

Graeme Thorpe

28 MAR 2013

From: James Russell
Sent: 27 March 2013 12:41
To: Graeme Thorpe
Cc: Karen Thompson
Subject: EH Comments re Wind turbine planning application - Lower Gazegill Rimington - 3/2012/0954

FOR THE

ATTN:

Importance: High

Attachments: 3-2012-0954 Lower Gazegill windturbine.doc

Dear Graeme,

As requested please find my attached report.

Please note recommendation for further background noise level monitoring as previous daytime monitoring indicate very low levels can be expected in this locality



3-2012-0954 Lower
Gazegill win...

James

James Russell
Head of Environmental Health Services
Tel: 01200 414466
james.russell@ribblevalley.gov.uk

Karen, Please record as Planning Consultation on Flare and include my response Cheers James

Memorandum

To:	Planning	From:	Environmental Health
Officer:	Graeme Thorpe	Officer:	James Russell
Reference:	3/2012/0954	Extension No:	4466
Date:	27 th March 2013		

Planning Application: 3/2012/0954
Location: Lower Gazegill, Cross Hill Lane, Rimington
Development: Erection of single 20Kw wind turbine

Having reviewed the above application I can make the following comments;

The noise produced by the turbine (sound power level) ranges from 87.5 at wind speed of 8 ms **to potentially 97dB at 10 ms**, this represents a level of 35 to 45dB at the nearest residential property not owned by the applicant. This value may result in the guideline noise levels within BS 8233, and set by the World Health Organisation not being met at a wind speed of 10 ms.

This is a quiet rural location and no background noise levels of the proposed area have been provided to show compliance with national wind turbine noise standards and it is therefore uncertain what the impact of the turbine will be to the nearby residential properties. **I recommend that the applicant be required to provide a further Noise Assessment Report of measured background noise levels at different wind speeds measured near the nearby residential property boundaries.**

In the event of this report confirming the turbine meets relevant guidance, given recent planning inspectorate decisions, it is suggested that the following conditions should be attached to any permission granted. It should also be noted that nearby residential properties may hear and be adversely affected by the wind turbine depending on the background noise levels in the area;

- The noise emissions from the wind turbines shall not exceed a sound pressure level LAeq,T of 35dB at the curtilage of any dwelling lawfully existing at the time of this consent at wind speeds up to and including 8 ms⁻¹ at rotor centre height. Any measurement shall be made at a height of 1.2m and at a minimum distance of 3.5m from any façade or acoustically reflective surface."
- A report shall be submitted every three years to the LPA for approval confirming that the above condition has been complied with"
- Following notification from the Local Planning Authority (LPA) that a justified complaint has been received, the wind turbine operator shall, at their own expense, employ a suitably competent and qualified person to

measure and assess, by a method to be approved in writing by the LPA, whether noise from the turbine meets the specified level.

- The assessment shall be commenced within 21 days of the notification, or such longer time as approved by the LPA.
- A copy of the assessment report, together with all recorded data and audio files obtained as part of the assessment, shall be provided to the LPA (in electronic form) within 60 days of the notification.
- The operation of the turbine shall cease if the specified level is confirmed as being exceeded.
- The measurement time period shall be based on BWEA blade length calculation (para 3.4(1) $t=4 \times D$ seconds).
Where t = measurement time period in seconds (subject to a minimum period of 10 seconds) D = rotor diameter in metres"

Regards James