

Government Survey into Noise from Wind Turbines
(REF: NANR233)

Name of wind farm	Causeymire, Caithness (L)
How many complaints were received about this wind farm?	See attachments
How many complainants contacted you about this wind farm?	2
In what year was each complaint made? (if more than one complaint please list the years)	2004 - 2005
<p>Please provide a detailed description of the noise complaint(s): (eg, time of day, wind conditions, description of noise, any other factors that might have contributed to the complaint)</p> <p>THIS INFORMATION IS VERY USEFUL SO PLEASE USE AS MUCH SPACE AS NECESSARY. IF THERE WAS MORE THAN ONE COMPLAINT AND THE COMPLAINTS HAD DIFFERENT CAUSES PLEASE COMPLETE A SEPARATE TABLE FOR THE DIFFERENT TYPES OF COMPLAINT.</p>	See attachments
<p>Do any of the following terms describe the noise that was complained about at this wind farm site? (Please delete Yes or No as applies)</p>	

Swish	YES / NO	Throbbing	YES / NO	'train that never gets there'	YES / NO
Swoosh	YES / NO	Thudding	YES / NO		
Ghostly Noises	YES / NO	Thumping	YES / NO	'like motion sickness'	YES / NO
	YES / NO	Pulsating	YES / NO		
Wooh	YES / NO	Whooshing	YES / NO	Whistling	YES / NO
Wooh	YES / NO		YES / NO		
Beating	YES / NO	Distant Helicopter	YES / NO	Rhythmical Beat	YES / NO
Lapping	YES / NO	Rumbling	YES / NO	Other (please list):	YES / NO
Grinding	YES / NO				See below
Did you visit the home of the complainant?		YES/NO			
Did you visit the wind farm site?		YES/NO			
Did you hear the noise that was being complained about?		YES/NO			
Briefly describe the investigation that took place.		See attachments			
Was the wind farm judged to be causing a noise nuisance?		YES/NO			
What action, if any, was taken?		See attachments			
This project is about Amplitude Modulation of Aerodynamic Noise (AM) which can be described as 'Wind turbine blade noise which is modulated at blade passage frequency (typically once per second) with a sharper attack and a more clearly defined character than usual blade swoosh. It is sometimes described as being like a distant train or distant piling operations'. Does the noise from this wind farm conform to this description?		<p style="text-align: center;">YES / NO / -DON'T KNOW</p> <p style="text-align: center;">During the past few weeks we have had Southerly winds. This has resulted in the area being enveloped within a blanket low frequency droning noise, somewhat akin to an aircraft engine. The noise is audible surrounding my property and in certain wind and weather conditions is clearly audible within certain rooms of the house.</p>			

Wind Farm: Causeymire, Caithness

Date	Intrusiveness** (1-5)	Notes
11/9/04	5	Were wakened at 6.30am by noise Phoned wind farm/turbine representative – They turned off turbines one by one to test.
11/9/04	5	Difficulty getting to sleep with noise
13/9/04	2	8 a.m. noticed distinct drone when leaving home
29/9/04	4	5pm wind coming from ? No noise 8 p.m. + all night - noise
30/9/04	5	Wind much louder inside house than outside
1/10/04	4	2pm came back to house. – xxxx monitored house at 5pm in 1 + 3
2/10/04	4	Visit from wind farm/turbine representative – measured pm. Followed by sleepless night despite some turbines off.
3/10/04	5	Very loud 7am. wind farm/turbine representative measured am. Visit from representative 5pm. He fine tuned turbines but still noisy p.m. Rained at 7pm – noisier, phoned representative back turned off 5 turbines
11/10/04	4 -5	At 5pm noticed closest turbines off small amount of noise. 8pm very loud background rumble + loud tone. Phoned xxxxx to monitor. Starry, cold and frosty
12/10/04	3	At 7pm noticeable (2-3)
13/10/04	3	5 a.m.
19/10/04	1	xxxxxxx visited at 4pm he said he could hear it inside house – high wind at this time so not very loud.
19/10/04	3	From 7pm onwards approx noise got louder
20/10/04	4	Woken at 2.30am could hear them clearly

**** How intrusive is the noise? Use a scale of 1 to 5. 1 = intrusive; 5 = most intrusive.**

Causeymire, Caithness			
Date	Intrusiveness	Location	Notes
	01-May		
04-Aug-04	3	Garden, Drive	
05-Aug-04	3	Garden, Drive	
06-Aug-04	3	Garden, Drive	
07-Aug-04	3	Garden, Drive	
08-Aug-04	3	Garden, Drive	
09-Aug-04	4	Garden, Drive, House	Audible in Bedroom and Lounge, Window Shut
10-Aug-04	4	Garden, Drive, House	Audible in Bedroom and Lounge, Window Shut
11-Aug-04	3	Garden, Drive	
19-Aug-04	2	Garden, Drive	
22-Aug-04	2	Garden, Drive	
23-Aug-04	4	Garden, Drive	Individual too scared to go in garden alone due to noise
24-Aug-04	4	Garden, Drive, House	Overnight very noisy in bedroom
03-Sep-04	3	Garden, Drive	
06-Sep-04	3	Garden, Drive	
11-Sep-04	3	Garden, Drive	
12-Sep-04	3	Garden, Drive	
11-Sep-04	3	Garden, Drive	
16-Sep	3	Garden, Drive	
17-Sep-04	3	Garden, Drive	
18-Sep-04	3	Garden, Drive	
19-Sep-04	3	Garden, Drive	
30-Sep-04	3	Garden, Drive	Not all wind turbines operational
01-Oct-04	3	Garden, Drive	Most wind turbines off
24-Oct-04	4	Garden, Drive, House	Very Noisy in bedroom/ lounge over night
25-Oct-04	3	Garden, Drive	
26-Oct-04	3	Garden, Drive	
27-Oct-04	3	Garden, Drive	
28-Oct-04	3	Garden, Drive	
29-Oct-04	3	Garden, Drive	