

Aeronautical Sites at Risk from Wind Energy Developments

Quick Check Analysis

Date: 27 November 2012

Location name:	Backies Farm 1		
OSGB Easting:	349785	OSGB Northing:	858675
LandRanger® Grid	NJ4978558675		
Remarks:	First of two turbines		
Terrain Model Used:	SRTM3		

Are there any Officially Safeguarded airfields within 30km?	No		
Airfield Name:	N/A	Airfield Distance:	N/A
Remarks:	N/A		

Are there any other airfields that may need to be considered?	No		
Airfield Name:	N/A	Airfield Distance:	N/A
Remarks:	N/A		

Are there any radar installations that may need to be considered?	Yes		
Radar site name:	RAF Lossiemouth PSR	Radar site distance:	30.79km
Maximum blade tip height likely to be tolerable:	Not an issue.		
Remarks:	MoD. There is significant terrain screening between the sites.		
Radar site name:	Allan's Hill PSR	Radar site distance:	40.54km
Maximum blade tip height likely to be tolerable:	Not an issue		
Remarks:	NERL. There is significant terrain screening between the sites.		
Radar site name:	Perwinnes PSR	Radar site distance:	61.94km
Maximum blade tip height likely to be tolerable:	Not an issue		
Remarks:	NERL. There is significant terrain screening between the sites.		

Radar site name:	RAF Buchan ADR	Radar site distance:	63.98km
Maximum blade tip height likely to be tolerable:			Not an issue.
Remarks:	MoD. There is significant terrain screening between the sites.		

Are there any aeronautical navigational aids that need to be considered?			No
Navaid name:	N/A	Navaid distance:	N/A
Remarks:	N/A		

Are there any aeronautical communications sites that need to be considered?			No
Site Name:	N/A	Site distance:	N/A
Remarks:	N/A		

General Remarks:	There do not appear to be any limitations associated with aeronautical or Met Office facilities against this proposed location.
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Abbreviations used

ADR	Air Defence Radar
AGL	Above Ground Level
km	kilometres
m	metres
MoD	Ministry of Defence
N/A	Not Applicable
NERL	NATS En-Route Ltd
OSGB	Ordnance Survey of Great Britain
PSR	Primary Surveillance Radar
SRTM3	Shuttle Radar Topography Mission – 3 arc-second resolution

Please Note:

These Quick Check assessments should not be considered as suitable for submission to planning authorities as evidence of a site having been fully, technically, evaluated against the risk of detection by radar, or of having limited effect on other aviation assets such as navigational aids or communications sites.

The purpose of these assessments is to assist with the selection of sites and equipment such that there is a reduced risk of causing clutter on radar or harmful interference to other aviation assets. Where a turbine tip height is selected that is close to that suggested in this assessment, it is strongly recommended that a full technical assessment is carried out to provide tabulated results using an ITU recommended propagation model.