responses 2012/2013**



Job No:	AECOM - Belfast
Reviewed by:	FL
Date:	19 DEC 2012
Actioned by:	JM
Date:	19.12.2012
Copy to:	
Filing Location:	INTERCONNECTOR FILE LOCATION.

31EY02A

18 December 2012

Mr F Lagan  
Principal Environmental Consultant  
AECOM  
9<sup>th</sup> Floor  
The Clarence West Building  
2 Clarence Street West  
BELFAST BT2 7GP

Dear Mr Lagan

**RE: PROPOSED TYRONE TO CAVAN INTERCONNECTOR – 400 Kv OVERHEAD LINE AND SUBSTATION**

The Councils refer to your letter of 9<sup>th</sup> November 2012.

It is the Councils' view that if this project is still required then it should be placed underground. The Councils in advocating this view are confident that it is accurately reflecting the views of residents, landowners, community groups and schools who are situated on the proposed route of the line as these views have been forcefully and frequently articulated to elected members.

The Councils also note the comments of the Planning Appeals Commission on this application in its Annual Report and their general comments on delays in progressing applications which also apply to this application.

*“The Public Inquiry commenced in March 2012 but was later adjourned due to concerns about the adequacy of the information provided by the applicant in relation to the statutory requirements. The Commission is awaiting further information before reconvening the Inquiry.”...[these have involved significant input of Commission resources including the opening and subsequent adjournment of Public Inquiries. Clearly such delays not only damage public confidence in the planning process but also have the potential for far reaching economic consequences.]*

The Councils share these views and note that the failure of the applicant in this case to provide adequate information in relation to the statutory planning requirements has reinforced the view held by local residents and landowners that the range of concerns which they have consistently raised with NIE have not been adequately answered or dealt with. The handling and communications regarding consultation on this project to date has created a very significant gulf in the credibility of NIE with local residents and the wider community in respect of the accuracy any information that they proffer on it. The Councils understand that views in the local community with regard to this project can be summarised under a number of broad headings:



- The need for the project and on the route currently chosen. If it is needed, then place it underground.
- The adequacy of information on the environmental impact of the project and the specific measures proposed to mitigate these impacts in respect of **all** works associated with the project;
- The adequacy of information in respect of how the application complies with statutory planning requirements;
- The lack of useful information on the total costs and benefits of this project, including non monetary costs as they impact on residents, local businesses land owners and others impacted on by the proposal;

The Councils understand that the PAC requires the application to be readvertised . When this is done it will then be dealt with through the Councils' normal consultation procedures. The Councils in considering the application will amongst other actions reference the following:

- The Planning Application will be a planning application that falls within the statutory framework of Council Directive 85/337/EEC ("the Habitats Directive") (as amended), the Planning (Environmental Impact Assessment) Regulations (Northern Ireland) 1999 (as amended) ("the 1999 Regulations") and the Planning (Northern Ireland) Order 1991 (as amended) ("the 1991 Order").
- The Applicant should therefore ensure that it complies fully with all of the requirements of these statutes.
- A Strategic Environmental Assessment ("SEA") must also be carried out into the plan/development, in accordance with the United Nations Economic Commission for Europe Protocol on Strategic Environmental Assessment as implemented by Directive 2001/42/EC and the Environmental Assessment of Plans and Programmes (Northern Ireland) Regulations 2004.
- The Environmental Impact Assessment must assess the entire scheme or project. If the application forms part of a wider scheme or project it should assess the impacts of the entire scheme.
- In order to allow the Councils to fully consider the implications of any proposal the applicant must submit an accurate planning application which complies with the requirements of the Planning (Northern Ireland) Order 1991.
- It may be appropriate to show other features on these drawings.

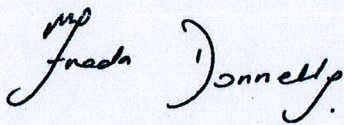


The Councils (and members of the public) must have sufficient information to understand as a minimum:

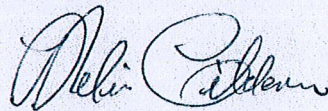
- The precise location and route of the line in relation to property.
- The precise site of each tower and relationship with adjoining property.
- The type or design of each tower at each location
- The elevation and height of each tower at each tower location.
- The type of foundations which will be used for each tower.
- The means of access to each tower during the construction phase.
- The access arrangements (and works) required during the operational phase.
- The existing trees and hedgerows within the site and how they may be affected by the proposals.
- Whether there are any protected species within or near to each pylon site.
- Whether there are any public rights of way within or adjoining the site.
- The environmental, health and other impacts of the entire project assessed as a whole.

The development will also require a habitats assessment under the Habitats Directive. I trust that this is helpful.

Yours sincerely



**Councillor Mrs Freda Donnelly**  
Armagh City and District Council



**Councillor Phelim Gildernew**  
Mayor of Dungannon & South Tyrone Borough Council



## Martin, Joseph

---

**Subject:** RE: T/C Interconnector CAA Consultation Letter (Email 2 of 2)

---

**From:** Smailes Baggy  
**Sent:** 15 February 2013 08:35  
**To:** 'Fay.Lagan@aecom.com'  
**Subject:** FW: T/C Interconnector CAA Consultation Letter (Email 2 of 2)

Dear Mr Lagan,

Thank you for your recent enquiry concerning the proposed Tyrone to Cavan overhead line (also previously referred to as the North –South Interconnector). You sought Civil Aviation Authority (CAA) comment, effectively an update to the comment that has been previously provided over a number of years. I trust the following is useful.

Notwithstanding that it is now understood that the overhead line is intended to consist of 102 supporting tower with a maximum height of 41m (above ground level) and two taller towers (46m and 54m) near the Moy substation, the CAA's related position fundamentally remains as previously documented. Given the maximum height of any part of the overhead line (towers and wires) would be 54m, I can confirm that the overhead line and supporting structures would not constitute aviation en-route obstructions for civil aviation purposes; I have therefore few associated observations other than to highlight that the need for planning deliberations to take into account any relevant aerodrome specific safeguarding issues.

However I am aware that in respect of military aviation operations the Ministry of Defence (MoD) has expressed generic concerns associated with overhead power lines. It is consequently possible that the MoD would make recommendation related to the lighting of the towers and marking of the wires. All parties should be aware that in general the CAA would wish to support any MoD (or indeed any aviation stakeholder) recommendation concerning enhancement to wire conspicuity. Clearly, it is essential that the MoD is given the opportunity to comment upon the subject proposal.

As an aside, it should be noted that, the CAA promulgates known power lines which have a height of 80ft or more, drawing information from a Defence Geographic Agency (DGA) database. DGA will need to be provided information relating to the need overhead line such that updates to aviation documentation can be initiated; a good point of contact is Mr Tony Ruff (0208 818 2702, [tony.ruff943@mod.uk](mailto:tony.ruff943@mod.uk)).

I believe that any associated Environmental Statement should acknowledge, consider and (where applicable) address the issues highlighted above. I hope these few comments match your requirements. Should you require any further civil aviation regulatory input, do not hesitate to get in touch.

Mark Smailes  
0207 453 6545

Airspace Regulator  
Directorate of Airspace Policy  
Civil Aviation Authority  
CAA House  
45-59 Kingsway  
London WC2B 6TE



Armagh Office  
44 Seagoe Industrial Estate  
CRAIGAVON  
Co. Armagh  
BT63 5QE

Telephone: 028 3839 9111  
Fax: 028 3839 9113  
Web: [www.riversagencyni.gov.uk](http://www.riversagencyni.gov.uk)

Fay Lagan  
AECOM  
9<sup>th</sup> Floor  
The Clarence West Building  
2 Clarence Street West  
Belfast  
BT2 7GP

Your Ref: 60032220/CES

Our Ref: DA2-07-30522

21<sup>st</sup> November 2012

Dear Fay

**RE: Proposed Tyrone to Cavan Interconnector – 400KV Overhead Line and Substation.**

Thank you for your letter received in the Armagh Sub Office 21<sup>st</sup> November 2012.

We are considering your request and will reply to you as soon as possible.

Regards

*Pauline Lynch*  
**Pauline Lynch**  
**Admin Section**  
**Armagh Sub Office**

Job No:	
AECOM - Belfast	
Reviewed by:	<i>PL</i>
Date:	<i>22 NOV 2012</i>
Actioned by:	<i>JM</i>
Date:	<i>22.11.12</i>
Copy to:	
Filing location:	<i>N/S Interconnector File</i>



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Job No:	AECOM - Belfast
Reviewed by:	<input checked="" type="checkbox"/>
Date:	22 NOV 2012
Actioned by:	JM
Date:	22.11.12
Copy to:	
File:	N/S Interconnector File

Your Ref: 60032220

Our Ref: DA2-07-30522

21<sup>st</sup> November 2012

Dear Fay

**RE: Proposed Tyrone to Cavan Interconnector – 400KV Overhead Line and Substation.**

Thank you for your letter received in the Armagh Sub Office 21<sup>st</sup> November 2012.

We are considering your request and will reply to you as soon as possible.

Regards

*Pauline Lynch*

**Pauline Lynch  
Admin Section  
Armagh Sub Office**



An Agency within the Department of  
**Agriculture and  
Rural Development**  
[www.dardni.gov.uk](http://www.dardni.gov.uk)



INVESTOR IN PEOPLE



## Martin, Joseph

---

**From:** Lagan, Fay  
**Sent:** 10 December 2012 13:27  
**To:** Martin, Joseph  
**Subject:** FW: DETI - Energy Division Response

---

**From:** Hyland, Linda [<mailto:Linda.Hyland@detini.gov.uk>]  
**Sent:** 05 December 2012 10:20  
**To:** TC Interconnector  
**Cc:** Haughan, Anthony  
**Subject:** DETI - Energy Division Response

Dear Ms Lagan,

Your Ref: 60032220

The Department has no additional comments or data, regarding the proposed development.

Regards

Linda

### Linda Hyland

Energy Markets - External  
Department of Enterprise, Trade & Investment  
Netherleigh  
Massey Avenue  
Belfast, BT4 2JP  
Tel: 028 9052 9377 (ext: 29377)  
Textphone: 028 9052 9304  
Web: [www.detini.gov.uk](http://www.detini.gov.uk)

*The new website for the European Sustainable Competitiveness Programme for NI is now available - visit [www.eucompni.gov.uk](http://www.eucompni.gov.uk)*



[www.ni2012.com](http://www.ni2012.com)

**Please consider the environment - do you really need to print this e-mail?**

Fay Lagan  
AECOM  
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The Clarence West Building  
2 Clarence Street West  
Belfast  
BT2 7GP

Air and Environmental Quality  
Environmental Policy Division  
6<sup>th</sup> Floor  
Goodwood House  
44-58 May Street  
Town Parks  
BELFAST  
BT1 4NN

Telephone: 028 9025 4730

Email: [barry.mcauley@doeni.gov.uk](mailto:barry.mcauley@doeni.gov.uk)

Your reference: 60032220  
Our reference: TP/017/6

3<sup>rd</sup> December 2012

Dear Fay

**PROPOSED TYRONE TO CAVAN INTERCONNECTOR – 400 KV  
OVERHEAD LINE AND SUBSTATION**

Thank you for your letter of 9<sup>th</sup> November in which you outline your plans to consolidate and update your Environmental Statement on the above proposed project, and in which you ask for any information which may be of relevance.

I would advise that you should contact the relevant district council(s) for comments in relation to potential impacts on noise or air quality of the proposed interconnector and substation.

I would offer the following advice in relation to noise:

Noise sensitive receptors and the current ambient noise levels must be identified from a noise survey using  $L_{max}$ ,  $L_{A10}$ ,  $L_{Aeq}$  and  $L_{A90}$  measurements. Such assessment should be carried out for a normal working day and be repeated over a period of time. Traffic noise levels should be predicted using the procedure set out in Calculation of Road Traffic Noise (HMSO 1988). The increase in noise during the construction phase must be considered using BS5228:Part 1: 2009 and BS 4145:1997 and any industrial noise considered using BS 4142: 1997 – Method of rating industrial noise affecting mixed residential and residential areas. District Councils also have power to control the hours and methods of work pursuant to the Pollution Control and Local Government (Northern Ireland) Order 1978. Please note that PPG 24: Planning and Noise - although not strictly applicable to Northern Ireland - may be referred to for guidance, together with the World Health Organisation Guidelines for Community Noise.

Noise maps for Northern Ireland together with information on the Environmental Noise Directive are available on the Department's website: [http://www.doeni.gov.uk/index/protect\\_the\\_environment/local\\_environmental\\_issues/noise.htm](http://www.doeni.gov.uk/index/protect_the_environment/local_environmental_issues/noise.htm) and the Noise Northern Ireland website: [www.noiseni.co.uk](http://www.noiseni.co.uk)

If I can be of any further assistance do not hesitate to contact me.

Yours sincerely

**DR BARRY MCAULEY**

Air and Environmental Quality  
Environmental Policy Division DOE

## Martin, Joseph

---

**From:** Irwin, Keith [keith.irwin@doeni.gov.uk]  
**Sent:** 04 December 2012 13:00  
**To:** Martin, Joseph  
**Subject:** Windfarm list update  
**Attachments:** windfarm list.pdf

As requested

Regards

**Keith Irwin**

**Write** : **Renewable Energy Team**  
**DOE Strategic Planning Division**  
**Millennium House**  
**17-25 Gt Victoria Street**  
**Malone Lower**  
**Belfast**  
**BT2 7BN**

**E-mail** : [keith.irwin@doeni.gov.uk](mailto:keith.irwin@doeni.gov.uk)

**Phone** : **02890 416804 (Ext. 85804)**



Please consider the environment before printing this email



# Northern Ireland Wind Farm Data

Last updated: 17/10/2012

APPROVED APPLICATIONS						
Nos	Reference	Name	District	No. of Turbines	Capacity (MW)	Co-ordinates
1	D/1993/0313/F	Corkey	Ballymoney	10	5	311382, 421765
2	B/1993/0377/F	Rigged Hill	Limavady	10	5	275303, 420217
3	G/1993/0648/F	Elliots Hill	Ballymena	10	5	322145, 396476
4	J/1994/0220/F	Bessy Bell	Strabane	10	5	238035, 381255
5	L/1992/0449/F	Slieve Rushen	Fermanagh	superseded	superseded	225019, 323199
6	J/1993/0286/F	Owenreagh	Strabane	10	5	242349, 396275
7	M/1997/0580/F	Lendrum's Bridge	Dungannon	20	13.2	242698, 354635
8	B/2000/0118/F	Altahullion	Derry	20	26	261949, 413181
9	K/2001/0458/F	Lough Hill	Omagh	superseded	superseded	superseded
10	L/2001/1514/F	Callagheen	Fermanagh	13	22.75	199109, 354913
11	L/2002/1042/F	Tappaghan	Fermanagh	13	19.5	229093, 368191
12	K/2003/0626/F	Bessy Bell II	Omagh	superseded	superseded	superseded
13	G/2004/0597/F	Wolf Bog	Ballymena	5	8.75 (Max)	323109, 396692
14	J/2004/1015/F	Owenreagh II	Strabane	6 (Sub. 5)	5.1	242727, 395952
18	J/2004/0295/F	Bin Mountain	Strabane	6	9	223817, 374313
19	K/2004/1139/F	Lough Hill II	Omagh	6	10.5	225276, 375585
24	B/2004/0795/F	Altahullion II	Limavady	9 (Sub. 5)	5.2 Add	261894, 412785
23	L/2004/2058/F	Slieve Rushen	Fermanagh	18	54	225059, 323785
15	D/2003/0329/F	Garves	Ballymoney	5	15	299275, 418126
40	D/2005/0628/F	Glenbuck	Ballymoney	1	2.5	300764, 415839
35	K/2005/0597/F	Slieve Divena	Omagh	12	24	258465, 362646
29	J/2005/0133/F	Crighshane	Strabane	14	28 (Max)	213120, 377157
36	J/2005/0358/F	Churchill	Strabane	8	16	218230, 378549
59	K/2006/1678/F	Bessy Bell (Rev)	Omagh	6	9	239622, 381549
39	K/2005/0537/F	Crockagarron	Omagh	6	18	263414, 367749
21	D/2004/0790/F	Gruig	Ballymoney	10	17.5	311607, 421152
41	K/2005/1691/F	Slieve Divena II	Omagh	8	12	258013, 362700
31	K/2005/0387/F	Hunters Hill	Omagh	8	13.2	243368, 354658
42	K/2005/1786/F	Thornog	Omagh	4	9.2	224153, 371150
25	A/2004/1243/F	Curryfree	Derry	6	15 (max)	244222, 409385
37	K/2005/0810/F	Screggagh	Omagh	8	18.4	242915, 356301
53	L/2006/1553/F	Tappaghan Ext	Fermanagh	6	9	228892, 368350
49	D/2006/0104/F	Long Mountain	Ballymoney	12	27.6	301338, 416154
48	K/2006/0164/F	Altamooskan	Omagh	3	6	257901, 363713
22	A/2004/1130/F	Slieve Kirk	Derry	12	27.6	247117, 408040
34	J/2005/0211/F	Carrickatane	Strabane	9	27	242952, 407525
50	K/2006/1089/F	Gortfinbar	Omagh	5	12.5	263013, 366689
66	L/2006/2371/F	Ballyreagh Tempo	Fermanagh	1	2.5	229999, 348702
28	J/2005/0104/F	Tievenamenta	Strabane	15	45	215163, 376634
64	B/2006/0607/F	Glenconway	Limavady	8	18.4	262461, 414739
46	U/2006/0054/F	Carn Hill	Newtownabbey	6	12.6	334181, 388065
47	K/2006/0242/F	Cregganconroe	Omagh	5	10	266558, 374262
45	K/2006/0074/F	Crockdun	Omagh	5	15	260197, 376754
67	B/2007/0006/F	Altahullion Phase III	Limavady	12	27.6	262092, 413282
73	B/2007/0563/F	Dunmore	Limavady	7	21	275357, 428460
60	K/2006/1793/F	Inishative	Omagh	6	15	265986, 369058
96	K/2009/0182/F	Crockagarran Ext	Omagh	1	3	264172, 367480
92	M/2008/1327/F	Mullynaveagh	Dungannon	2	4.6	274505, 348197
54	K/2006/1368/F	Pollnalaght	Omagh	12	30	234037, 370497
93	K/2009/0081/F	Pigeon Top	Omagh	9	20.7	235606, 370668
56	J/2006/0883/F	Seegronan	Strabane	6	14	219289, 377913
72	B/2007/0560/F	Dunbeg	Limavady	14	42	275482, 427244
44	L/2005/3070/F	Ora More	Fermanagh	6	18	207457, 342537
68	D/2006/0599/F	Glenbuck II	Ballymoney	3	6.9	300622, 416143
65	K/2006/1934/F	Castleraig	Omagh	10	30	226103, 375100
58	M/2006/1802/F	Eshmore	Dungannon	3	9	266560, 365323



74	C/2007/1186/F	Brockaghboy	Coleraine	15	45	280880, 410250
89	D/2010/0060/F	Corkey Ext.	Ballymoney	1	2.5	309803, 423548
77	M/2007/1407/F	Shantavny Scotch	Dungannon	7	14	258801, 360690
94	T/2008/0358/F	Connaught Road	Antrim	2	1.7	309773, 393015
91	K/2008/1153/F	Crockbaravally	Omagh	3	6.9	262360, 363432
90	I/2010/0211/F	Beltonanean	Cookstown	1	2.3	271719, 382541
80	I/2008/0157/F	Crockbrack	Cookstown	1	2	267553, 374535
97	K/2009/0243/F	Thornog Ext.	Omagh	4	9.2	223980, 370682
95	B/2009/0070/F	Smulgedon	Limavady	7	17.5	276091, 415089
99	A/2009/0868/F	Monnaboy	Derry	4	10	257075, 415629

**REFUSED APPLICATIONS**

Nos	Reference	Name	District	No. of Turbines	Capacity (MW)	Co-ordinates
26	H/2004/1395/F	Mullaghturk	Magherafelt	7	10.5	268150, 389048
52	L/2006/1197/F	Gortgall	Fermanagh	7	16.1	213625, 341868
87	Q/2007/0914/F	Slieve Croob	Banbridge	1	2.3	331186, 345366
79	J/2008/0088/F	Slieveglass	Strabane	3	6.9	227714, 377644
55	J/2006/0840/F	Altgolan	Strabane	7	17.5	221627, 375717

**WITHDRAWN APPLICATIONS**

Nos	Reference	Name	District	No. of Turbines	Capacity (MW)	Co-ordinates
16	L/2001/1346/F	Garrane	Fermanagh	10	17.5	250813, 339056
43	K/2005/2187/F	Rakelly	Omagh	6	13.8	238902, 383484
30	L/2005/0377/F	Belmore	Fermanagh	10	30	212932, 340598
17	M/2003/0999/F	Slieve Beagh	Dungannon	12	30	256355, 345108
27	L/2004/2483/F	Old Barr	Fermanagh	11	22	208318, 348389
32	J/2005/0213/F	Gortmonly	Strabane	6	18	239335, 407252
71	L/2007/1772/F	Callagheen Ext	Fermanagh	6	13.8	198242, 353886
82	C/2008/0163/F	Lisnamuck	Coleraine	3	6	284946, 422974
78	B/2007/0562/F	Farkland	Limavady	17	51	260547, 412588
84	M/2008/0476/F	Cappagh	Dungannon	3	9	268037, 367252
20	L/2004/0472/F	Tullinoid	Fermanagh	6	10.5	202489, 348367
57	G/2006/0754/F	Elginny Hill	Ballymena	10	20	314869, 410923
63	G/2006/0842/F	Rathsherry	Ballymena	9	20.7	315569, 411570
117	G/2011/0182/F	Douglas Top	Ballymena	17	51	323961, 401351



**PROPOSED APPLICATIONS**

Nos	Reference	Name	District	No. of Turbines	Capacity (MW)	Co-ordinates
33	A/2005/0223/F	Eglis	Derry	6	15	250484, 405097
38	U/2005/0281/F	Drumadarragh	Newtownabbey	4	11.5	323475, 394616
61	T/2006/0832/F	Corby Knowe	Antrim	3	9	317201, 393758
62	M/2006/1754/F	Slatbeg	Dungannon	9	20.7	251513, 345972
69	K/2007/0547/F	Clunahill	Omagh	6	18	229401, 371736
70	J/2007/0667/F	Gronan	Strabane	4	9.2	217713, 376552
75	J/2007/0309/F	Koram Hill	Strabane	6	13.8	240484, 395126
76	J/2007/0700/F	Tullywisker	Strabane	1	2	231192, 389435
81	K/2008/0334/F	Curraghmulkin (Dooish)	Omagh	10	23	231788, 369039
83	L/2008/0459/F	Teiges	Fermanagh	5	12.5	243270, 339721
85	J/2008/0278/F	Aghamore	Strabane	5	15	220785, 377455
86	J/2008/0240/F	Meenakeeran	Strabane	5	15	210720, 382514
88	L/2008/1113/F	Molly Mountain	Fermanagh	5	15	223773, 327723
98	D/2009/0142/F	Cloonty	Ballymoney	4	10	296770, 435929
100	H/2010/0009/F	Crockandun	Magherafelt	11	33	278648, 388573
101	J/2010/0168/F	Binnawooda	Strabane	15	34.5	223833, 376753
102	J/2010/0481/F	Craignagapple	Strabane	9	20.7	242986, 396706
103	D/2010/0356/F	Altaveedan	Ballymoney	9	22.5	311016, 426992
104	K/2010/0758/F	Crocknamona	Omagh	7	17.5	236500, 356500
105	G/2011/0041/F	Elginny Hill Revision	Ballymena	11	22	314439, 410774
106	G/2011/0052/F	Whappstown	Ballymena	4	9.2	321583, 397587
107	J/2011/0082/F	Crighshane Ext	Strabane	9	20.7	214565, 377344
108	G/2011/0136/F	Castlegore	Ballymena	6	15	320810, 397122
109	J/2011/0128/F	Ballylaw	Strabane	3	6.9	239597, 402754
110	G/2011/0155/F	Cloghinarney	Ballymena	6	13.8	321596, 402487
111	E/2011/0088/F	Carnealty	Moyle	4	9.2	308699, 439837
112	C/2011/0158/F	Croaghan	Coleraine	5	12.5	278881, 426142
113	G/2011/0162/F	Rathsherry Revision	Ballymena	11	16.5	315740, 411958
114	K/2011/0237/F	Dunaree Hill	Omagh	6	15	230714, 372527
115	A/2011/0202/F	Slieve Kirk Ext	Derry	5	15	247117, 408040
116	K/2011/0239/F	Altamooskan Ext	Omagh	3	7.5	257396, 363687
118	J/2011/0148/F	Meenablagh	Strabane	10	25	213597, 382568
119	C/2011/0459/F	Cam Burn	Coleraine	6	13.8	282834, 422383
120	C/2012/0276/F	Ballyrogan	Coleraine	5	11.5	279320, 416775
121	K/2012/0384/F	Greenan	Omagh	5	12.5	230648, 367340
122	A/2012/0401/F	Barr Cregg	Derry	7	17.5	254912, 411718
123	B/2012/0286/F	Craiggore	Limavady	10	25	276303, 417058



Date: 12/11/ 2012  
Your Ref:60032220  
Our Ref: FOI/25244  
(Please quote at all times)  
Contact:Hilda Clements



Department of  
the Environment  
[www.doeni.gov.uk](http://www.doeni.gov.uk)

Job No:	
<b>AECOM - Belfast</b>	
Reviewed by:	<i>EV</i>
Date:	16 NOV
Actioned by:	<i>Jm</i>
Date:	15.11.2012
Copy to:	
Filing Location:	Consolidated
Contact:	Correspondence Team
Telephone:	0300 200 7830
ES Consultations.	

Western Area Planning Office  
County Hall  
Drumragh Avenue  
Lisnamallard  
Omagh  
BT79 7AF

Fay Lagan  
AECOM  
9<sup>th</sup> Floor  
The Clarence West Building  
2 Clarence Street West  
Belfast  
BT2 7GP

Dear Mr Lagan,

**RE: Proposed Tyrone to Cavan Interconnector**

I am pleased to acknowledge receipt of your recent correspondence concerning the matters detailed above.

The issue(s) you have raised are receiving attention and a reply will be issued in due course.

Yours sincerely,

For Divisional Planning Manager



Date: 13<sup>th</sup> November 2012  
Your Ref: 60032220  
Our Ref: FOI 25244  
(Please quote at all times)



Ms Fay Lagan  
Principal Environmental Consultant  
AECOM  
9<sup>th</sup> Floor  
The Clarence West Building  
2 Clarence Street West  
Belfast  
BT2 7GP

Western Area Planning Office  
County Hall  
Drumragh Avenue  
Omagh  
BT79 7AF

Contact: Ms Hilda Clements  
Telephone: 028 8225 4046

Dear Madam,

**Re: Proposed Tyrone to Cavan Interconnector – 400KV Overhead Line and Substation**

I refer to your letter received on 12<sup>th</sup> November 2012 regarding the above matter.

The Dungannon and South Tyrone Area Plan 2010 remains the statutory development plan for the area. Previous Development Plan comments on the proposal had stressed the importance in ensuring that new lines do not 'sterilise' potential development land within /near designated settlements. Our last consultation on 20th October 2011 noted that the lines appeared to run near to The Moy and Benburb but did not encroach on any of them. If this remains the case, then I would advise that we have no additional comments to make regarding the proposal.

Yours faithfully,

Hilda Clements  
Senior Planning Officer  
Development team  
Western Area Planning Office

Job No:	
AECOM - Belfast	
Reviewed by:	
Date:	16 NOV 2012
Actioned by:	
Date:	15.11.2012.
Copy to:	
Filing Location:	Consolidated ES Consultations.



**Western Division**  
 County Hall  
 Drumragh Avenue  
 Omagh  
 County Tyrone  
 BT9 7AF

Ms Fay Lagan  
 Principal Environmental Consultant  
 AECOM  
 9<sup>th</sup> Floor  
 The Clarence West Building  
 2 Clarence Street West  
 Belfast  
 BT2 7GP

Job No:	AECOM - Belfast
Reviewed by:	<i>[Signature]</i>
Date:	26 NOV 2012
Actioned by:	<i>[Signature]</i>
Date:	26.11.2012
Copy to:	
Filing Location:	
NS INTERCONNECTOR	
FILE	

Telephone: (0300 200 7894  
 Fax: (028) 8225 4010  
 Email: roads.western@drdni.gov.uk  
 www.drdni.gov.uk

Your ref: 60032220

Our Ref: DRM/5 - 31723

Date: 19 November 2012

Dear Ms Lagan

**PROPOSED TYRONE TO CAVAN INTERCONNECTOR-400 KV OVERHEAD LINE AND SUBSTATION**

Thank you for your letter dated 9th November 2012.

I understand that this matter was dealt with through a planning application, No. O/2008/0822/Q, which was commented on by Roads Service's Southern Division. I will forward your letter to Acting Divisional Roads Manager, Mr Reynold Nicholson, Marlborough House, Craigavon for him to decide if any additional comments are needed in relation to this application.

Yours sincerely

*[Signature]*  
 P B Doherty  
 Divisional Roads Manager



AECOM  
 9<sup>th</sup> Floor  
 The Clarence West Building  
 2 Clarence Street West  
 BELFAST  
 Co Antrim  
 BT2 7GP

Your Ref: 60032220

Our Ref: 31723

12 November 2012

Dear Sir/Madam

**PROPOSED TYRONE TO CAVAN INTERCONNECTOR - 400 KV OVERHEAD LINE AND SUBSTATION**

Thank you for your letter dated 09 November 2012, received 12 November 2012 regarding the above.

We hope to issue a reply by 03 December 2012.

Yours sincerely

*P B Doherty*

P B Doherty  
 Divisional Roads Manager

Job No:			
AECOM - Belfast			
Reviewed by:			
Date: 14 NOV 2012			
Actioned by: JM.			
Date: 14.11.12		Email: roads.western@drdni.gov.uk	
Copy to:			
Filing Location:			
A - N/S Consolidated ES			
FOLDER			

**Western Division**  
 County Hall  
 Drumragh Avenue  
 Omagh  
 County Tyrone  
 BT79 7AF

Telephone: (0300 200 7894  
 Fax: (028) 8225 4010  
 www.drdni.gov.uk



**Southern Division**

Marlborough House  
 Central Way  
 Craigavon  
 BT64 1AD

Telephone: (028) 3834 1144  
 Fax: (028) 3834 1867

Fay Lagan  
 AECOM  
 9<sup>th</sup> Floor  
 The Clarence West Building  
 2 Clarence Street West  
 BELFAST  
 BT2 7GP

Job No:	AECOM - Belfast	
Reviewed by:	FL	
Date:	10 DEC 2012	
Actioned by:	JM	
Date:	11.12.2012	
Copy to:		
Filing Location:	N/S Interconnector FILE.	

Date: 5 December 2012

Your Ref:  
 Our Ref:

Dear Sir

**RE: PROPOSED TYRONE TO CAVAN INTERCONNECTOR – 400 KV OVERHEAD LINE AND SUBSTATION**

I refer to your letter dated 9 November 2012 to Mr Pat Doherty of Roads Service Western Division in relation to the proposed Tyrone to Cavan Interconnector. Your enquiry relates to the area of work for which I am responsible.

I can confirm that Roads Service, in conjunction with Planning Service, will facilitate a meeting in order to discuss potential issues in relation to the above proposed development.

In relation to arranging this meeting, please do not hesitate to contact Mr Thomas Kelly on 028 3832 0091.

I hope you find this reply helpful.

Yours sincerely



**CIARÁN McKENNA**  
 Traffic, Planning & Network Development Manager



Geological Survey of  
Northern Ireland

Job No:	AECOM - B
Reviewed by:	FL
Date:	- 5 DEC 2012
Actioned by:	Jm.
Date:	05.12.12
Copy to:	
Filing Location:	NIS INTERCONNECTOR



Department of  
**Enterprise, Trade  
and Investment**

[www.detini.gov.uk](http://www.detini.gov.uk)

Colby House  
Stranmillis Court  
Stranmillis Road  
Belfast BT9 5BF  
Telephone: 028 90388462  
Textphone: 028 90529304  
Fax: 028 90388461

Our Ref: E1/12/450, Prev. Ref: E1/06/409  
Your Ref: 600232220

04 December 2012

Ms Fay Lagan  
Principal Environmental Consultant  
Aecom  
9<sup>th</sup> Floor  
The Clarence West Building  
2 Clarence Street West  
Belfast  
BT2 7GP

Dear Ms Lagan

**RE: PROPOSED TYRONE/ CAVAN INTERCONNECTOR- 400Kv OVERHEAD LINE  
& SUBSTATION**

Your letter dated 09 November 2012 refers.

GSNI has no additional comment to make regarding this application

As stated in our previous consultation response, the GSNI is an appropriate starting point for geological and hydrogeological research when you are carrying out your environmental assessment and preparing the ES. The Survey's archives contain a comprehensive range of geological maps and databases with information relating to bedrock and drift geology throughout Northern Ireland.

Please do not hesitate contact me if you wish to check the availability of geological maps and information or discuss your development in more detail.

Yours Sincerely

Terence P Johnston C. Geol.



# Comhairle Contae Mhuineacháin Monaghan County Council



Acmhainní Daonna  
Human Resource  
047 30586

Airgeadas  
Finance  
047 30589

Na Bóithre  
Roads  
047 30597

Clár na dToghthóirí  
Register of Electors  
047 30547

Comhshaol  
Environment  
047 30593

Deontais Ardoideachais  
Higher Education Grants  
047 30550

Na hEalaíona  
Arts  
047 71114

Iasachtaí / Deontais Tithíochta  
Housing Loans/Grants  
047 30527

Leabharlann an Chontae  
County Library  
047 51143

Mótarcháin  
Motor Tax  
047 81175

Músaem an Chontae  
County Museum  
047 82928

Pleanáil  
Planning  
047 30532

Pobal & Fiontar  
Community & Enterprise  
047 30500

Rialú Dóiteáin/Foirgnimh  
Fire/Building Control  
047 30521

Seirbhísí Uisce  
Water Services  
047 30504

Our ref:  
Your ref: 60032220  
Date: 07 Jan 2013

**Fay Lagan**  
AECOM  
9<sup>th</sup> Floor  
The Clarence West Building  
2 Clarence Street West  
Belfast  
Northern Ireland  
BT2 7GP

Dear Sir

Job No:	AECOM - Belfast	
Reviewed by:		
		JM.
Date:	11 JAN 2013	
Actioned by:	JM.	
Date:	11.01.2013	
Copy to:		
Filing Location:	INTERCONNECTOR FILE LOCATION	

**Re: Proposed Tyrone to Cavan Interconnector – 400 kV Overhead Line and Substation**

Thank you for your letter of 13 December 2012 in respect of the above matter, addressed to Mr David Fallon, Acting County Manager.

Unfortunately it is unclear from your correspondence as to the nature of your involvement in this project. Similarly, it is also unclear as to the precise nature of the information that you are seeking the Local Authority to provide.

I would be obliged if you could clarify the above matters and I will be happy to process your request.

Yours sincerely

Adrian Hughes  
Senior Planner

Comhairle Contae Mhuineacháin, Oifigí an Chontae, Bóthar an Ghleanna, Muineachán, Éire.  
Monaghan County Council, Council Offices, The Glen, Monaghan, Ireland.

☎ 00353 47 30500 📠 00353 47 82739 📧 info@monaghancoco.ie 🌐 www.monaghan.ie



Mary Maguire  
AECOM  
Clarence West Building  
Clarence Street West  
Belfast  
BT2 7GP

**Your Ref:** L23600/OT  
**Our Ref:** WQU07960  
**Date:** 20 November 2012

Dear Mary,

**Re: Tyrone/Cavan Interconnector**

Thank you for your email sent on 30 October 2012 relating to the above.

WMU hold the following information relating to water which may be of use when carrying out your assessment:-

**Abstractions**

Please see attached - **NIEA – WMU – WQU07960 – Abstraction – Response.xls**

**Pollution Incidents**

Please see attached - **NIEA – WMU – WQU07960 – Pollution Incidents – Response.xls**

**Consented Industrial Discharges**

Please see attached - **NIEA – WMU – WQU07960 – Industrial Consents – Response.xls**

**Consented Agricultural Discharges**

Please see attached – **Data request 1. jpg**



## NIW Ltd. Discharges

NIWL operational assets within 1km of the supplied shape file:

NAME	Type	Asset Grid ref	Discharge Grid
Blackwatertown WwPS	ERO	284094-352376	284068-352394
Artasooly WwPS	ERO	281970-349538	281970-349531
Edenderry Artasooly WwPS	None	282035-349829	
Redford WWTW	WWTW	282982-358613	
Lisdown WWTW	WWTW	282960-346798	
Drumhillery WWTW	WWTW	279225-336189	298496-345765

## Water Framework Directive – Catchment Management Officer response

### Query 1:

Confirmation of the status (i.e. Main River or Ordinary Watercourse) for the watercourses within the study area:

### The 2009 classification of river waterbodies positioned within the Study area.

Waterbody Name	2009 Classification
<b>Clontibret Stream (ROI)</b> EuropeanCode UKGBNI1NB030308202 Blackwater/ Monaghan County Council Cross Border Code: XB_03_9	<b>Poor</b>
<b>Cor River Trib</b> EuropeanCode UKGBNI1NB030307096	<b>Moderate</b>
<b>River Blackwater</b> EuropeanCode UKGBNI1NB030307095	<b>Poor</b>
<b>Ballymortrim Water</b> EuropeanCode UKGBNI1NB030307045	<b>Poor</b>
<b>River Blackwater</b> EuropeanCode UKGBNI1NB030307040	<b>Moderate</b>
<b>River Blackwater Benburb</b> EuropeanCode UKGBNI1NB030307043	<b>Moderate</b>
<b>Name River Blackwater</b> EuropeanCode UKGBNI1NB030307027	<b>Poor</b>
<b>Name Ballyrath Callan</b> EuropeanCode UKGBNI1NB030307032	<b>Moderate</b>
<b>Name River Blackwater</b> EuropeanCode UKGBNI1NB030307027	<b>Poor</b>
<b>Name River Rhone</b> EuropeanCode UKGBNI1NB030307036	<b>Poor</b>
<b>Name River Blackwater</b> EuropeanCode UKGBNI1NB030307132	<b>Poor</b>
<b>Name Drumard Burn Blackwater</b> European Code UKGBNI1NB030307050	<b>Bad</b>

River Blackwater Local Management Area 2009 River Status and Objectives:  
[http://www.doeni.gov.uk/niea/river\\_blackwater\\_historical\\_status.pdf](http://www.doeni.gov.uk/niea/river_blackwater_historical_status.pdf)

## Query 5

WFD Action Plans for the River Rhone, River Blackwater, Ballymartrin Water, Tynan Water and Clontibret Stream (which are all part of the Neagh Bann International River Basin Management Plan):

**Actions for each waterbody can be found in the River Blackwater Local Management Area Action Plan**

[http://www.doeni.gov.uk/niea/river-blackwater\\_lma\\_actionplan.pdf](http://www.doeni.gov.uk/niea/river-blackwater_lma_actionplan.pdf)

**Clontibret stream (8202) is a cross border waterbody**, additional information may be obtained from the Blackwater WMU Action Plan or obtained from Monaghan County Council.

## Query 6

Details of any other water attribute or recreational / amenity activity (e.g. commercial fishery, angling, navigation, etc.) that we should be aware of and that would have relevance to the value of the water body and the impact assessment:

### **For Information:**

Contact the Armagh City and District Council for recreational/amenity activities.

Contact DCAL regarding fisheries and angling in the area.

Contact Inland Waterways regarding navigation.

## Query 7

Any other environmental reports or studies that may be relevant (e.g. relating to the Hydrology of the study area) that we should be made aware of:

**NIEA have not carried out any hydrological surveys in the study area.**

If you require any further water related environmental information about this or any other site please email details of your information request to [WaterInfo@doeni.gov.uk](mailto:WaterInfo@doeni.gov.uk)

Yours sincerely,

Information Management  
Water Management Unit

APPREFNO	LOCAL_NAME	IGR	SOURCE	SECTORID
AIL\2010\0015	Ballymartrim Water	H8267245471	Surface water	Hydro Power



STATION	FILEREF	CATCHMENT	COMPANY	TITLE1	TITLE2	TITLE3	TITLE4	POSTCODE	GRIDREF	EASTING	NORTHING	INDUSTRY NAME	DischargeDestination	DateOpened	CONSENTNO
61403	TC126/01	203/06/01	T H Jenkinson & Co	3 Hanslough Road	Middletown	Armagh	Co. Armagh	BT60 4HG	H7998038930	279980	338930	Private Sewage : Unspecified	U	04-Jul-01	137/01
61543	TC218/01	203/06/01	H McMullan & Son	132 Moy Road	Dungannon		Co. Armagh	BT71 7DX	H8329057860	283290	357860	Site Drainage-Intercepted : Fuel Depot	W	02-Oct-01	56/02
61544	TC219/01	203/06/01	H McMullan & Son	132 Moy Road	Dungannon		Co. Armagh	BT71 7DX	H8331057870	283310	357870	Vehicle Washing	U	02-Oct-01	57/02
61575	WC5/87	203/06/01	Armagh District Council	Bracknagh Road/Woolseys Bridge Waste Disposal Site	Cullentragh	Killylea, Armagh	Co. Armagh	BT60 4QA	H8146045860	281460	345860	Waste Disposal Site : Non-Inert	U	03-Mar-87	1960/87
61774	TC163/00	203/06/01		87 Killylea Road	Armagh		Co. Armagh	BT60 4LQ	H8334044460	283340	344460	Private Sewage : Unspecified	U	01-Nov-00	138/02
62489	TC231/04	203/06/01		185 Monaghan Road	Armagh		Co. Armagh	BT60 4EZ	H8103039700	281030	339700	Site Drainage-Intercepted : Scrap Yard	W	15-Sep-04	97/05
62490	TC232/04	203/06/01		185 Monaghan Road	Armagh		Co. Armagh	BT60 4EZ	H8112039610	281120	339610	Site Drainage-Intercepted : Scrap Yard	W	15-Sep-04	98/05
62552	TC254/04	203/06/01	MFS Fuel Supplies Ltd	32 Broctally Road	Armagh		Co. Armagh	BT60 4DY	H8160040820	281600	340820	Site Drainage-Intercepted : Fuel Depot	W	16-Sep-04	154/05
63040	TC59/06	203/06/01		3 Holiday Apartments at	142 Moy Road	Dungannon	Co. Tyrone	BT71 7DX	H8351057580	283510	357580	Private Sewage : Unspecified	U	03-Mar-06	274/06
63108	TC116/06	203/06/01	Edenderry Developments	Edenderry Drive	Maydown Road	Benburb	Co. Armagh	BT71 7TX	H8222049740	282220	349740	Private Sewage : Emergency Overflow	W	06-Apr-06	379/06
63550	TC116/07	203/06/01	J. Woods (L) Ltd	40 Dernalet Road	Armagh		Co. Armagh	BT60 4EA	H8040039700	280400	339700	Food Processing : Unspecified	W	14-May-07	344/07
64385	TC93/09	203/06/01	Lifeboat Mission	89 Old Moy Road	Drumgold	Dungannon	Co. Tyrone	BT71 6PX	H8289058530	282890	358530	Private Sewage : Unspecified	W	21-May-09	5/10
64848	TC9/11	203/06/01	O & S Doors Limited	106 Syerla Road	Benburb		Co. Tyrone	BT71 7ET	H8203255514	282020	355480	Private Sewage : Unspecified	W	19-Jan-11	159/11
64942	TC180/11	203/06/01	Madden Schoolhouse Heritage Committee	Madden Old School House (St John's Parish Hall)	111 Madden Road	Keady	Co. Armagh	BT60 3LJ	H8104736604	281047	336604	Private Sewage : Unspecified	W	07-Dec-11	35/12
65168	NC2098/12	203/06/01		3 Derryoghill Road	Benburb	Dungannon	Co. Tyrone	BT71 7JJ	H8404552430	284040	352420	Private Sewage : Domestic	W	28-Jun-12	2206/12
65226	NC2449/12	203/06/01		23 Derryoghill Road	Dungannon		Co. Tyrone	BT71 7JJ	H8399553160	283990	353150	Private Sewage : Domestic	U	18-Jul-12	2299/12

Date btwn 1/1/2009 -31/12/2011

**Confirmed pollution incidents within Upper Neagh Bann CSG  
within which the requested parameters lie.**

Time Taken 25mins

<b>INVESTIGAT</b>	<b>POLLUTION_</b>	<b>SOURCE_NO</b>	<b>SEVERITY</b>	<b>X_COORD</b>	<b>Y_COORD</b>
05/01/2009	Yes	DOMESTIC	Low	313924	370216
05/01/2009	Yes	FARM	Low	287776	337330
06/01/2009	Yes	DOMESTIC	Low	321502	370589
06/01/2009	Yes	FARM	Low	322868	339978
07/01/2009	Yes	INDUSTRY	Medium	292653	342758
07/01/2009	Yes	WATER SERVICE	Medium	284994	334555
07/01/2009	Yes	FARM	Low	246120	349429
07/01/2009	Yes	OTHER	Medium	301978	356569
08/01/2009	Yes	TRANSPORT	Low	310513	366395
08/01/2009	Yes	TRANSPORT	Low	311934	365008
08/01/2009	Yes	DOMESTIC	Low	314247	369614
13/01/2009	Yes	FARM	Low	301691	330628
14/01/2009	Yes	FARM	Low	285548	374444
14/01/2009	Yes	TRANSPORT	Low	304634	344831
15/01/2009	Yes	INDUSTRY	Low	281398	376147
20/01/2009	Yes	DOMESTIC	Low	293222	357920
26/01/2009	Yes	INDUSTRY	Medium	271194	363434
27/01/2009	Yes	DOMESTIC	Low	291228	345867
31/01/2009	Yes	OTHER	Low	276708	374418
03/02/2009	Yes	INDUSTRY	Low	281296	377995
05/02/2009	Yes	INDUSTRY	Low	286157	359780
05/02/2009	Yes	INDUSTRY	Low	305682	359930
06/02/2009	Yes	DOMESTIC	Low	285522	356123
09/02/2009	Yes	WATER SERVICE	Low	305694	357627
09/02/2009	Yes	INDUSTRY	Low	286663	361326
09/02/2009	Yes	FARM	Low	300011	329208

12/02/2009	Yes	INDUSTRY	Low	263141	357454
15/02/2009	Yes	FARM	Medium	280950	366147
16/02/2009	Yes	DOMESTIC	Low	283800	384072
17/02/2009	Yes	INDUSTRY	Medium	285888	344878
17/02/2009	Yes	INDUSTRY	Medium	291956	350914
17/02/2009	Yes	TRANSPORT	Medium	281152	377155
18/02/2009	Yes	FARM	Low	256150	349386
19/02/2009	Yes	FARM	Low	280937	368739
20/02/2009	Yes	DOMESTIC	Low	291581	347500
23/02/2009	Yes	INDUSTRY	Medium	285418	365043
23/02/2009	Yes	DOMESTIC	Low	311059	366681
25/02/2009	Yes	OTHER	Low	287069	344803
25/02/2009	Yes	FARM	Medium	272352	348102
26/02/2009	Yes	DOMESTIC	Low	273526	349242
26/02/2009	Yes	DOMESTIC	Low	273358	350306
27/02/2009	Yes	INDUSTRY	Low	268768	360566
27/02/2009	Yes	FARM	Low	281752	352166
02/03/2009	Yes	DOMESTIC	Low	301093	362181
02/03/2009	Yes	FARM	Low	301000	342149
02/03/2009	Yes	INDUSTRY	Low	299803	329695
02/03/2009	Yes	WATER SERVICE	Low	313996	345209
03/03/2009	Yes	DOMESTIC	Low	326608	338884
04/03/2009	Yes	INDUSTRY	Low	309840	364906
05/03/2009	Yes	FARM	Low	279521	334550
07/03/2009	Yes	OTHER	Low	291065	344435
09/03/2009	Yes	INDUSTRY	Low	288153	334721
10/03/2009	Yes	WATER SERVICE	Medium	301476	353913
10/03/2009	Yes	INDUSTRY	Low	270831	360615
10/03/2009	Yes	WATER SERVICE	Low	301517	353877
11/03/2009	Yes	WATER SERVICE	Low	290903	355881
11/03/2009	Yes	FARM	Low	279901	353553
11/03/2009	Yes	INDUSTRY	Medium	277840	364897



13/03/2009	Yes	WATER SERVICE	Medium	301195	354148
13/03/2009	Yes	FARM	Low	321042	378572
14/03/2009	Yes	INDUSTRY	Low	277829	364899
18/03/2009	Yes	INDUSTRY	Low	288651	349573
19/03/2009	Yes	DOMESTIC	Low	313012	345440
19/03/2009	Yes	TRANSPORT	Low	280328	378160
19/03/2009	Yes	INDUSTRY	Low	263618	357477
20/03/2009	Yes	DOMESTIC	Medium	272930	358908
22/03/2009	Yes	WATER SERVICE	Low	314496	375807
25/03/2009	Yes	DOMESTIC	Low	283709	352008
31/03/2009	Yes	WATER SERVICE	Medium	279197	372303
31/03/2009	Yes	OTHER	Medium	301179	354349
31/03/2009	Yes	OTHER	Low	300797	354863
31/03/2009	Yes	DOMESTIC	Low	300844	354196
01/04/2009	Yes	INDUSTRY	Low	299425	353985
02/04/2009	Yes	WATER SERVICE	Low	314653	375774
06/04/2009	Yes	WATER SERVICE	Low	306388	360963
08/04/2009	Yes	INDUSTRY	Low	272789	379887
08/04/2009	Yes	INDUSTRY	Low	263789	357884
17/04/2009	Yes	INDUSTRY	Medium	287372	361502
17/04/2009	Yes	INDUSTRY	Medium	287626	361435
22/04/2009	Yes	WATER SERVICE	Medium	302762	359560
23/04/2009	Yes	WATER SERVICE	Low	254575	352669
23/04/2009	Yes	DOMESTIC	Low	286252	358577
23/04/2009	Yes	DOMESTIC	Low	300630	327210
27/04/2009	Yes	INDUSTRY	Low	265476	359621
30/04/2009	Yes	FARM	Low	279179	366320
30/04/2009	Yes	DOMESTIC	Low	288767	366734
01/05/2009	Yes	WATER SERVICE	Medium	321689	329405
06/05/2009	Yes	OTHER	Low	275154	352285
06/05/2009	Yes	DOMESTIC	Low	290164	365848

06/05/2009	Yes	FARM	Low	265154	360039
07/05/2009	Yes	FARM	Low	285695	362483
08/05/2009	Yes	FARM	Medium	279495	334481
11/05/2009	Yes	DOMESTIC	Low	289617	358051
12/05/2009	Yes	WATER SERVICE	Low	328407	333638
13/05/2009	Yes	INDUSTRY	Medium	279600	350500
19/05/2009	Yes	INDUSTRY	Low	282345	365347
19/05/2009	Yes	TRANSPORT	Low	283175	332646
21/05/2009	Yes	FARM	Low	284853	355879
21/05/2009	Yes	FARM	Medium	280994	381245
26/05/2009	Yes	OTHER	Low	273460	358577
27/05/2009	Yes	FARM	Low	273156	363863
30/05/2009	Yes	WATER SERVICE	Low	306016	348784
03/06/2009	Yes	FARM	Medium	310751	360699
03/06/2009	Yes	WATER SERVICE	Medium	280376	351646
04/06/2009	Yes	FARM	Medium	303595	358995
05/06/2009	Yes	DOMESTIC	Low	313982	367647
08/06/2009	Yes	DOMESTIC	Low	321502	370584
08/06/2009	Yes	FARM	Low	274408	365631
09/06/2009	Yes	DOMESTIC	Low	314055	370035
09/06/2009	Yes	WATER SERVICE	Low	303522	345555
10/06/2009	Yes	DOMESTIC	Low	314361	376234
10/06/2009	Yes	FARM	Medium	250193	358320
10/06/2009	Yes	INDUSTRY	Medium	277386	360370
13/06/2009	Yes	OTHER	Low	315492	376489
14/06/2009	Yes	FARM	Medium	296184	379116
15/06/2009	Yes	INDUSTRY	Low	277878	364911
15/06/2009	Yes	INDUSTRY	Low	264922	351549
16/06/2009	Yes	WATER SERVICE	Low	290923	357512
22/06/2009	Yes	FARM	Medium	303199	344271
25/06/2009	Yes	INDUSTRY	Low	303323	356465
25/06/2009	Yes	WATER SERVICE	Medium	314602	375659

25/06/2009	Yes	INDUSTRY	Low	287835	359244
25/06/2009	Yes	INDUSTRY	Low	273847	369717
25/06/2009	Yes	INDUSTRY	Low	291711	348646
26/06/2009	Yes	DOMESTIC	Low	286915	387403
26/06/2009	Yes	FARM	Low	288122	369485
26/06/2009	Yes	DOMESTIC	Low	287947	370013
27/06/2009	Yes	FARM	Medium	284208	347695
29/06/2009	Yes	WATER SERVICE	Low	314822	376260
29/06/2009	Yes	DOMESTIC	Low	303636	352328
29/06/2009	Yes	WATER SERVICE	Medium	281700	376597
01/07/2009	Yes	FARM	Low	279582	334513
01/07/2009	Yes	FARM	Low	319473	377715
01/07/2009	Yes	INDUSTRY	Medium	270843	360602
02/07/2009	Yes	WATER SERVICE	Low	302121	357996
02/07/2009	Yes	DOMESTIC	Low	288316	366064
02/07/2009	Yes	INDUSTRY	Medium	278252	363593
07/07/2009	Yes	FARM	Medium	304249	345943
07/07/2009	Yes	FARM	Low	312006	374955
08/07/2009	Yes	FARM	Medium	290790	348681
15/07/2009	Yes	FARM	Medium	284766	356232
20/07/2009	Yes	INDUSTRY	Low	276073	379594
22/07/2009	Yes	TRANSPORT	Low	278798	359825
22/07/2009	Yes	OTHER	Low	306785	361145
23/07/2009	Yes	INDUSTRY	Low	328275	340021
29/07/2009	Yes	FARM	Low	299251	335254
29/07/2009	Yes	INDUSTRY	High	287617	359221
29/07/2009	Yes	DOMESTIC	Medium	299568	354323
29/07/2009	Yes	DOMESTIC	Low	283272	329171
03/08/2009	Yes	DOMESTIC	Low	292849	351418
04/08/2009	Yes	WATER SERVICE	Low	290862	352182
08/08/2009	Yes	OTHER	Low	314212	368916



10/08/2009	Yes	DOMESTIC	Low	285835	365489
10/08/2009	Yes	DOMESTIC	Low	285288	342415
13/08/2009	Yes	INDUSTRY	Low	308729	361938
14/08/2009	Yes	INDUSTRY	Low	285303	358044
14/08/2009	Yes	FARM	Low	312323	365311
17/08/2009	Yes	DOMESTIC	Medium	273175	354330
17/08/2009	Yes	OTHER	Low	288130	367770
17/08/2009	Yes	WATER SERVICE	Low	288066	367853
18/08/2009	Yes	FARM	Low	274277	378502
19/08/2009	Yes	WATER SERVICE	Low	286018	343583
20/08/2009	Yes	DOMESTIC	Low	310016	349338
20/08/2009	Yes	WATER SERVICE	Low	299422	346968
20/08/2009	Yes	INDUSTRY	Low	302509	356612
20/08/2009	Yes	INDUSTRY	Low	256968	354371
25/08/2009	Yes	INDUSTRY	Medium	274757	378454
30/08/2009	Yes	OTHER	Low	290996	344312
11/09/2009	Yes	INDUSTRY	High	288955	346252
15/09/2009	Yes	DOMESTIC	Low	248843	352311
18/09/2009	Yes	DOMESTIC	Low	302533	346488
18/09/2009	Yes	FARM	Medium	314854	346100
19/09/2009	Yes	DOMESTIC	Low	299721	363059
23/09/2009	Yes	INDUSTRY	Low	290975	355833
23/09/2009	Yes	OTHER	Low	290944	355849
24/09/2009	Yes	DOMESTIC	Low	294456	351354
25/09/2009	Yes	FARM	Low	303825	353697
26/09/2009	Yes	INDUSTRY	Medium	273706	336908
26/09/2009	Yes	OTHER	Low	281295	375981
29/09/2009	Yes	WATER SERVICE	Low	290867	355963
29/09/2009	Yes	WATER SERVICE	Medium	272393	366294
30/09/2009	Yes	DOMESTIC	Low	295169	360401
01/10/2009	Yes	FARM	Medium	294403	351354
02/10/2009	Yes	FARM	Medium	308451	346668

06/10/2009	Yes	DOMESTIC	Low	284572	349416
07/10/2009	Yes	FARM	Medium	283164	379337
07/10/2009	Yes	FARM	Medium	280935	368736
11/10/2009	Yes	OTHER	Medium	287305	358584
11/10/2009	Yes	TRANSPORT	Low	271318	356319
12/10/2009	Yes	INDUSTRY	Low	275992	379484
12/10/2009	Yes	FARM	Low	281908	364874
13/10/2009	Yes	DOMESTIC	Low	269265	353168
13/10/2009	Yes	DOMESTIC	Low	254082	353535
13/10/2009	Yes	FARM	Medium	281828	346350
13/10/2009	Yes	OTHER	Low	254084	353533
14/10/2009	Yes	FARM	Medium	286481	341836
15/10/2009	Yes	INDUSTRY	Low	296500	375479
17/10/2009	Yes	WATER SERVICE	Medium	314901	376625
20/10/2009	Yes	INDUSTRY	Low	284814	356006
20/10/2009	Yes	INDUSTRY	Low	284277	356521
23/10/2009	Yes	TRANSPORT	Low	285054	356112
27/10/2009	Yes	FARM	Low	294779	340231
02/11/2009	Yes	DOMESTIC	Low	309288	363556
03/11/2009	Yes	INDUSTRY	Low	273525	360421
04/11/2009	Yes	FARM	Medium	292861	341444
04/11/2009	Yes	FARM	Low	292860	341439
12/11/2009	Yes	FARM	Medium	269981	355547
13/11/2009	Yes	OTHER	Medium	291840	357857
17/11/2009	Yes	FARM	Low	269525	355235
17/11/2009	Yes	INDUSTRY	Medium	304761	344604
17/11/2009	Yes	FARM	Medium	283565	373352
18/11/2009	Yes	FARM	Medium	284088	373686
18/11/2009	Yes	WATER SERVICE	Low	306349	361019
19/11/2009	Yes	FARM	Low	257224	346904
20/11/2009	Yes	INDUSTRY	Low	286849	345676

23/11/2009	Yes	OTHER	Low	291418	360220
27/11/2009	Yes	FARM	Low	280529	339136
27/11/2009	Yes	INDUSTRY	Low	305864	358911
02/12/2009	Yes	OTHER	Low	314680	376130
03/12/2009	Yes	FARM	Medium	285714	345323
04/12/2009	Yes	FARM	Medium	300013	329209
04/12/2009	Yes	INDUSTRY	Low	305842	358912
04/12/2009	Yes	FARM	Low	299761	328915
08/12/2009	Yes	OTHER	Low	314954	375150
08/12/2009	Yes	DOMESTIC	Low	285631	367871
09/12/2009	Yes	DOMESTIC	Low	285950	355255
11/12/2009	Yes	DOMESTIC	Low	284846	335480
14/12/2009	Yes	FARM	Medium	299093	329059
14/12/2009	Yes	INDUSTRY	Low	314172	367471
15/12/2009	Yes	WATER SERVICE	Low	282397	365392
17/12/2009	Yes	FARM	Medium	320743	369208
20/12/2009	Yes	DOMESTIC	Low	288738	344315
04/01/2010	Yes	DOMESTIC	Low	323905	378489
08/01/2010	Yes	INDUSTRY	Medium	286849	345675
11/01/2010	Yes	DOMESTIC	Low	313663	366889
13/01/2010	Yes	OTHER	Low	280628	361229
13/01/2010	Yes	FARM	Low	286827	364275
14/01/2010	Yes	FARM	Medium	302751	346408
14/01/2010	Yes	FARM	Medium	302322	340074
14/01/2010	Yes	FARM	Low	302473	346579
15/01/2010	Yes	DOMESTIC	Low	300562	340334
19/01/2010	Yes	FARM	Medium	294778	340226
19/01/2010	Yes	DOMESTIC	Low	265758	352795
20/01/2010	Yes	FARM	Low	300550	330767
20/01/2010	Yes	FARM	Low	280577	339202
21/01/2010	Yes	WATER SERVICE	Medium	282355	365357
22/01/2010	Yes	FARM	Low	303904	359963



22/01/2010	Yes	INDUSTRY	Low	303873	359975
22/01/2010	Yes	OTHER	Medium	288815	340919
25/01/2010	Yes	FARM	Low	302437	339899
25/01/2010	Yes	DOMESTIC	Low	284605	356375
26/01/2010	Yes	FARM	Medium	321473	345212
26/01/2010	Yes	FARM	Medium	320909	343519
27/01/2010	Yes	OTHER	Low	298693	335695
27/01/2010	Yes	DOMESTIC	Low	283115	347860
28/01/2010	Yes	FARM	Medium	249447	352002
28/01/2010	Yes	FARM	Medium	279594	334529
02/02/2010	Yes	OTHER	Low	309291	365483
02/02/2010	Yes	FARM	Medium	278966	349304
04/02/2010	Yes	FARM	Low	325495	338258
05/02/2010	Yes	DOMESTIC	Low	281371	361880
05/02/2010	Yes	FARM	Medium	316826	370041
08/02/2010	Yes	INDUSTRY	Low	277246	360671
08/02/2010	Yes	INDUSTRY	Medium	279597	350454
08/02/2010	Yes	INDUSTRY	Low	291695	348573
09/02/2010	Yes	WATER SERVICE	Low	314631	376128
09/02/2010	Yes	OTHER	Low	310714	368673
09/02/2010	Yes	DOMESTIC	Low	320215	377849
10/02/2010	Yes	FARM	Medium	320429	332637
10/02/2010	Yes	OTHER	Low	312249	362612
11/02/2010	Yes	OTHER	Low	288458	345610
11/02/2010	Yes	INDUSTRY	Low	288264	345429
11/02/2010	Yes	WATER SERVICE	Low	301342	353144
11/02/2010	Yes	WATER SERVICE	Low	301271	353109
12/02/2010	Yes	FARM	Medium	318283	342345
12/02/2010	Yes	INDUSTRY	Low	298343	350951
15/02/2010	Yes	FARM	Medium	317541	345949
16/02/2010	Yes	DOMESTIC	Low	273208	354959

16/02/2010	Yes	WATER SERVICE	Low	311931	346897
16/02/2010	Yes	INDUSTRY	Low	311693	346406
18/02/2010	Yes	DOMESTIC	Low	260283	359097
19/02/2010	Yes	FARM	Low	291429	350241
19/02/2010	Yes	INDUSTRY	Low	309825	364851
21/02/2010	Yes	OTHER	Low	301269	353200
22/02/2010	Yes	DOMESTIC	Medium	294795	347503
23/02/2010	Yes	FARM	Low	269575	372184
23/02/2010	Yes	FARM	Low	278300	354617
24/02/2010	Yes	TRANSPORT	Low	316298	373788
24/02/2010	Yes	INDUSTRY	Low	270845	360577
26/02/2010	Yes	OTHER	Low	281434	376117
01/03/2010	Yes	INDUSTRY	Medium	292237	339604
02/03/2010	Yes	FARM	Low	292718	340160
03/03/2010	Yes	INDUSTRY	Low	313137	346355
03/03/2010	Yes	DOMESTIC	Low	315287	366823
04/03/2010	Yes	WATER SERVICE	Low	319526	341982
04/03/2010	Yes	DOMESTIC	Low	287231	385495
05/03/2010	Yes	WATER SERVICE	Low	303837	345657
08/03/2010	Yes	INDUSTRY	Medium	287624	359249
08/03/2010	Yes	INDUSTRY	Medium	301963	363588
08/03/2010	Yes	OTHER	Low	305816	360607
09/03/2010	Yes	INDUSTRY	Medium	303710	353748
09/03/2010	Yes	OTHER	Low	298705	337703
10/03/2010	Yes	DOMESTIC	Low	292864	379915
10/03/2010	Yes	OTHER	Low	303893	350775
11/03/2010	Yes	FARM	Medium	288709	376678
11/03/2010	Yes	FARM	Medium	283019	346885
11/03/2010	Yes	DOMESTIC	Low	290201	365771
12/03/2010	Yes	WATER SERVICE	Medium	302822	359529

12/03/2010	Yes	FARM	Low	282946	346160
12/03/2010	Yes	INDUSTRY	Low	263723	357477
18/03/2010	Yes	DOMESTIC	Low	261615	353167
19/03/2010	Yes	DOMESTIC	Low	302194	328206
19/03/2010	Yes	OTHER	Low	284582	334066
20/03/2010	Yes	OTHER	Low	287305	369189
20/03/2010	Yes	FARM	Medium	280865	368856
22/03/2010	Yes	OTHER	Low	315418	372978
23/03/2010	Yes	INDUSTRY	Medium	277377	360351
23/03/2010	Yes	DOMESTIC	Low	321786	328536
23/03/2010	Yes	WATER SERVICE	Low	280654	378466
24/03/2010	Yes	INDUSTRY	Low	315779	347340
24/03/2010	Yes	WATER SERVICE	Low	328359	330181
24/03/2010	Yes	FARM	Low	263762	356921
25/03/2010	Yes	OTHER	Low	281256	334860
25/03/2010	Yes	WATER SERVICE	Medium	285206	364774
26/03/2010	Yes	FARM	Low	265451	357805
27/03/2010	Yes	WATER SERVICE	Low	312659	346170
02/04/2010	Yes	INDUSTRY	Low	299323	333337
07/04/2010	Yes	FARM	Low	277384	360362
08/04/2010	Yes	WATER SERVICE	Low	314620	375759
08/04/2010	Yes	WATER SERVICE	Low	312565	346799
09/04/2010	Yes	INDUSTRY	Medium	306940	351218
12/04/2010	Yes	TRANSPORT	Medium	293446	344344
13/04/2010	Yes	INDUSTRY	Low	314908	374603
14/04/2010	Yes	DOMESTIC	Low	291920	347206
15/04/2010	Yes	DOMESTIC	Low	312283	346695
15/04/2010	Yes	INDUSTRY	Medium	278553	342456
19/04/2010	Yes	FARM	Medium	273196	371111
20/04/2010	Yes	INDUSTRY	Medium	287022	372420
20/04/2010	Yes	INDUSTRY	Low	289708	343728
21/04/2010	Yes	OTHER	Low	288093	361414



22/04/2010	Yes	DOMESTIC	Low	314373	376093
22/04/2010	Yes	DOMESTIC	Low	315033	372491
22/04/2010	Yes	INDUSTRY	Medium	306904	358016
28/04/2010	Yes	FARM	Low	279564	334536
29/04/2010	Yes	DOMESTIC	Low	283793	347960
29/04/2010	Yes	DOMESTIC	Low	283744	348043
01/05/2010	Yes	TRANSPORT	Low	310692	361795
05/05/2010	Yes	DOMESTIC	Low	305700	345068
06/05/2010	Yes	INDUSTRY	Low	321007	329290
10/05/2010	Yes	OTHER	Low	303023	359181
17/05/2010	Yes	OTHER	Low	287342	375569
19/05/2010	Yes	FARM	Low	314330	367603
19/05/2010	Yes	INDUSTRY	Low	264571	357645
20/05/2010	Yes	WATER SERVICE	Low	253892	352300
21/05/2010	Yes	INDUSTRY	Low	317801	345569
21/05/2010	Yes	INDUSTRY	Low	314220	367500
24/05/2010	Yes	DOMESTIC	Low	321499	370574
24/05/2010	Yes	DOMESTIC	Low	275560	362684
25/05/2010	Yes	WATER SERVICE	Low	279619	378686
25/05/2010	Yes	WATER SERVICE	Low	279629	378701
28/05/2010	Yes	DOMESTIC	Low	320460	379408
28/05/2010	Yes	INDUSTRY	Low	315326	378082
29/05/2010	Yes	WATER SERVICE	Medium	312669	345739
01/06/2010	Yes	INDUSTRY	Low	282803	379781
01/06/2010	Yes	OTHER	Low	263256	357437
02/06/2010	Yes	DOMESTIC	Low	285791	385305
03/06/2010	Yes	WATER SERVICE	Low	284602	333916
04/06/2010	Yes	DOMESTIC	Medium	284836	355997
08/06/2010	Yes	TRANSPORT	Medium	283956	384527
09/06/2010	Yes	DOMESTIC	Low	312219	346634
11/06/2010	Yes	TRANSPORT	Low	283521	365584
12/06/2010	Yes	WATER SERVICE	Low	303711	356513

16/06/2010	Yes	OTHER	Medium	290611	348139
16/06/2010	Yes	FARM	Medium	288981	349697
17/06/2010	Yes	WATER SERVICE	Medium	284981	334525
23/06/2010	Yes	DOMESTIC	Low	314053	376218
23/06/2010	Yes	FARM	Low	290215	348574
24/06/2010	Yes	FARM	Medium	305906	353445
28/06/2010	Yes	OTHER	Low	302463	357581
29/06/2010	Yes	DOMESTIC	Low	315543	370557
29/06/2010	Yes	DOMESTIC	Low	315551	370564
30/06/2010	Yes	FARM	Low	278975	376259
30/06/2010	Yes	OTHER	Low	279217	360988
30/06/2010	Yes	INDUSTRY	Low	288264	345454
01/07/2010	Yes	DOMESTIC	Low	322097	336213
01/07/2010	Yes	INDUSTRY	Low	319302	378473
05/07/2010	Yes	WATER SERVICE	Low	286176	343420
06/07/2010	Yes	INDUSTRY	Medium	295514	352991
08/07/2010	Yes	WATER SERVICE	Low	281132	363417
08/07/2010	Yes	FARM	Medium	308900	349303
09/07/2010	Yes	WATER SERVICE	Medium	302198	353432
23/07/2010	Yes	DOMESTIC	Low	283204	347957
23/07/2010	Yes	FARM	Medium	280962	366138
26/07/2010	Yes	DOMESTIC	Low	314271	345183
27/07/2010	Yes	OTHER	Medium	262228	356947
30/07/2010	Yes	INDUSTRY	Low	284403	333738
02/08/2010	Yes	WATER SERVICE	Medium	282103	376505
03/08/2010	Yes	OTHER	Medium	301840	357330
06/08/2010	Yes	DOMESTIC	Low	293500	377797
09/08/2010	Yes	FARM	Medium	299579	328507
13/08/2010	Yes	FARM	Low	276860	343051
16/08/2010	Yes	OTHER	Low	285791	344910
18/08/2010	Yes	INDUSTRY	Low	295518	352992
18/08/2010	Yes	WATER SERVICE	Low	306975	357581

19/08/2010	Yes	WATER SERVICE	Low	315047	372399
19/08/2010	Yes	INDUSTRY	Low	279596	350439
19/08/2010	Yes	INDUSTRY	Medium	271382	360464
20/08/2010	Yes	FARM	Low	284041	359901
20/08/2010	Yes	DOMESTIC	Low	279371	361058
23/08/2010	Yes	DOMESTIC	Low	257769	355047
24/08/2010	Yes	FARM	Low	273474	349495
24/08/2010	Yes	INDUSTRY	Low	281081	361699
26/08/2010	Yes	DOMESTIC	Low	303871	334563
01/09/2010	Yes	OTHER	Medium	284797	365397
01/09/2010	Yes	OTHER	Medium	280561	361052
02/09/2010	Yes	INDUSTRY	Low	285787	354419
02/09/2010	Yes	FARM	Medium	280938	366188
03/09/2010	Yes	INDUSTRY	Low	312810	345487
06/09/2010	Yes	OTHER	Low	287621	344061
06/09/2010	Yes	FARM	Medium	274170	353138
07/09/2010	Yes	INDUSTRY	Low	307611	362455
08/09/2010	Yes	INDUSTRY	Low	289854	343247
10/09/2010	Yes	FARM	Low	313503	376581
14/09/2010	Yes	INDUSTRY	Low	312670	346090
17/09/2010	Yes	TRANSPORT	Low	281343	376093
20/09/2010	Yes	INDUSTRY	Low	313388	377309
21/09/2010	Yes	INDUSTRY	Low	290598	349479
22/09/2010	Yes	FARM	Medium	279547	334522
23/09/2010	Yes	FARM	Medium	250199	358317
23/09/2010	Yes	DOMESTIC	Low	312389	366138
24/09/2010	Yes	FARM	Medium	288487	372231
27/09/2010	Yes	TRANSPORT	Low	276354	349073
28/09/2010	Yes	INDUSTRY	Low	289193	337457
28/09/2010	Yes	FARM	Low	303631	345613
29/09/2010	Yes	INDUSTRY	Low	311912	346888
29/09/2010	Yes	INDUSTRY	Low	306829	351718



29/09/2010	Yes	WATER SERVICE	Low	285001	334516
30/09/2010	Yes	OTHER	Low	297845	331153
01/10/2010	Yes	INDUSTRY	Low	314390	346561
05/10/2010	Yes	DOMESTIC	Low	307614	352651
06/10/2010	Yes	OTHER	Medium	280243	377302
11/10/2010	Yes	FARM	Low	293594	356218
11/10/2010	Yes	FARM	Low	320699	343921
12/10/2010	Yes	FARM	Medium	323395	344105
12/10/2010	Yes	INDUSTRY	Low	287210	354278
12/10/2010	Yes	OTHER	Low	287212	354280
12/10/2010	Yes	WATER SERVICE	Low	322792	338432
12/10/2010	Yes	FARM	Medium	320552	345271
19/10/2010	Yes	DOMESTIC	Low	296343	358370
21/10/2010	Yes	FARM	Medium	280794	368865
22/10/2010	Yes	WATER SERVICE	Low	281588	367684
23/10/2010	Yes	OTHER	Low	309480	364920
25/10/2010	Yes	WATER SERVICE	Low	251900	353895
25/10/2010	Yes	DOMESTIC	Low	273048	353480
26/10/2010	Yes	FARM	Low	278616	371100
26/10/2010	Yes	FARM	Low	300469	358508
28/10/2010	Yes	FARM	Low	287832	336385
28/10/2010	Yes	OTHER	Low	279287	335768
01/11/2010	Yes	OTHER	Low	286896	337147
03/11/2010	Yes	INDUSTRY	Low	302577	352496
03/11/2010	Yes	OTHER	Medium	293318	352540
03/11/2010	Yes	FARM	Low	313689	361588
05/11/2010	Yes	OTHER	Low	291920	359190
05/11/2010	Yes	INDUSTRY	Medium	285844	354272
05/11/2010	Yes	INDUSTRY	Medium	292396	359648
06/11/2010	Yes	WATER SERVICE	Low	285203	364687

10/11/2010	Yes	WATER SERVICE	Low	301910	355498
10/11/2010	Yes	DOMESTIC	Low	302667	360931
11/11/2010	Yes	INDUSTRY	Low	288133	334685
12/11/2010	Yes	INDUSTRY	Low	275290	379645
16/11/2010	Yes	DOMESTIC	Low	309009	347502
17/11/2010	Yes	INDUSTRY	Medium	268921	376877
17/11/2010	Yes	FARM	Medium	280413	368361
20/11/2010	Yes	DOMESTIC	Low	300430	357025
22/11/2010	Yes	FARM	Low	275686	381144
24/11/2010	Yes	FARM	Medium	294539	340005
25/11/2010	Yes	FARM	Low	273085	363791
26/11/2010	Yes	FARM	Medium	279524	334554
26/11/2010	Yes	DOMESTIC	Medium	269636	358855
29/11/2010	Yes	DOMESTIC	Low	309041	358197
09/12/2010	Yes	DOMESTIC	Low	280703	362053
10/12/2010	Yes	DOMESTIC	Low	318891	343299
10/12/2010	Yes	FARM	Low	318995	343278
13/12/2010	Yes	FARM	Medium	304468	357332
13/12/2010	Yes	OTHER	Medium	282456	379807
14/12/2010	Yes	FARM	Medium	283223	375052
14/12/2010	Yes	FARM	Medium	321456	345187
14/12/2010	Yes	FARM	Low	320709	343915
29/12/2010	Yes	WATER SERVICE	Low	314870	376622
30/12/2010	Yes	DOMESTIC	Low	278910	363357
04/01/2011	Yes	INDUSTRY	Medium	281639	379371
05/01/2011	Yes	FARM	Medium	320919	343538
06/01/2011	Yes	DOMESTIC	Low	288689	344398
07/01/2011	Yes	INDUSTRY	Medium	282755	379719
07/01/2011	Yes	WATER SERVICE	Medium	321682	329397
07/01/2011	Yes	WATER SERVICE	Low	303492	341830

07/01/2011	Yes	FARM	Low	284473	345202
10/01/2011	Yes	FARM	Medium	299909	329437
10/01/2011	Yes	FARM	Medium	287003	338776
10/01/2011	Yes	WATER SERVICE	Low	314624	376128
11/01/2011	Yes	FARM	Medium	318584	345160
11/01/2011	Yes	FARM	Medium	287037	339427
13/01/2011	Yes	FARM	Low	276714	337785
13/01/2011	Yes	FARM	Medium	316948	343372
15/01/2011	Yes	INDUSTRY	Medium	274693	380167
17/01/2011	Yes	DOMESTIC	Low	283321	362473
17/01/2011	Yes	INDUSTRY	Low	276078	379581
17/01/2011	Yes	DOMESTIC	Low	288735	359234
18/01/2011	Yes	DOMESTIC	Low	260060	359210
19/01/2011	Yes	FARM	Medium	272486	349640
20/01/2011	Yes	FARM	Medium	315965	369308
21/01/2011	Yes	INDUSTRY	Medium	306736	359014
24/01/2011	Yes	WATER SERVICE	Low	321661	329424
25/01/2011	Yes	WATER SERVICE	Low	320905	340689
27/01/2011	Yes	FARM	Medium	268418	351065
28/01/2011	Yes	WATER SERVICE	Low	300177	353701
31/01/2011	Yes	DOMESTIC	Low	286947	339988
01/02/2011	Yes	FARM	Low	280115	334657
02/02/2011	Yes	DOMESTIC	Low	280488	350818
02/02/2011	Yes	FARM	Medium	282235	340543
07/02/2011	Yes	DOMESTIC	Low	269764	351168
07/02/2011	Yes	DOMESTIC	Low	260039	359361
07/02/2011	Yes	TRANSPORT	Low	298233	359332
07/02/2011	Yes	OTHER	Low	299076	359710
09/02/2011	Yes	INDUSTRY	Medium	292084	357790
09/02/2011	Yes	INDUSTRY	Low	281085	339562
10/02/2011	Yes	INDUSTRY	Medium	288368	366097
14/02/2011	Yes	INDUSTRY	Low	286329	353061



15/02/2011	Yes	WATER SERVICE	Low	280322	351713
16/02/2011	Yes	FARM	Medium	318755	345648
16/02/2011	Yes	INDUSTRY	Low	281896	355369
17/02/2011	Yes	INDUSTRY	Low	305703	359992
17/02/2011	Yes	WATER SERVICE	Low	280395	376797
18/02/2011	Yes	INDUSTRY	Medium	279963	349531
18/02/2011	Yes	DOMESTIC	Low	291829	374556
18/02/2011	Yes	FARM	Medium	280008	372784
19/02/2011	Yes	INDUSTRY	Low	274905	379989
22/02/2011	Yes	DOMESTIC	Low	291948	347236
22/02/2011	Yes	WATER SERVICE	Medium	278786	372764
23/02/2011	Yes	WATER SERVICE	Low	281663	376576
24/02/2011	Yes	FARM	Low	320746	369239
24/02/2011	Yes	INDUSTRY	Medium	262821	357510
24/02/2011	Yes	DOMESTIC	Low	304019	358717
24/02/2011	Yes	FARM	Medium	321121	378772
25/02/2011	Yes	OTHER	Low	304903	356836
25/02/2011	Yes	INDUSTRY	Low	321771	329089
28/02/2011	Yes	WATER SERVICE	Low	321683	329399
28/02/2011	Yes	WATER SERVICE	Low	323697	368935
01/03/2011	Yes	DOMESTIC	Low	313269	346184
02/03/2011	Yes	FARM	Low	276910	366716
03/03/2011	Yes	WATER SERVICE	Low	312295	365260
03/03/2011	Yes	DOMESTIC	Low	315040	372492
03/03/2011	Yes	DOMESTIC	Low	309016	358469
04/03/2011	Yes	WATER SERVICE	Low	300013	353531
07/03/2011	Yes	TRANSPORT	Low	289805	367897
07/03/2011	Yes	INDUSTRY	Medium	272628	369023
07/03/2011	Yes	FARM	Medium	301624	347007
11/03/2011	Yes	OTHER	Low	283309	357896
14/03/2011	Yes	WATER SERVICE	Low	312637	346242

15/03/2011	Yes	FARM	Low	276114	366649
17/03/2011	Yes	WATER SERVICE	Low	315176	373034
18/03/2011	Yes	WATER SERVICE	Low	311925	346856
18/03/2011	Yes	INDUSTRY	Low	272127	353205
21/03/2011	Yes	FARM	Medium	303772	353798
21/03/2011	Yes	OTHER	Low	285202	366630
22/03/2011	Yes	WATER SERVICE	Low	315760	376071
22/03/2011	Yes	DOMESTIC	Low	275516	362624
22/03/2011	Yes	FARM	Low	276472	367312
23/03/2011	Yes	INDUSTRY	Low	305238	344406
23/03/2011	Yes	DOMESTIC	Low	305080	344341
24/03/2011	Yes	INDUSTRY	Low	314170	367471
30/03/2011	Yes	DOMESTIC	Low	280726	378603
01/04/2011	Yes	WATER SERVICE	Low	276548	343173
06/04/2011	Yes	WATER SERVICE	Low	321682	329398
06/04/2011	Yes	WATER SERVICE	Low	290800	355900
06/04/2011	Yes	FARM	Low	318049	374137
07/04/2011	Yes	WATER SERVICE	Low	280284	377404
07/04/2011	Yes	FARM	Medium	289800	339200
13/04/2011	Yes	FARM	Medium	281654	382340
14/04/2011	Yes	DOMESTIC	Low	282372	352652
14/04/2011	Yes	FARM	Low	281395	382784
15/04/2011	Yes	FARM	Low	282237	381804
15/04/2011	Yes	FARM	Low	281257	382681
15/04/2011	Yes	INDUSTRY	Low	273935	336904
17/04/2011	Yes	TRANSPORT	Medium	284080	352327
18/04/2011	Yes	WATER SERVICE	Low	298695	345703
19/04/2011	Yes	DOMESTIC	Low	288668	344412
19/04/2011	Yes	INDUSTRY	Low	284070	352320
20/04/2011	Yes	INDUSTRY	Low	306311	350551

20/04/2011	Yes	DOMESTIC	Low	321496	370565
21/04/2011	Yes	OTHER	Medium	302588	346893
21/04/2011	Yes	FARM	Low	286816	375664
27/04/2011	Yes	WATER SERVICE	Low	302654	346783
27/04/2011	Yes	DOMESTIC	Low	321105	336795
28/04/2011	Yes	WATER SERVICE	Low	302263	353257
04/05/2011	Yes	INDUSTRY	Low	293108	374634
05/05/2011	Yes	OTHER	Low	280504	361313
06/05/2011	Yes	WATER SERVICE	Low	281703	376598
09/05/2011	Yes	INDUSTRY	Low	270650	368633
09/05/2011	Yes	WATER SERVICE	Low	282197	376597
11/05/2011	Yes	WATER SERVICE	Low	314340	375856
12/05/2011	Yes	FARM	Low	268985	372545
16/05/2011	Yes	INDUSTRY	Medium	276078	379581
17/05/2011	Yes	FARM	Low	281115	340966
18/05/2011	Yes	DOMESTIC	Low	271351	355105
20/05/2011	Yes	FARM	Medium	308503	354818
20/05/2011	Yes	INDUSTRY	Low	299485	338106
23/05/2011	Yes	FARM	High	277492	358013
24/05/2011	Yes	TRANSPORT	Low	287600	335605
24/05/2011	Yes	DOMESTIC	Low	312354	346236
25/05/2011	Yes	DOMESTIC	Low	290318	368729
25/05/2011	Yes	FARM	Low	264795	363784
27/05/2011	Yes	DOMESTIC	Low	311306	346160
31/05/2011	Yes	FARM	Low	292669	340160
01/06/2011	Yes	WATER SERVICE	Low	281680	376584
02/06/2011	Yes	FARM	Low	291094	358343
02/06/2011	Yes	DOMESTIC	Low	292748	340153
03/06/2011	Yes	INDUSTRY	Low	319965	376630
06/06/2011	Yes	OTHER	Low	309358	365554



06/06/2011	Yes	WATER SERVICE	Low	281004	378132
06/06/2011	Yes	DOMESTIC	Low	287837	336613
07/06/2011	Yes	FARM	Low	281077	353155
08/06/2011	Yes	WATER SERVICE	Low	266514	351809
09/06/2011	Yes	OTHER	Low	312783	345646
09/06/2011	Yes	WATER SERVICE	Low	281627	376592
09/06/2011	Yes	INDUSTRY	Low	273907	336877
10/06/2011	Yes	FARM	Medium	289005	342497
15/06/2011	Yes	WATER SERVICE	Low	314566	376125
15/06/2011	Yes	OTHER	Low	311947	365081
16/06/2011	Yes	INDUSTRY	Low	314548	368638
16/06/2011	Yes	INDUSTRY	Low	305800	359681
16/06/2011	Yes	INDUSTRY	Low	306316	358630
17/06/2011	Yes	FARM	Medium	280221	366571
20/06/2011	Yes	INDUSTRY	Medium	269975	372490
21/06/2011	Yes	FARM	Medium	303324	357259
21/06/2011	Yes	INDUSTRY	Low	303229	357201
21/06/2011	Yes	OTHER	Low	303293	357264
23/06/2011	Yes	FARM	Low	271041	348171
23/06/2011	Yes	INDUSTRY	Low	292072	351880
23/06/2011	Yes	FARM	Low	272247	350279
27/06/2011	Yes	FARM	Low	307981	362361
29/06/2011	Yes	WATER SERVICE	Low	303368	347423
01/07/2011	Yes	TRANSPORT	Low	312599	345763
01/07/2011	Yes	DOMESTIC	Low	278631	372219
04/07/2011	Yes	OTHER	High	299889	354444
04/07/2011	Yes	FARM	Medium	282789	354608
04/07/2011	Yes	FARM	Medium	313692	346495
06/07/2011	Yes	INDUSTRY	Low	244395	348205
06/07/2011	Yes	DOMESTIC	Low	292805	371174
08/07/2011	Yes	INDUSTRY	Low	274925	379116

08/07/2011	Yes	DOMESTIC	Low	301410	335407
11/07/2011	Yes	WATER SERVICE	Medium	305121	347304
14/07/2011	Yes	DOMESTIC	Low	285270	350818
14/07/2011	Yes	DOMESTIC	Low	280311	376695
23/07/2011	Yes	WATER SERVICE	Low	280028	377615
26/07/2011	Yes	FARM	Low	269011	351881
27/07/2011	Yes	OTHER	Low	290640	348194
27/07/2011	Yes	WATER SERVICE	Medium	310864	357104
27/07/2011	Yes	INDUSTRY	Low	303192	356989
28/07/2011	Yes	OTHER	Medium	262424	356809
01/08/2011	Yes	WATER SERVICE	Low	312606	346217
09/08/2011	Yes	INDUSTRY	Low	300169	350866
11/08/2011	Yes	FARM	Low	270011	355558
11/08/2011	Yes	FARM	Low	269870	355549
16/08/2011	Yes	DOMESTIC	Low	279134	367692
17/08/2011	Yes	FARM	Medium	281786	344018
18/08/2011	Yes	FARM	Low	297614	335773
18/08/2011	Yes	INDUSTRY	Low	303070	357169
22/08/2011	Yes	DOMESTIC	Low	280139	375196
22/08/2011	Yes	WATER SERVICE	Medium	312745	345625
22/08/2011	Yes	WATER SERVICE	Low	313806	345094
23/08/2011	Yes	FARM	Medium	278566	356482
26/08/2011	Yes	INDUSTRY	Low	311663	376143
29/08/2011	Yes	DOMESTIC	Low	303638	352316
30/08/2011	Yes	FARM	Medium	320300	372197
30/08/2011	Yes	OTHER	Low	283278	366808
30/08/2011	Yes	DOMESTIC	Low	294851	348821
30/08/2011	Yes	WATER SERVICE	Low	321681	329399
31/08/2011	Yes	FARM	Low	271763	361318
01/09/2011	Yes	DOMESTIC	Low	271183	362798
01/09/2011	Yes	DOMESTIC	Low	271124	362665
02/09/2011	Yes	DOMESTIC	Low	273580	360590

02/09/2011	Yes	FARM	High	327683	335117
05/09/2011	Yes	FARM	Low	320164	327958
06/09/2011	Yes	INDUSTRY	Low	307315	347834
06/09/2011	Yes	WATER SERVICE	Low	284943	334553
07/09/2011	Yes	FARM	Low	305727	359939
08/09/2011	Yes	FARM	Low	271399	361722
13/09/2011	Yes	DOMESTIC	Low	288966	345184
15/09/2011	Yes	FARM	Medium	291173	371626
16/09/2011	Yes	FARM	Low	287268	365385
20/09/2011	Yes	FARM	Low	292883	341766
20/09/2011	Yes	FARM	Medium	281658	346017
21/09/2011	Yes	FARM	Medium	282022	346386
27/09/2011	Yes	OTHER	Low	255781	354188
27/09/2011	Yes	INDUSTRY	Low	276081	379583
27/09/2011	Yes	FARM	Low	298348	327758
30/09/2011	Yes	TRANSPORT	Low	280234	373258
03/10/2011	Yes	OTHER	Low	294759	360390
04/10/2011	Yes	Northern	Low	281406	376151
10/10/2011	Yes	Industry	Medium	278271	356808
13/10/2011	Yes	Farm	Low	280779	336569
18/10/2011	Yes	Industry	Low	270692	368844
19/10/2011	Yes	Domestic	Low	265367	352624
21/10/2011	Yes	Domestic	Low	311324	346163
21/10/2011	Yes	Farm	Medium	326327	339877
25/10/2011	Yes	Industry	Low	277108	360902
26/10/2011	Yes	Industry	Low	286406	354819
26/10/2011	Yes	Industry	Medium	279499	334492
26/10/2011	Yes	Industry	Medium	306255	350515



27/10/2011	Yes	Northern	Low	280434	376768
29/10/2011	Yes	Farm	Low	322858	334754
31/10/2011	Yes	Domestic	Low	270661	354465
31/10/2011	Yes	Farm	Low	282248	381799
31/10/2011	Yes	Northern	Low	281766	376590
01/11/2011	Yes	Industry	Low	279027	366734
02/11/2011	Yes	Farm	Medium	297818	327019
03/11/2011	Yes	Industry	Medium	306318	350526
08/11/2011	Yes	Transport	Low	305796	344042
09/11/2011	Yes	Northern	Low	281694	376571
09/11/2011	Yes	Domestic	Low	289967	339917
09/11/2011	Yes	Farm	Medium	284077	370804
10/11/2011	Yes	Farm	Low	299923	329445
10/11/2011	Yes	Farm	Medium	299923	329446
11/11/2011	Yes	Domestic	Low	257709	355598
15/11/2011	Yes	Farm	Low	294504	377648
15/11/2011	Yes	Domestic	Low	278098	337310
16/11/2011	Yes	Other	Low	300914	354209
16/11/2011	Yes	Farm	Medium	293543	377908
17/11/2011	Yes	Farm	Low	276124	366638
17/11/2011	Yes	Other	Low	279495	362123



17/11/2011	Yes	Farm	Low	290693	375003
18/11/2011	Yes	Industry	Low	275264	379842
21/11/2011	Yes	Domestic	Low	321168	336813
22/11/2011	Yes	Farm	Low	280532	339189
22/11/2011	Yes	Industry	Low	286338	353051
22/11/2011	Yes	Farm	Medium	290777	372525
23/11/2011	Yes	Transport	Low	278357	335616
24/11/2011	Yes	Other	Low	285717	354597
24/11/2011	Yes	Industry	Medium	275265	379844
26/11/2011	Yes	Domestic	Low	315298	372856
26/11/2011	Yes	Industry	Medium	275268	379843
28/11/2011	Yes	Northern	Low	266407	351661
28/11/2011	Yes	Farm	Low	268303	380994
28/11/2011	Yes	Domestic	Low	284483	365867
28/11/2011	Yes	Farm	Medium	281431	366443
02/12/2011	Yes	Farm	Low	256619	351717
02/12/2011	Yes	Other	Low	301160	354460
05/12/2011	Yes	Farm	Medium	295299	334816
06/12/2011	Yes	Farm	Medium	280983	353085
07/12/2011	Yes	Farm	Low	256323	351303

07/12/2011	Yes	Industry	Medium	297474	339995
07/12/2011	Yes	Farm	Low	299262	345243
07/12/2011	Yes	Farm	Low	295475	334882
07/12/2011	Yes	Farm	Low	303302	357159
08/12/2011	Yes	Transport	Low	305827	351007
09/12/2011	Yes	Domestic	Medium	278695	362856
14/12/2011	Yes	Farm	Low	293910	351051
14/12/2011	Yes	Farm	Low	293514	350509
14/12/2011	Yes	Industry	Medium	292884	350690
14/12/2011	Yes	Domestic	Low	279362	351434
14/12/2011	Yes	Farm	Low	297828	327231
14/12/2011	Yes	Other	Low	281556	367738
15/12/2011	Yes	Farm	Medium	293173	350687
16/12/2011	Yes	Farm	Low	301138	342617
16/12/2011	Yes	Domestic	Low	279245	351513
19/12/2011	Yes	Domestic	Low	313268	370640
20/12/2011	Yes	Farm	Low	280899	345227
22/12/2011	Yes	Farm	Low	287685	331871



13 November 2012

Fay Lagan  
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9<sup>TH</sup> Floor  
The Clarence West Building  
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BT2 7GP

Job No:	
AECOM - Belfast	
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Date:	16 NOV 2012
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BT3 9ED  
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FAX: 028 9055 5500

24 hour gas escape  
number 0800 002 001\*

\*Calls may be recorded  
and monitored



**Our Ref** – TQ/11/12/FL/121

**Plant Information for Work – Tyrone to Cavan Interconnector – 400KV**

In response to your notice dated 13 November 2012, we can confirm that we have no mains or services in the area of the proposed works and do not intend to build there in the near future.

Should you require any further information, please do not hesitate to contact Thomas Quinn on 028 9055 5819.

Yours Faithfully



Beatrice Mahoney  
Customer Services

**Martin, Joseph**

---

**From:** Lagan, Fay  
**Sent:** 10 December 2012 13:27  
**To:** Martin, Joseph  
**Subject:** FW: 1.NOT PROTECTIVELY MARKED-All Networks:: Proposed Tyrone to Cavan Interconnector - 400KV Overhead Line and Substation

---

**From:** [JILL.MARTIN@psni.pnn.police.uk](mailto:JILL.MARTIN@psni.pnn.police.uk) [<mailto:JILL.MARTIN@psni.pnn.police.uk>] **On Behalf Of** [Pauline.Shields@psni.pnn.police.uk](mailto:Pauline.Shields@psni.pnn.police.uk)  
**Sent:** 07 December 2012 13:36  
**To:** TC Interconnector  
**Cc:** [Pauline.Shields@psni.pnn.police.uk](mailto:Pauline.Shields@psni.pnn.police.uk)  
**Subject:** 1.NOT PROTECTIVELY MARKED-All Networks:: Proposed Tyrone to Cavan Interconnector - 400KV Overhead Line and Substation

Your ref: 60032220  
Our ref: TRIM 22904/12

Dear Mr Lagan

I refer to your letter dated 9 November 2012 re the above matter. I can confirm at this stage we have no additional comments to make.

**Pauline Shields**  
**Chief Superintendent**  
**District Commander F District**  
**Tel 0845 600 8000 Ext 40677**



\*\*\*\*\*  
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Public Health  
Agency

Ms Fay Lagan  
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12-22 Linenhall Street  
Belfast  
BT2 8BS

Tel: 028 9032 1313

Website: [www.publichealth.hscni.net](http://www.publichealth.hscni.net)

06 December 2012

Our Ref: 67/291/1

Your Ref: 60032220

Dear Ms Lagan

**PROPOSED TYRONE TO CAVAN INTERCONNECTOR – 400 KV  
OVERHEAD LINE AND SUBSTATION**

I refer to your recent letter regarding the above and would confirm that we have nothing further to add to our previous correspondence.

Yours sincerely

Dr Eddie Rooney  
Chief Executive

Email: [eddie.rooney@hscni.net](mailto:eddie.rooney@hscni.net)

Job No:	AECOM - Belfast
Reviewed by:	
Date:	10 DEC 2012
Actioned by:	Jm.
Date:	11.12.2012
Copy to:	
Filing Location:	N/S INTERCONNECTOR FILE





## Martin, Joseph

---

**From:** Lagan, Fay  
**Sent:** 10 December 2012 13:27  
**To:** Sutton, Brian; Loughran, Cormac; Martin, Joseph  
**Subject:** FW: RSPB additional comments 2012 post previous response March 2010 (O/2009/0792/F)  
**Attachments:** RSPB AECOM 2012.pdf

---

**From:** Peoples, Lynne [<mailto:Lynne.Peoples@rspb.org.uk>]  
**Sent:** 07 December 2012 10:36  
**To:** TC Interconnector  
**Subject:** RSPB additional comments 2012 post previous response March 2010 (O/2009/0792/F)

Dear Sir/Madam

Please find attached the RSPB additional comments to those submitted in our previous response dated March 2010.

We did not comment on the additional environmental information submitted to the original Environmental Statement (ES) throughout 2011 however, we will provide final comments to the consolidated addendums when submitted in 2013.

Please do not hesitate to contact RSPB with any related questions.

Kind regards

*Lynne*

Lynne Peoples  
Assistant Conservation Officer

Tel: 028 9049 1547  
Tel: 028 9069 9098 (direct)



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[www.rspb.org.uk/steppingup](http://www.rspb.org.uk/steppingup)

RSPB, Northern Ireland Headquarters, Belvoir Park Forest, Belfast, BT8 7QT

[www.rspb.org.uk/northernireland](http://www.rspb.org.uk/northernireland)

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Belvoir Park Forest  
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BT8 7QT

RSPB NORTHERN IRELAND

Mr Fay Lagan  
AECOM  
9<sup>th</sup> Floor  
The Clarence West Building  
2 Clarence Street West  
Belfast  
BT2 7GP

07 December 2012

Dear Mr Lagan

**RE: proposed Tyrone to Cavan Interconnector – 400kV overhead line and substation (O/2009/0792/F)**

The RSPB is a conservation charity with over 1 million members across the United Kingdom (UK). In Northern Ireland (NI) we have over 13,000 members and we continue to grow as a charitable organisation for nature conservation.

As such we thank you for your letter dated 09 November 2012, requesting additional comments to those already submitted to the Department in response to the original Environmental Statement (ES) for the Tyrone/Cavan interconnector (O/2009/0792/F). A copy of that response has been attached; mitigation from sections 10.6 and 19.7 of the original ES was deemed appropriate and other measures were also recommended.

Prior to submission of that response, we queried both the level of survey relative to the scale of the proposal and the presentation of the results in the ES. The additional ornithological surveys<sup>1</sup> discussed by telephone on 30 November 2012 are welcomed as these add to the previous baseline and any further conducted (2011/2012) will do same. However, in 2010 we had recommended barn owl surveys for grid squares H81 49, H81 50, H82 49, H82 50, H83 49 and H83 50 as based upon internal data records from along the proposed route corridor. This recommendation was due to both the high conservation status of breeding barn owl in Ireland<sup>2</sup> and the level of protection awarded as a Schedule 1 listed species under The Wildlife (NI) Order 1985 (as amended)<sup>3</sup>. We have noted that barn owl specific surveys have not been conducted<sup>4</sup> and we therefore recommend that responsibility for appropriate surveys at a pre-works stage, in suitable nesting habitat such as at Artisooley Wood<sup>5</sup>, is placed with the ecological clerk of works<sup>6</sup>.

<sup>1</sup> Tyrone Cavan Interconnector Environmental Statement Additional Information Volume 2 Appendix 7.3 & 7.4

<sup>2</sup> RSPB & BirdWatch Ireland (2008): Birds of Conservation Concern in Ireland 2008-2013

<sup>3</sup> <http://www.legislation.gov.uk/nia/2011/15/schedule/1>

<sup>4</sup> Tyrone Cavan Interconnector Environmental Statement Additional Information Volume 2 Section 7.2.8

<sup>5</sup> Tyrone Cavan Interconnector Environmental Statement Additional Information Volume 2 Section 7.2.1

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Although the preferred route corridor avoids formally designated sites for nature conservation<sup>7</sup>, collision risk<sup>8</sup> remains a potentially serious impact to birds. Power lines are of particular concern for less manoeuvrable birds such as whooper swans, which are an Annex 1 listed species<sup>9</sup>. In 2006, the Irish Whooper Swan Study Group (IWSSG) highlighted the River Blackwater north of Caledon, Moy/Charlemont (H873 559) and the lakes south of Keady<sup>10</sup> as areas requiring focused whooper swan research and surveys. The additional species specific surveys are welcomed<sup>11</sup> as these add to the previous baseline and any further conducted (2011/2012) will do same.

As stated in our previous response, we continue to recommend consideration of mitigation to avoid the potential for collision risk particularly with whooper swans. This is due to both the River Blackwater being used as a flight path by whooper swans associated with the Lough Neagh Ramsar (R)<sup>12</sup>, Special Protection Area (SPA)<sup>13</sup> and Area of Special Scientific Interest (ASSI)<sup>14</sup> and the higher potential for swans to cross the proposed route along some sections dependant upon availability of feeding/roosting sites. Without prejudice, mitigation for consideration should include phases of underground cabling, the use of bird deflectors (similar to those used south of Lough Foyle) and the development of post-construction collision monitoring plans.

In addition to the above, planning policy statements<sup>15</sup> (PPSs) should remain as considerations within the decision making process. The Department's approach to sustainable development as detailed in PPS1 General Principles and the policy objectives of PPS4 Economic Development and PPS2 Planning and Nature Conservation are relevant considerations.

As discussed on 30 November 2012 we may have additional information to submit post 07 December 2012 however, we will await the submission of the consolidated ES addendums in 2013 before commenting in full.

In the interim, if you have any related queries, please contact the Assistant Conservation Officer.

Yours sincerely,

*L Peoples*

Assistant Conservation Officer  
Conservation Team (Planning)  
RSPB NI

<sup>6</sup> Tyrone Cavan Interconnector Environmental Statement Additional Information Volume 2 Section 7.5.3

<sup>7</sup> Drumcarn, Crossbane Lough and Straghans Lough Area of Special Scientific Interest (ASSI) are the nearest formally designated sites [http://www.doeni.gov.uk/niea/protected\\_areas\\_home/new\\_assi\\_landing\\_page/county\\_armagh-2.htm](http://www.doeni.gov.uk/niea/protected_areas_home/new_assi_landing_page/county_armagh-2.htm)

<sup>8</sup> Drewitt *et al* (2008): Collision effects of wind power generators and other obstacles on birds. Natural England.

<sup>9</sup> Directive 2009/147/EC of the European Parliament and of the Council of 30 November 2009 on the conservation of wild birds (codified version)

<sup>10</sup> Clay Lake, Gentle Owens Lake, Tullynawood Lake, Darkley Reservoir and Aughangurgan Lough Sites of Local Nature Conservation Importance (SLNCIs)

<sup>11</sup> Tyrone Cavan Interconnector Environmental Statement Additional Information Volume 2 Appendix 7.4

<sup>12</sup> [http://www.doeni.gov.uk/niea/protected\\_areas\\_home/ramsar/ramsar\\_loughneagh.htm](http://www.doeni.gov.uk/niea/protected_areas_home/ramsar/ramsar_loughneagh.htm)

<sup>13</sup> [http://www.doeni.gov.uk/niea/protected\\_areas\\_home/spec\\_protect/spec\\_protect\\_loughneagh.htm](http://www.doeni.gov.uk/niea/protected_areas_home/spec_protect/spec_protect_loughneagh.htm)

<sup>14</sup> [http://www.doeni.gov.uk/niea/protected\\_areas\\_home/new\\_assi\\_landing\\_page/county\\_antrim-2/lough\\_neagh\\_assi.htm](http://www.doeni.gov.uk/niea/protected_areas_home/new_assi_landing_page/county_antrim-2/lough_neagh_assi.htm)

<sup>15</sup> [http://www.planningni.gov.uk/index/policy/policy\\_publications/planning\\_statements.htm](http://www.planningni.gov.uk/index/policy/policy_publications/planning_statements.htm)

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**ANNEX A: Copy of RSPB communication to the Department regarding original Environmental Statement (ES) submission**

**From:** Peoples, Lynne

**Sent:** 26 March 2010 16:42

**To:** 'alan.moore@doeni.gov.uk'

**Cc:** Ferry, Claire

**Subject:** RSPB response to the NIE interconnector Tyrone-Cavan Environmental Statement (O/2009/0792/F)

Hello Alan,

Thank you for sending the Environmental Statement (ES) for the Tyrone-Cavan interconnector (O/2009/0792/F) to the RSPB for comment.

We note that designated sites and non-designated sites of nature conservation concern which were highlighted in the scoping stage have been avoided. We also note that mitigation put forward in section 10.6 and 19.7 of the ES are all relevant to the findings of the ES and would go some way to reduce the environmental impacts of the proposal.

Visual interpretation of ornithological survey information in the ecology section of the ES (section 10) would have been very useful as an additional aid to the written material and as responses are expected within a four week period.

We have placed our comments on the content of the ES below and ask for these to be considered as planning conditions, should approval be granted.

**Barn owls**

We are aware of unconfirmed barn owl sightings along parts of the route and a concentration of these lie just south of Benburb. Barn owls are of a high conservation concern in Ireland and are also a Schedule 1 species as listed under the Wildlife (NI) Order 1985, protected by special penalty. They nest in mature trees such as beech or oak and are a nocturnal species.

We therefore recommend that any parts of H8149, H8150, H8249, H8250, H8349 and H8350 in which the route passes, are checked for barn owl nest sites under the relevant license. We also recommend any semi-mature to mature trees to be pollarded or removed along the length of the route from the sub-station site are checked for nest sites prior to any works.

If nest sites are located then appropriate mitigation should be applied and approved by the Department.

Any nest sites should be reported to the RSPB as we are currently leading on a barn owl survey across Northern Ireland along with the Ulster Wildlife Trust (UWT).

**Bird breeding season**

The timing of works should be clearly defined within the mitigation with specific dates (01 March to 31 August). An ecological clerk of works should oversee all proposed works during February and September prior to any works, to protect early and late nesters.

**Bird deflectors**

These should be placed at all the potential whooper swan crossing points along the route as highlighted at the ES stage.

**Post construction Monitoring**

Should the proposal go ahead we recommend that the post construction collision monitoring is set as a planning condition. Any areas found to be causing casualties should be flagged and additional bird deflectors placed along these parts within a specific time period.

END

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April 2013

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Registered in N. Ireland NI 26041

Cover Graphics - MW Design

Print Management - Banner Managed Communication

Printed by - Ream Limited, Belfast