

Andrew Durran

From: Donna Bolton
Sent: Tuesday, 16 September 2014 12:11 PM
To: Toby Philp (Toby.Philp@planning.nsw.gov.au)
Cc: Karen Jones (karen.jones@planning.nsw.gov.au); Andrew Durran; Andrew Wilson; Neville Osborne (Neville.Osborne@planning.nsw.gov.au)
Subject: FW: Airservices Australia - Statement of Commitment Yass Valley Wind Farm
Attachments: Page 90 YASS Preferred Project & Submissions Report 16 Sep 14.pdf; Eurocontrol Guidelines.pdf

Follow Up Flag: Follow up
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Hi Toby,

We have now had a reply from Airservices which confirms that they would like a detailed study done on the finalised design in line with the Eurocontrol Guidelines. Attached are the Eurocontrol Guidelines and a revised Statement of Commitment 28 to specifically reference these guidelines.

Please note that to perform a detailed engineering assessment, as per page 25 of the Guidelines the following inputs are required:

- Wind turbine model and manufacturer
- Number of blades
- Rotation speed (Rpm) nominal and maximum
- Tower design (tubular/lattice)
- Tower base diameter (m)
- Tower top diameter (m)
- Nacelle Dimensions (width x length x height in m)
- Rotor blade material including lightning conductor

The other key input is the final location for each wind turbine. The final location and the turbine characteristics listed above will only be known after financial close of the project when the wind turbine model is selected and detailed engineering design is undertaken.

We anticipate a planning condition in line with the above.

Kind regards
Donna

DONNA BOLTON
Senior Project Manager

EPURON Pty Ltd, Level 11, 75 Miller Street, North Sydney NSW 2060
P: 02 8456 7405 | M: 0405 535325 | F: 02 9922 6645 | e: d.bolton@epuron.com.au

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From: Tomlinson, Richard [<mailto:richard.tomlinson@airservicesaustralia.com>]
Sent: Friday, 12 September 2014 3:26 PM
To: Donna Bolton
Cc: Aiezza, Tony; Airport Developments
Subject: RE: Airservices Australia - Statement of Commitment Yass Valley Wind Farm

Hi Donna,

After discussions with Airservices' Office of Legal Counsel (OLC) and a final meeting with them yesterday, we have been informed that we are unable to provide you with any form of conditional assessment for the proposed Yass Valley wind farm.

While appreciating the "catch 22" position that you find yourself in, and noting the effort you have gone to in preparing your proposed method of works as detailed within your Scoping document, our final position is that we can only provide comment on a finalised design, which will be part of a detailed Aviation Impact Statement. We would expect the analysis in the Aviation Impact Statement to follow the guidelines outlined in the EUROCONTROL Guidelines on How to Assess the Potential Impact of Wind Turbines on Surveillance Sensors.

Kind regards,

Richard Tomlinson

Senior Advisor - Aviation Relations

Corporate and Industry Affairs | Airport Relations

t **+61 2 6268 4719** | m +61 2 423 503 767

SoC	Impact	Objective	Mitigation Tasks	Project Phase	Auditing
28	Potential impacts on air traffic control radars	Avoid operational impacts	Following detailed design of each project stage to determine the final placement of wind turbines, and prior to construction, a detailed radar impact assessment in accordance with the EUROCONTROL Guidelines June 2010 on 'How to Assess the Potential Impact of Wind Turbines on Surveillance Sensors'. would be undertaken, in consultation with Airservices Australia, to assess any material impacts to effective radar coverage resulting from that stage of the wind farm. The assessment would outline mitigation options and be provided to Airservices Australia for their review and consultation with respect to mitigation options. Mitigation would be implemented at the cost of the proponent, and may include removal of wind turbines or other measures. Where mitigation options require modification to the design or operation of the radar this would only be undertaken with the consent of Airservices Australia. Any mitigation required is to be to the satisfaction of Airservices Australia.	Pre-construction	DoP

8.1.6 Communication

SoC	Impact	Objective	Mitigation tasks	Project phase	Auditing
29	Deterioration of signal strength	No deterioration of signal strength	The Proponent would locate wind turbines to avoid existing microwave link paths that cross each precinct, or liaise with the owners of such links to relocate services to avoid potential impacts from turbines.	Pre-construction	
30	Deterioration of signal strength	No deterioration of signal strength	The Proponent would undertake a detailed investigation to develop appropriate mitigation measures associated with potential impacts to navigational aids from each of the precincts or construction stages. The Proponent would liaise with Airservices Australia to ensure all mitigation measures are acceptable.	Pre-construction and operation	
31	Deterioration of signal strength	No deterioration of signal strength	<p>Ensure adequate television reception is maintained for neighbouring residences as follows:</p> <ul style="list-style-type: none"> ▶ Undertake a monitoring program of houses within 5km of the wind farm site or construction stage, if requested by the owners, to determine a baseline of reception against which to review any loss in television signal strength. ▶ In the event that after construction television interference (TVI) is experienced by existing receivers within 5km of the site or construction stage, investigate the source and nature of the interference. ▶ Where investigations determine that the interference is caused by the wind farm, establish appropriate mitigation measures at each of the affected receivers in consultation and agreement with the landowners. <p>Specific mitigation measures may include:</p>	Pre-construction and Operation	

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EUROCONTROL Guidelines

**EUROCONTROL Guidelines on
How to Assess the Potential Impact of
Wind Turbines on Surveillance Sensors**