

**Section 10**

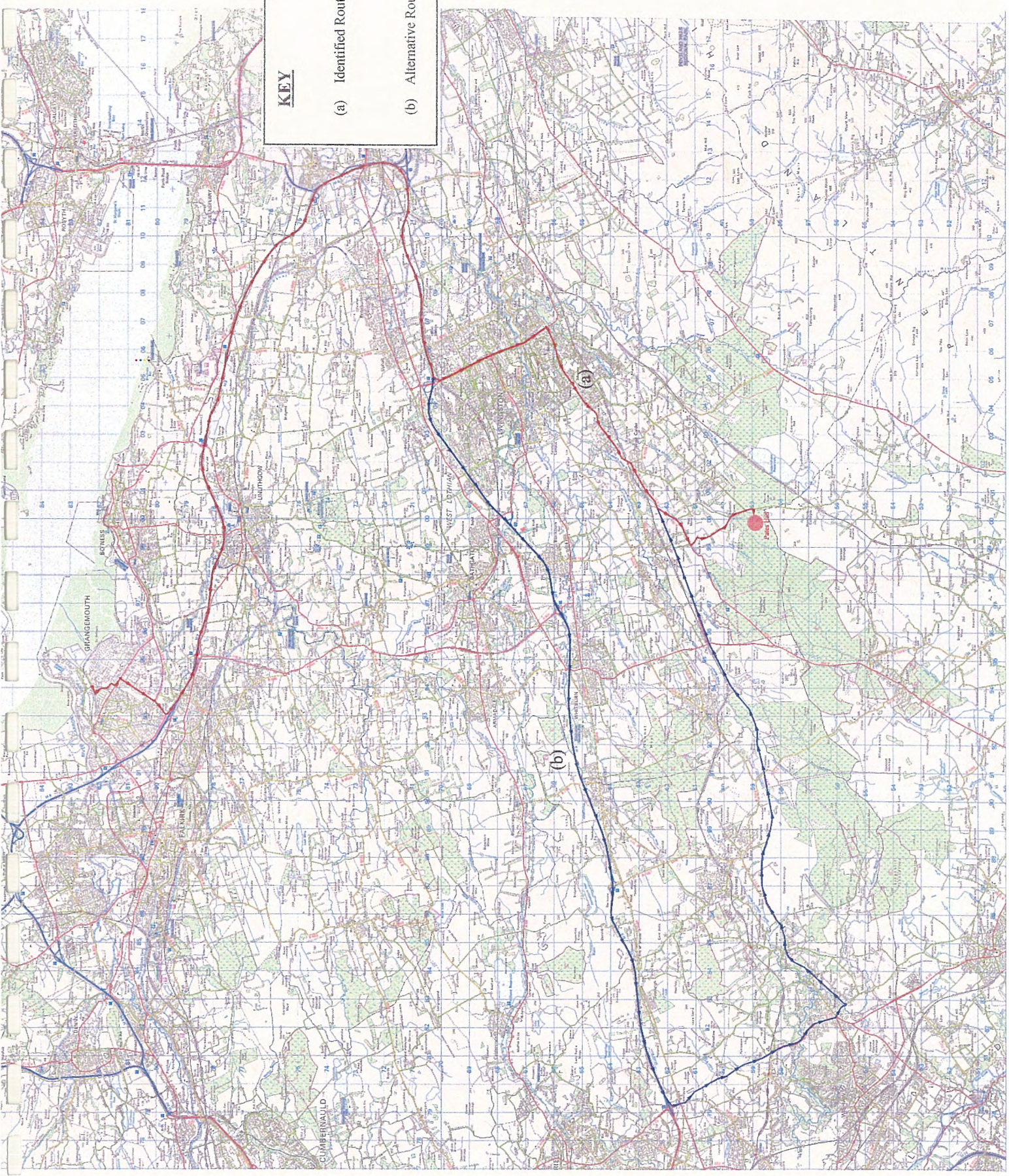
**Infrastructure, Transport & Safety**

**Figure 10.1**

**Pates Hill Wind Farm  
Access Route for Abnormal Loads**

**KEY**

- (a) Identified Route
- (b) Alternative Route



**Figure 10.2**

**Pates Hill Wind Farm  
Traffic Survey A704**

**Longford Farm Entrance (GR 98230 60590)**

5 Day Averages

East Lane A							East Lane TOTALS	Days
Month	Motorbike	Car & Van	Car & Trailer	LGV & HGV	HGV	BUS		
JAN2004	1	744	3	76	89	0	913	10
FEB2004	2	802	4	87	99	0	994	20
MAR2004	3	807	5	91	111	0	1017	23
APR2004	4	871	6	86	116	0	1083	22
MAY2004	7	873	6	94	112	0	1092	21
JUN2004	6	879	5	122	103	0	1115	22
JUL2004	9	885	7	81	96	0	1078	22
AUG2004	7	913	6	87	93	0	1106	22
SEP2004	7	871	8	83	90	0	1059	22
OCT2004	4	924	5	76	82	0	1091	21
NOV2004	2	934	4	77	77	0	1094	22
DEC2004	1	904	3	66	60	0	1034	23
JAN2005	1	794	3	72	59	0	929	21
FEB2005	1	812	3	73	66	0	955	20
MAR2005	3	861	4	67	68	0	1003	23
APR2005	3	828	6	69	69	0	975	4

AVG 1034

West Lane A							West Lane TOTALS	Days
Month	Motorbike	Car & Van	Car & Trailer	LGV & HGV	HGV	BUS		
JAN2004	1	759	3	100	113	0	976	10
FEB2004	2	830	3	105	119	0	1059	20
MAR2004	2	839	4	106	140	0	1091	23
APR2004	5	892	6	106	143	0	1152	22
MAY2004	6	899	7	116	133	0	1161	21
JUN2004	6	905	7	139	121	0	1178	22
JUL2004	7	905	8	103	108	0	1131	22
AUG2004	6	938	6	105	109	0	1164	22
SEP2004	7	898	7	98	106	0	1116	22
OCT2004	4	966	5	100	98	0	1173	21
NOV2004	2	947	4	96	92	0	1141	22
DEC2004	1	932	3	80	74	0	1090	23
JAN2005	2	799	3	88	76	0	968	21
FEB2005	1	827	3	86	80	0	997	20
MAR2005	2	871	4	78	81	0	1036	23
APR2005	3	831	6	82	84	0	1006	4

AVG 1090

**On average:**

1034 vehicles/day travelling East  
1090 vehicles/day travelling West

2124 vehicles/day including 370 LGV & HGV

**Figure 10.3**

**Pates Hill Wind Farm**  
 Traffic Survey, Baads Mill-Cobbinshaw Road

**Pates Hill Traffic Survey**

	Car		Van		LGV		HGV		Motorbike		TOTALS	Avg/hr
	West	East	West	East	West	East	West	East	West	East		
Mon 25th April											0	
Tue 26th April											0	
Wed 27th April											0	
Thursday 28th April	28	3	2	3	2	1	0	0	0	0	39	
Friday 6th May	26	4	3	0	0	1	0	0	0	0	34	
<b>TOTAL 8:00-9:00</b>	<b>54</b>	<b>7</b>	<b>5</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>73</b>	<b>37</b>
Mon 25th April	10	8	0	0	0	1	0	1	0	0	20	
Tue 26th April	18	7	1	3	1	1	1	1	0	0	33	
Wed 27th April	9	10	4	2	2	0	1	1	0	0	29	
Thursday 28th April	21	9	4	1	2	0	1	2	0	0	40	
Friday 6th May	22	12	1	2	1	0	0	1	0	0	39	
<b>TOTAL 9:00-10:00</b>	<b>80</b>	<b>46</b>	<b>10</b>	<b>8</b>	<b>6</b>	<b>2</b>	<b>3</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>161</b>	<b>31</b>
Mon 25th April	10	10	0	2	2	0	0	0	0	0	24	
Tue 26th April	7	7	0	4	2	0	1	1	0	0	22	
Wed 27th April	12	6	2	1	0	0	0	0	0	0	21	
Thursday 28th April	10	12	1	1	0	1	2	0	0	0	27	
Friday 6th May	14	14	1	1	4	2	1	0	0	0	37	
<b>TOTAL 10:00-11:00</b>	<b>53</b>	<b>49</b>	<b>4</b>	<b>9</b>	<b>8</b>	<b>3</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>131</b>	<b>24</b>
Mon 25th April	14	15	3	3	0	1	1	0	0	0	37	
Tue 26th April	3	9	1	0	0	0	0	2	0	0	15	
Wed 27th April	3	4	3	2	0	1	0	0	0	0	13	
Thursday 28th April	14	17	0	0	0	0	1	0	0	1	33	
Friday 6th May	11	9	3	2	1	2	0	0	0	0	28	
<b>TOTAL 11:00-12:00</b>	<b>45</b>	<b>54</b>	<b>10</b>	<b>7</b>	<b>1</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>126</b>	<b>25</b>
Mon 25th April	9	10	2	0	0	1	1	0	0	0	23	
Tue 26th April	10	12	0	1	0	1	0	1	0	0	25	
Wed 27th April	10	8	2	3	2	1	0	0	0	0	26	
Thursday 28th April	10	11	1	2	0	1	0	0	0	0	25	
Friday 6th May	12	17	0	1	0	0	0	0	0	0	30	
<b>TOTAL 12:00-13:00</b>	<b>51</b>	<b>58</b>	<b>5</b>	<b>7</b>	<b>2</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>129</b>	<b>25</b>
Mon 25th April											0	
Tuesday 10th May	15	15	3	4	0	1	1	0	0	0	39	
Wed 4th May	16	16	1	0	0	1	1	0	0	0	35	
Thursday 28th April	10	11	2	3	1	0	1	1	0	0	29	
<b>TOTAL 13:00-14:00</b>	<b>41</b>	<b>42</b>	<b>6</b>	<b>7</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>103</b>	<b>32</b>
Mon 25th April											0	
Tuesday 10th May	13	9	2	2	3	1	1	0	0	0	31	
Wed 4th May	16	16	2	4	1	1	0	0	0	0	40	
Thursday 28th April	4	11	2	2	2	2	1	2	0	0	26	
<b>TOTAL 14:00-15:00</b>	<b>33</b>	<b>36</b>	<b>6</b>	<b>8</b>	<b>6</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>97</b>	<b>33</b>
Mon 25th April											0	
Tuesday 10th May	20	16	1	4	4	3	0	1	0	0	49	
Wed 4th May	18	18	5	3	2	1	0	0	0	0	47	
Thursday 28th April	4	13	0	1	1	1	0	0	0	0	20	
<b>TOTAL 15:00-16:00</b>	<b>42</b>	<b>47</b>	<b>6</b>	<b>8</b>	<b>7</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>116</b>	<b>34</b>
Mon 25th April											0	
Tuesday 10th May	13	12	1	0	0	0	0	1	0	1	28	
Wed 4th May	9	17	2	4	1	1	0	0	0	1	35	
Thursday 28th April	9	14	0	3	0	1	0	2	1	0	30	
<b>TOTAL 16:00-17:00</b>	<b>31</b>	<b>43</b>	<b>3</b>	<b>7</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>93</b>	<b>33</b>
<b>TOTALS</b>	<b>430</b>	<b>382</b>	<b>55</b>	<b>64</b>	<b>34</b>	<b>28</b>	<b>15</b>	<b>17</b>	<b>1</b>	<b>3</b>	<b>1029</b>	<b>271</b> average per day
<b>Car</b>	<b>812</b>		<b>119</b>		<b>62</b>		<b>32</b>		<b>4</b>		<b>1029</b>	<b>30</b> average per hour
	<b>79%</b>		<b>12%</b>		<b>6%</b>		<b>3%</b>		<b>0%</b>		<b>100%</b>	

## **Telecoms & Radar Scoping Responses**

- 1. Cable & Wireless**
- 2. OFCOM**
- 3. Defence Estates**
- 4. Joint Radio Company**
- 5. OFCOM**
- 6. OFCOM**
- 7. Orange**
- 8. BBC**
- 9. National Air Traffic Systems**
- 10. Civil Aviation Authority**

**Donald Young**

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**From:** "Joyce Hartley (TPS)" <joyceh@tpsplanning.com>  
**To:** "Donald Young" <nlnl@kinbuck.fsnet.co.uk>; "Douglas Hendry" <d.hendry@ed.sac.ac.uk>  
**Cc:** "Roger Rankin" <tps@globalnet.co.uk>  
**Sent:** 19 January 2005 09:35  
**Subject:** Fw: Proposed wind farm development at Pate's Hill, West Calder, West Lothian, Scotland. C&W Ref LOS/017/05

For info.  
Joyce

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

**From:** >Access Evaluation  
**To:** Joyce Hartley (TPS)  
**Sent:** Wednesday, January 19, 2005 9:29 AM  
**Subject:** RE: Proposed wind farm development at Pate's Hill, West Calder, West Lothian, Scotland. C&W Ref LOS/017/05

Joyce,

Apologies for delay.

C&W have no objection to this development.

Regards,  
John Blake

Principal Engineer  
Frequency Spectrum Planning  
Access Evaluation  
Ext Phone 01344 713525  
Int Phone C60-3525

Cable & Wireless,  
Waterside House,  
Bracknell,  
RG12 1XL.

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

**From:** Joyce Hartley (TPS) [mailto:joyceh@tpsplanning.com]  
**Sent:** 28 October 2004 13:51  
**To:** Blake, John  
**Subject:** Proposed wind farm development at Pate's Hill, West Calder, West Lothian, Scotland

Dear John

Further to your telephone discussion, please find attached location and layout plan of the proposed 7 turbine development. (Grid Ref 995 585)

We would be most grateful to receive any comments.

Many thanks.

Best wishes  
Joyce Hartley

Joyce Hartley  
Associate  
TPS

19/01/2005



Spectrum Management Services Ltd.



Canvin Court 2  
Somerton Business  
Somerton  
Somerset  
TA11 6SB

Tel: 01458 273 789  
Fax: 01458 273 883

Ms Joyce Hartley  
Associate  
Town Planning Services  
CBC House  
24 Canning Street  
Edinburgh EH3 8EG

Our Ref: HRSP/WF304  
e-mail: rod.page@css.gb.com

28<sup>th</sup> February 2005

Dear Ms Hartley

**Proposed Wind Farm at Pates Hill, West Calder, West Lothian NS 995 576**

I am responding to your e-mail of 19<sup>th</sup> August 2004 to Gerry Blaevoet of Ofcom, regarding this proposed Wind Farm. I am sorry that it has taken us so long to reply, but we have received a large number applications for Wind Farms in the past year.

We have examined this application in relation to UHF Scanning Telemetry communications operated by our Client in that region. I am pleased to advise you that there is no objection to your proposal in this instance.

Thank you for consulting us on this occasion and we would be pleased if you would do the same if you are involved with any similar proposals in the UK.

Yours sincerely,

H R S Page  
Technical Manager

cc: Gerry Blaevoet Ofcom



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**Safeguarding**

Kingston Road, Sutton Coldfield, B75 7RL  
Telephone:

Direct Line: 0121 311  
DCSA DFTS: (9) 4421  
Facsimile: 0121 311 2218  
E-mail: modwindssystem@de.mod.uk  
Internet Site: www.defence-estates.mod.uk



NEW LIVES NEW LANDSCAPES  
c/o SAC environmental  
Pentland Building, Bush Estate  
Penicuik  
Midlothian  
EH26 0PH  
Scotland

Your Reference:  
NEW LIVES NEW LANDSCAPES  
Our Reference:  
3560  
Date:  
21 February 2005

Dear Mr Campbell

**SAFEGUARDING WINDFARMS**

**DE REFERENCE NUMBER: 3560**

**LOCATION: Pates Hill**

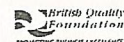
1. We have no concerns to the construction of 7 wind turbines at Pates Hill
2. Should the development go ahead we would like to receive the following data:
  - a. Date of commencement of the construction,
  - b. Date of completion of the construction,
  - c. The height above ground level of the tallest structure,
  - d. The maximum extension height of any construction equipment,
  - e. The position of the masts in latitude and longitude,
  - f. If the site will be lit,
  - g. Any changes to the scheme as re-evaluation may be required.

This information will be promulgated to military aircrew who will endeavour to avoid direct overflight of the site. Construction workers, particularly those working at height, should be aware that essential military low flying training may be conducted in the vicinity.

3. Please contact a member of the Safeguarding Windfarms team on 0121 311 3847 / 2025 / 2274 if you wish to discuss this further.

Yours sincerely

Safeguarding Windfarms  
Chris Evans



INVESTORS IN PEOPLE



Donald Young

---

**From:** "Joyce Hartley (TPS)" <joyceh@tpsplanning.com>  
**To:** "Roger Rankin TPS" <rogerr@tpsplanning.com>; "Donald Young" <nlnl@kinbuck.fsnet.co.uk>;  
"Douglas Hendry" <d.hendry@ed.sac.ac.uk>  
**Sent:** 17 November 2004 16:30  
**Subject:** Fw: proposed wind farm at Pates Hill, West Calder, West Lothian, Scotland

For info.  
Joyce

## ----- Original Message -----

**From:** "David Priestley" <david.priestley@jrc.co.uk>  
**To:** "Hartley, Joyce" <joyceh@tpsplanning.com>  
**Cc:** "Blaevoet, Gerry" <Gerard.Blaevoet@ofcom.org.uk>  
**Sent:** Wednesday, November 17, 2004 3:33 PM  
**Subject:** proposed wind farm at Pates Hill, West Calder, West Lothian, Scotland

> Dear Joyce

>

> You will be pleased to hear that there are no JRC member 450MHz point to  
> multi-point radio scanning telemetry and telecontrol links within the  
> vicinity of your proposed wind farm at Pates Hill, West Calder, West  
> Lothian, Scotland.

>

> David Priestley

>

> Joint Radio Company Ltd.,  
> Suite 108,  
> The Blackfriars Foundry,  
> 156, Blackfriars Road,  
> London,  
> SE1 8EN,  
> United Kingdom.

>

> Tel: +44 (0)20 7953 7015

> Fax: +44 (0)20 7953 8538

> Email: [david.priestley@jrc.co.uk](mailto:david.priestley@jrc.co.uk)

> www: <http://www.jrc.co.uk>

>

>

>

18/11/2004

**Donald Young**

---

**From:** "Joyce Hartley (TPS)" <joyceh@tpsplanning.com>  
**To:** "Donald Young" <nlnl@kinbuck.fsnet.co.uk>; "Douglas Hendry" <d.hendry@ed.sac.ac.uk>  
**Sent:** 25 November 2004 14:39  
**Subject:** Fw: Pates Hill (995 585), West Calder, West Lothian = Proposed wind farm (NS95)

Donald/Douglas

for info.  
Joyce

**From:** Peter Madry  
**To:** joyceh@tpsplanning.com  
**Sent:** Thursday, November 25, 2004 2:26 PM  
**Subject:** RE: Pates Hill (995 585), West Calder, West Lothian = Proposed wind farm (NS95)

Dear Ms Hartley,

I'm sorry for the delay in responding to you.

This department's concern is to protect the continuity of domestic TV reception. Ofcom's response in respect of fixed radio links etc. should be considered separately. Compared to fixed wireless links however, the effects of wind turbines on broadcast reception are very difficult to predict with any degree of accuracy. TV signals are subject not only to simple line-of-sight shielding from structures such as windfarms, but also to a variety of signal-reflection effects which vary with the position of the viewer relative to the transmitter and turbine. The type and quality of viewers aerials can affect the severity of any disruption. In addition, as many areas of the UK are able to receive TV signals from more than one transmitter site, we often do not know which transmitter viewers are actually watching. An accurate assessment of problems can only be achieved by carrying out a 'before and after' survey of local reception conditions.

More detailed information on the effects of windfarms on TV reception is available in the BBC / Ofcom publication 'The Impact of Large Buildings and Structures on Terrestrial Television', which is available at <http://www.bbc.co.uk/reception/factsheets/docs/buildings.pdf>.

In cases where TV reception is marred by a windfarm, it is often possible to restore reception for affected viewers. Measures can range in complexity (and cost): For example, it may be possible to improve viewer's existing receiving aerial installations. Digital terrestrial television (Freeview) reception is generally resilient in the presence of many of the signal degradations which can affect analogue television, and may offer an alternative if the affected viewers are in a Freeview coverage area. Viewers who suffer disruption generally look to the developer to fund reception restoration operations, and we would encourage the planning authority to enter into a binding agreement with the developer (e.g. under Section 75 of the Town & Country Planning Act), to ensure this. There is no mechanism for the broadcasters to offer direct assistance in cases of disruption due to new structures.

The UK is divided on a geographical basis between Ofcom and the BBC for the purposes of television service planning. This site falls into an area of Ofcom responsibility. Unfortunately we are not able to offer an analysis of potential TV reception problems until windfarm proposals are at the formal planning application stage. Each site requires a detailed manual desktop investigation, and the very large numbers of enquiries currently being received mean that we are unable to offer an analysis prior to planning. However, in order to aid you I have looked briefly at the site, taking into account the proximity of local communities that might give rise to concern during a more detailed study. Please bear in mind these comments are an indicative 'first impressions' only and we would only be able to provide more definitive comments during the formal planning stage.

Experience has shown that reception problems are not generally experienced at distances greater than 5km from a turbine, though this is not a firm rule. In addition, homes very close to the turbines (within about 500m) may

25/11/2004

suffer disruption, irrespective of the direction to the transmitter. Viewers in the vicinity of the windfarm are served by TV signals from the Black Hill (NS828647) and Craiggally (NT233872) transmitters. Although there do not appear to be any large communities where reception is likely to be disrupted in the vicinity of the windfarm, there are a number of scattered dwellings where it is possible that problems may be caused.

**:: Peter Madry**

Senior Associate Technical Advisor  
020 7783 4325  
peter.madry@ofcom.org.uk

**:: Ofcom**

Riverside House  
2a Southwark Bridge Road  
London SE1 9HA

020 7981 3000  
[www.ofcom.org.uk](http://www.ofcom.org.uk)

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

**From:** Joyce Hartley (TPS) [<mailto:joyceh@tpsplanning.com>]

**Sent:** 28 October 2004 13:26

**To:** Peter Madry

**Subject:** Fw: Pates Hill (995 585), West Calder, West Lothian = Proposed wind farm

Dear Peter

I refer to the email below advising that Tom Birch from Ofcom, has forwarded to you details of the above proposal. We would be most grateful to receive any comments and look forward to receiving your response. Please do not hesitate to get in touch if you require any further information.

Best wishes  
Joyce Hartley

Joyce Hartley  
Associate  
TPS  
CBC House  
24 Canning Street  
Edinburgh EH3 8EG  
Tel: 0131 272 2775 Fax:0131 272 2800  
email: [joyceh@tpsplanning.com](mailto:joyceh@tpsplanning.com)

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

**From:** Wind Farms

**To:** [joyceh@tpsplanning.com](mailto:joyceh@tpsplanning.com)

**Sent:** Tuesday, October 26, 2004 4:31 PM

**Subject:** Pates Hill (995 585)

25/11/2004

**WINDFARM CO-ORDINATION REQUESTS FOR  
PATES HILL (995 585)**

Dear Joyce,

Ofcom has found no civil fixed links that may be affected by your proposals.

This response to your co-ordination request is only in respect of microwave fixed links and does not include broadcast transmissions or scanning telemetry links that may be affected by your proposals. A copy of your co-ordination request has been sent to:

- CSS Spectrum Management Services Ltd. David Tripp 01458 273 789 [david.tripp@css.gb.com](mailto:david.tripp@css.gb.com) (for Scanning Telemetry)
- Joint Radio Company (JRC). David Priestley 020 7953 7015 [david.priestley@jrc.co.uk](mailto:david.priestley@jrc.co.uk) (for Scanning Telemetry)
- Peter Madry 020 7783 4325 (Ofcom) (for TV broadcast transmissions) [peter.madry@ofcom.org.uk](mailto:peter.madry@ofcom.org.uk)
- Wind Farms, BBC, Spectrum Planning Group, BBC R&D, Kingswood Warren, Tadworth, Surrey. KT20 6NP (TV broadcast transmissions) [reception@bbc.co.uk](mailto:reception@bbc.co.uk)

Please also be advised that this response is also only in respect of fixed microwave links managed by the Ofcom, in addition you are obliged to do further checks of your proposals with the CAA, NATS, the MOD, Cable and Wireless, T-Mobile, Orange and BT.

Some contacts are listed below:

BT  
 Cable and Wireless  
 Orange  
 T-Mobile  
 MOD Estates Safeguarding Division

Mike Redwin 020 7843 5079  
 John Blake 01344 7135245  
 Robin Whitfield 01454 624 902  
 Peter Smith 01707 314 524  
 Mark Pickett 0121 311 3847

Regards

pp Tom Birch

Steve Alexander

**Steven Alexander**  
 Executive Engineer  
 Fixed & Satellite Link Co-ordination  
 020 7981 3089  
[steven.alexander@ofcom.org.uk](mailto:steven.alexander@ofcom.org.uk)

**Ofcom**  
 Riverside House  
 2a Southwark Bridge Road  
 London SE1 9HA  
 020 7981 3000  
[www.ofcom.org.uk](http://www.ofcom.org.uk)

\*\*\*\*\*

Ofcom is the independent regulator and competition authority for the UK communications industries, with responsibilities across television, radio, telecommunications and wireless communications services.

For further details and to register for automatic updates from Ofcom on key publications and other developments, please visit [www.ofcom.org.uk](http://www.ofcom.org.uk)

This email and any files transmitted with it are confidential and intended solely for the use of the

25/11/2004

**Donald Young**

**From:** "Joyce Hartley" <joyceh@blueyonder.co.uk>  
**To:** "Roger Rankin" <tps@globalnet.co.uk>; "Donald Young" <nlnl@kinbuck.fsnet.co.uk>  
**Sent:** 08 April 2005 10:24  
**Subject:** Fw: Proposed wind farm development at Pate's Hill, West Calder, West Lothian, Scotland

Doanld/Roger - this has just come in.  
 Joyce

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

**From:** WHITFIELD, Robin  
**To:** Joyce Hartley (TPS)  
**Sent:** Wednesday, April 06, 2005 4:54 PM  
**Subject:** RE: Proposed wind farm development at Pate's Hill, West Calder, West Lothian, Scotland

Joyce,

I'm pleased to inform you that this proposed development does not pose a threat to the operation of Orange PCS microwave links and we are happy for the development to proceed.

Best Regards,

Robin Whitfield

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

**From:** Joyce Hartley (TPS) [mailto:joyceh@tpsplanning.com]  
**Sent:** 28 October 2004 13:52  
**To:** WHITFIELD, Robin  
**Subject:** Fw: Proposed wind farm development at Pate's Hill, West Calder, West Lothian, Scotland

Dear Robin

Further to your telephone discussion, please find attached location and layout plan of the proposed 7 turbine development. (Grid Ref 995 585)

We would be most grateful to receive any comments.

Many thanks.

Best wishes  
 Joyce Hartley

Joyce Hartley  
 Associate  
 TPS  
 CBC House  
 24 Canning Street  
 Edinburgh EH3 8EG  
 Tel: 0131 272 2775 Fax:0131 272 2800  
 email: [joyceh@tpsplanning.com](mailto:joyceh@tpsplanning.com)

\*\*\*\*\*

Important.

08/04/2005



From: Rachel Townsend  
Telephone (Direct): 01737 839638  
Facsimile (Direct): 01737 839698  
E-Mail: Rachel.Townsend@rd.bbc.co.uk

Research & Development

Our Ref: 2119/RMT/0904

7<sup>th</sup> September 2004

Ms J Hartley  
TPS  
CBC House  
24 Canning Street  
Edinburgh  
EH3 8EG

Dear Ms Hartley

**Re: Proposed wind farm site at Pate's Hill (NS95)**

Thank you for your letter, inviting us to comment on potential interference to terrestrial analogue and digital domestic television reception and BBC radio services.

Terrestrial television services for domestic reception within the UK are the joint responsibility of the BBC and Ofcom\*. The situation with regard to programme distribution links and other RF communication links is slightly different. The transmission network within the UK is provided and operated on behalf of the broadcasters by Crown Castle UK and ntl. The BBC and Ofcom do however take a keen interest and, along with both the transmission providers, may wish to comment on possible disruption to such links.

Where a new development causes reception problems, we look to the developer to rectify these, and planning authorities sometimes require a legally binding commitment under Section 75 of the Town and Country Planning Act (Scotland) 1997, in order to enforce this at the outset.

Regarding the mechanisms that create television reception difficulties and the means of assessing and alleviating them, the BBC, the ITC and the Radiocommunications Agency (RA)\* have jointly produced a technical note titled 'The impact of large buildings and structures on terrestrial television'. This document is aimed at town planners and developers, and can be found on the BBC website at:

<http://www.bbc.co.uk/reception/factsheets/docs/buildings.pdf>

In the event of reception problems, there may be straightforward potential solutions such as improving the receiving aerials or providing the affected households with an alternative source of suitable television signals - off air from a different transmitter, from an existing cable system, or in certain circumstances from a satellite. An appropriate alternative source of television might be either analogue or digital. Given the various issues surrounding the identification and use of any alternative source, particularly the differences between the



\* The ITC and the Radiocommunications Agency (RA)  
are now part of the integrated regulator Ofcom



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adoption of an analogue or a digital approach, the developer may require the services of a competent domestic television dealer to investigate, advise on, and implement the most appropriate solution. Should you need to employ the services of a television dealer, we recommend that you use one registered with the Confederation of Aerial Industries. They may be contacted via their website at [www.cai.org.uk](http://www.cai.org.uk) or by post at Confederation of Aerial Industries Ltd, Fulton House Business Centre, Fulton Road, Wembley Park, Middlesex HA9 0TF.

If there are no available alternative sources of television, it might be necessary to investigate the provision of some sort of bespoke distribution system for the affected households – such as a local cable system fed from a point where satisfactory reception can be achieved.

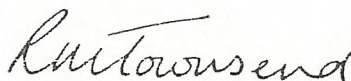
Analogue television has already been rolled out to 99.4% of the UK population, and the broadcasters' programme for building new relay transmitters concluded several years ago. For digital television we are still in the process of exploring ways of extending the primary coverage of the service. It is no longer appropriate for broadcasters to consider building a new relay station specifically to overcome problems created by a wind farm development, however the possibility that one of the above approaches offers a practical way forward has been enhanced by the various sources of digital television now present in most areas.

Moving onto your specific case, the proposed wind farm at **Pate's Hill (NS95)** is located within an area assigned to the Ofcom, and they should reply to you with the results of their assessment. The BBC reserves the right to comment in future should the Ofcom or ntl, not wish to do so.

The wind farm development is not expected to have a detrimental effect upon national or local BBC Radio reception.

Contact addresses for the Ofcom, ntl and Crown Castle UK are shown below. Please let me know if you require any clarification of the above or any further information.

Yours sincerely,



Rachel Townsend  
Spectrum Planning Group

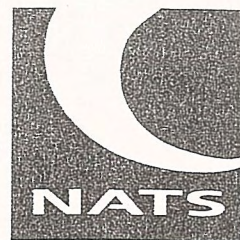
Copies to:

Tim Shergold, ntl, Crawley Court, Winchester, Hampshire SO21 2QA.

Peter Madry, Ofcom, Riverside House, 2a Southwark Bridge Road, London SE1 9HA

Jack Fitzsimmons, Crown Castle UK, PO Box 98, Warwick CV34 6TN

**CNS SYSTEMS – Navigation, Spectrum & Surveillance**  
**National Air Traffic Services (En Route) Plc**  
Spectrum House, Gatwick, West Sussex, RH6 0LG  
Direct Tel: +44 (0)1293 576618 Direct Fax: +44 (0)1293 576431  
Switchboard: +44 (0)1293 576000 E-Mail: natty.fernandes@nats.co.uk  
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Your ref:  
Our ref: W(F)6587

29 March 2005

Mr Douglas Hendry  
SAC  
Bush Estate  
Penicuik  
Midlothian  
EH26 0PH

Dear Sir/Madam

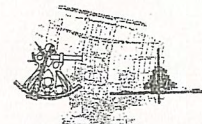
**PROPOSED WIND FARM AT PATE'S HILL, WEST CALDER, WEST LOTHIAN – SCOPING CONSULTATION**

I refer to your letter in which you asked us to give a preliminary indication of whether your proposed development was likely to conflict with our safeguarding criteria.

The proposed development has been examined from a technical safeguarding aspect. It is our current view based upon:

- (a) the information made available to us in respect of your proposed development by:
  - (i) letter for a wind farm at Pate's Hill;
- (b) the current safeguarding and planning guidelines; and
- (c) other issues that impact our assessment of your proposal (including but not limited to regulatory restraints on us),

that your proposed development **does not conflict** with our current safeguarding criteria and based upon the information referred to above and the current circumstances we would be unlikely to object to your proposed development as at today's date.

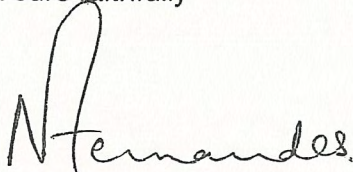




We recommend that you resubmit your proposal to us prior to undertaking a formal planning application so that we can reassess your proposal in light of the then current circumstances and information. Given the time it takes to progress planning matters, it is likely that the detail of your proposal may change and that the general understanding of safeguarding matters may also develop all of which will impact on our assessment of your proposed development.

This letter provides you with a non-binding indication of our position based on the information available and circumstances prevailing as at the date of this letter. Our view is given without prejudice to our right to object at a future date to any formal planning application in respect of your proposed development. We accept no liability for any costs, expenses or damages of any nature whatsoever incurred by you due to your reliance on this letter.

Yours faithfully

A handwritten signature in black ink, appearing to read 'N. Fernandes', written in a cursive style.

Mrs Natty Fernandes  
**Technical Administrator**  
**Navigation, Spectrum & Surveillance**



**Directorate of Airspace Policy**

Jim Campbell  
New Lives New Landscapes  
C/o SAC Environmental  
Pentland Building  
Bush Estate  
Penicuik  
EH26 0PH

3rd November 2004

Reference: 8AP/51/06/19

Dear Mr Campbell,

**Wind Turbine Proposal – Pates Hill**

Thank you for notification of the title proposal. This Directorate has the following observation(s):

This development might affect the following aeronautical site(s), the licensee/operator of which should be consulted:

Edinburgh Airport:

Mr Colin Cragg  
BAA Plc  
Group Airport Planning  
First Point  
Buckingham Gate  
London Gatwick Airport  
West Sussex  
RH6 ONT

Telephone 01293 507746 / 503879

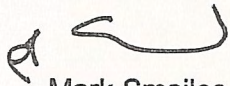
It is in your interests to contact the persons or organisations identified above, as recommended in the Wind Energy and Aviation Interim Guidelines. By so doing you should ensure that there are no unexpected aviation objections when you reach the stage of applying for planning permission. You are also advised that the appropriate Local Planning Authority should be able to provide information relating to safeguarding requirements of local aerodromes.

Details of your proposal have been copied to National Air Traffic Services who will pass any comments directly to you.

Developers should be aware that there might be a need to install aviation obstruction lighting to some or all of the associated wind turbines should this windfarm development be progressed

The number of pre-planning enquiries associated with windfarm developments has been significant. It is possible that the proliferation of wind turbines in any particular area might potentially result in difficulties for aviation that a single development would not have generated. It is, therefore, not necessarily the case that, because a generic area was not objected to by the aviation industry, future, similarly located potential developments would receive the same positive response.

Yours sincerely,



Mark Smailes  
ORA5

BAA plc  
Safeguarding Team  
First Point, Buckingham Gate  
Gatwick Airport  
West Sussex RH6 0NT

Telephone: (01293) 504854  
Fax: (01293) 507750



Jim Campbell  
c/o SAC Environmental  
Pentland Building  
Bush Estate  
Penicuik  
ED26 0PH

8 April 2005

Dear Jim

**Re: Pates Hill Windfarm**

**Our Ref: QUE0305**

Thank you for the individual turbine details that you supplied last year. Please accept my apologies for the delay in responding to you.

The site lies 21.6Km South West of the Edinburgh Airport Aerodrome Reference Point. I can confirm that the turbines will not have an impact on the navigational aids for Edinburgh Airport, however should the number of, height or locations of the turbines change, a further assessment may be necessary.

Please be advised that the advice given is informal and without prejudice to the consideration of any planning application which may be referred to us pursuant to Planning Circular 02/2003 in consultation under the safeguarding procedure. It cannot be assumed that any response to consultation under Planning Circular 02/2003 will necessarily coincide with the informal advice now given. We will not have any liability to you or third parties who may follow this advice .

It should also be made clear that provision of this advice does not constitute support for the development nor an opinion that the development is acceptable under local planning policy.

Yours sincerely

A handwritten signature in black ink that reads "L. Duggan".

Lesley Duggan (Mrs)  
For and on behalf of Edinburgh Airport Limited