

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

Name of wind farm		Deeping St Nicholas (X)			
How many complaints were received about this wind farm?		2			
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)		2006 2007			
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)		The complainant that contacted us last year experiences a problem with a whooshing noise when the wind is in a direction. It is noticeable during the day and through the night. In addition the complainants have described a low frequency hum that is evident in the house. This appears to be independent of the wind direction. They live in the nearest turbine. The background noise level is very low (typically 20-25 dB(A) during the evening and nighttime.)			
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.		The complainant who contacted us this year only appears to experience a low frequency noise within their house. This appears to be independent of wind direction but is only present when the turbines are running. It has been described as a low frequency hum similar to that of refrigeration motors when heard from a distance.			
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)					
Swish	YES	Throbbing	YES	'train that never gets there'	NO
Swoosh	YES	Thudding	NO		
Ghostly Noises	NO	Thumping	NO	'like motion sickness'	NO
Wooh Wooh	YES	Pulsating	YES	Whistling	NO
Beating	YES	Whooshing	YES	Rhythmical Beat	NO
Lapping	NO	Distant Helicopter	YES	Other	YES

Grinding	YES	Rumbling	YES	(please list):	Hum
Did you visit the home of the complainant?		YES			
Did you visit the wind farm site?		YES			
Did you hear the noise that was being complained about?		YES			
Briefly describe the investigation that took place.		<p>Noise monitoring has been carried out at the site of the 2006 complaint. The officer has witnessed the whooshing and pulsating noises described but has been unable to witness the low frequency hum. In addition Hayes McKenzie have carried out substantial noise monitoring at the complainants property.</p> <p>Officers have installed noise recording equipment at the home of the complainant of the 2007 complaint.</p>			
Was the wind farm judged to be causing a noise nuisance?		YES / NO			
What action, if any, was taken?		Both the complaints are part of an ongoing investigation and as yet we have not taken formal action. We have been in discussion with the wind farm operator and the complainant is providing us and the operator with an ongoing diary of the noise problems they are experiencing.			
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?		YES			