Australian Government
Department of Defence
Estate and Infrastructure Group

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ID-EP-DLP&R/OUT/2016/AF27438442

Department of Planning and Environment
GPO Box 39
SYDNEY NSW 2001

ATTN Diana Charteris

RE: SSD 6686 DEVELOPMENT APPLICATION ENVIRONMENTAL IMPACT STATEMENT (EIS), BANGO WOND FARM.

Thank you for referring the Development Application (DA) for the Bango Wind Farm to the Department of Defence (Defence) for comment. Defence understands that the wind farm project will consist of a total of up to 122 wind turbines with associated infrastructure located approximately 20km north of Yass and 7km south-east of Borrowa, NSW.

Defence has seen an earlier iteration of this proposal and has previously provided comments to the proponent. For your information this advice is at Attachment A. Defence is pleased that its comment have been acknowledged in the EIS, and overall, the Department of Defence has no concerns with the proposal at this time.

As previously advised, the proposed structures will meet the definition of tall structure. Defence therefore requests that the applicant provide AsA "as constructed" details. The details can be emailed to AsA at the following email address: vod@airservicesaustralia.com.

Should you wish to discuss the content of this advice further, my point of contact is Mr Tim Hogan at DSRGIDEP.ExecutiveSupport@defence.gov.au or by telephone on (02) 6266 8193.

Yours sincerely

David Harrison
A/Director
Land Planning and Regulation
Estate Planning Branch

23 November 2016

Australian Government
Department of Defence
Defence Support and Reform Group

EP_ID_ELP/2013/OUT/AF13952745

Mr Mike Ward
Rehbein Airport Consulting
PO Box 112
FORTITUDE VALLEY QLD 4006

Dear Mr Ward

BANGO WIND FARM NSW

Thank you for advising the Department of Defence (Defence) of the proposed Bango wind farm to be situated in the area between Boorowa and Rye Park NSW. The proposal is for 122 wind turbines located in three main clusters. The wind turbines will have a maximum blade tip height of 192m Above Ground Level (AGL).

Defence has assessed the proposal for any possible impact on its operations including the safety of military aircraft, the affect on Defence communications and the operation of Airfield Surveillance radars.

Defence acknowledges that the draft Aviation Impact Statement prepared by your company has recommended obstacle lighting of the wind turbines in accordance with the National Airports Safeguarding Framework Guideline D. Defence supports the implementation of any measures that increase aviation safety and requests that the colour used for the wind turbines ensure that they are conspicuous to aircraft during daylight hours.

It should be noted that tall structures present a hazard to flight safety for low level flying operations. Consequently, there is an ongoing need to obtain and maintain accurate information about tall structures so that risks associated with inadvertent collision by low flying aircraft can be reduced. The RAAF Aeronautical Information Service (RAAF AIS) in Melbourne is responsible for recording the location and height of tall structures. The information is held in a central database managed by RAAF AIS and relates to the erection, extension or dismantling of tall structures the top measurement of which is:

a. 30 metres or more above ground level - within 30 kilometres of an aerodrome, or

b. 45 metres or more above ground level elsewhere.

The wind turbines will meet the above definition of tall structure. RAAF AIS has requested that the proponent supply them with location and height details once final design positions are known and before construction commences. After construction is complete, Defence requests that the proponent provides RAAF AIS with "as constructed" details. RAAF AIS has a web

site with a Vertical Obstruction Report Form at www.raafais.gov.au/obstr_form.htm which can be used to enter the location and height details of tall structures.

Defence has no objection to the proposal subject to the conditions stated above. Should you wish to discuss the content of this submission further please contact Mr Gary Lee on email LPSI.directorate@defence.gov.au or telephone (02) 6266 8187.

Yours sincerely

Ms Simone Murray
Director External Land Planning
Department of Defence
PO Box 7925
CANBERRA ACT 2610

20 May 2013

For Information:
Regional Director DSRG Southern NSW

Australian Government
Department of Defence
Defence Support Group

ID/EP/ELP/OUT/72/2012AF11988865

Adrian Maddocks
Senior Development Manager
Wind Prospect CWP Pty Ltd
PO Box 1708
NEWCASTLE, NSW, 2300

Dear Mr Maddocks

RE: BANGO WIND FARM, NSW

Thank you for advising the Department of Defence (Defence) of the proposed Bango wind farm to be situated in the NSW Southern Tablelands approximately 20 kilometres north of Yass. Defence understands the wind farm is to consist of upwards of 100 wind turbine generators with maximum blade tip heights of 188 metres above ground level.

Defence has undertaken an assessment limited to the information available on the proposal for potential impacts to operations in the area. This includes the safety of low flying military aircraft, as well as affects to Defence communications, and surveillance radars. Defence advises that the Bango wind farm will not cause any unacceptable interference to Defence communications or surveillance radars.

For aircraft safety purposes, Defence acknowledges Wind Prospect CWP Pty Ltd has raised consideration to include aviation warning lights at selected locations within the wind farm. Defence supports the implementation of any measures that increase aviation safety. In this respect, Defence notes that the Department of Infrastructure and Transport has published a guideline which addresses managing risks to aviation safety of wind farms, available at the following address http://www.infrastructure.gov.au/aviation/environmental/nasf/files/4.1.3_Guideline_D_Wind_Turbines.pdf

Further to these considerations, Defence recommends that the colour used for the turbines ensure that they are conspicuous to aircraft during daylight hours.

Not withstanding the matters raised above, there is an ongoing need to obtain and maintain accurate information about tall structures so that risks associated with inadvertent collision by low flying aircraft can be reduced. The RAAF Aeronautical Information Service (RAAF AIS) is responsible for recording the location and height of tall structures. The information is held in a central database managed by RAAF AIS and relates to the erection, extension or dismantling of tall structures the top measurement of which is:

a. 30 metres or more above ground level - within 30 kilometres of an aerodrome, or
b. 45 metres or more above ground level elsewhere.

The proposed wind turbines will meet the above definition of a tall structure. Defence requests that the proponent provide RAAF AIS with "as constructed" details of the wind farm. RAAF AIS has a web site with a Vertical Obstruction Report Form at www.raafais.gov.au/obstr_form.htm which can be used to enter the location and height details of tall structures.

Should you wish to discuss the content of this advice further, my point of contact is Mr. Teijo Vuolo on telephone (02) 6266 8193.

Yours sincerely

Brenin Presswell
A/Director External Land Planning
BP3-1-A052
Department of Defence
CANBERRA ACT 2600

28 September 2012