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# Director-General's Requirements

## Section 75F of the *Environmental Planning and Assessment Act 1979*

<b>Project</b>	Construction and operation of an approximately 160 megawatt wind farm including up to 60-80 wind turbines and associated infrastructure including access roads, internal and underground cabling, control buildings, substation, grid connection, monitoring masts and temporary construction facilities.
<b>Site</b>	Approximately 55 kilometres north-east of Canberra and 35km south west of Goulburn within Upper Lachlan Shire Council between the Hume Highway, Collector Road and Collector Creek
<b>Proponent</b>	Transfield Services
<b>Date of Issue</b>	15 October 2010
<b>Date of Expiration</b>	15 October 2012
<b>General Requirements</b>	<p>The Environmental Assessment (EA) must include:</p> <ul style="list-style-type: none"> <li>• an <b>executive summary</b>;</li> <li>• a <b>detailed description</b> of the project including: <ul style="list-style-type: none"> <li>→ construction and operation details;</li> <li>→ the location and dimensions of all project components including the wind turbines (including exact coordinates and AHD heights of each turbine), underground transmission and communications cabling between turbines, transformers, electrical sub station, transmission line linking the wind farm to the grid, on site control room and equipment storage, switchgear, temporary concrete batching plant(s), construction compounds, access roads, road upgrades, crown roads and any obstacle lighting;</li> <li>→ a timeline identifying the proposed construction and operation of project components, their envisaged lifespan and arrangements for decommissioning and staging;</li> <li>→ supporting maps/plans clearly identifying existing environmental features (e.g. watercourses, vegetation), infrastructure and landuse (including nearby residences and approved residential developments or subdivisions) and the location/ siting of the project (including associated infrastructure) in the context of this existing environment;</li> <li>→ resourcing requirements (including, but not limited to, water supply and gravel); and</li> </ul> </li> <li>• consideration of any <b>relevant statutory provisions</b> including the consistency of the project with the objects of the <i>Environmental Planning and Assessment Act 1979</i> and any relevant development control plans;</li> <li>• an <b>assessment of the key issues</b> outlined below, during construction, operation and decommissioning (as relevant). The EA must assess the worst case as well as representative impact for all key issues taking into account cumulative impacts from nearby approved or operational windfarms (Cullerin and Capital Wind Farms);</li> <li>• a <b>draft Statement of Commitments</b> detailing measures for environmental mitigation, management and monitoring for the project;</li> <li>• a <b>conclusion justifying the project</b> taking into consideration the environmental, social and economic impacts of the project; the suitability of the site; and the public interest; and</li> <li>• <b>certification by the author</b> of the EA that the information contained in the assessment is neither false nor misleading.</li> </ul>
<b>Key Assessment Requirements</b>	<p>The EA must include assessment of the following key issues:</p> <ul style="list-style-type: none"> <li>• <b>Strategic Justification</b> - the EA must: <ul style="list-style-type: none"> <li>→ include a strategic assessment of the need, scale, scope and location for</li> </ul> </li> </ul>

the project in relation to predicted electricity demand, predicted transmission constraints and the strategic direction of the region and the State in relation to electricity supply, demand and electricity generation technologies; and its role within the Commonwealth's Renewable Energy Target Scheme;

- include a clear demonstration of quantified and substantiated greenhouse gas benefits, taking into consideration sources of electricity that could realistically be replaced and the extent of their replacement; Reference should be made to *Estimating Greenhouse Gas Emissions Abatement from Wind Farms in NSW*, McLennan Magasanik Associates, July 2010, Report to the Department of Environment, Climate Change and Water (DECCW) and the associated *NSW Wind Farm Greenhouse Gas Savings Tool* developed by DECCW;
  - include an analysis of the suitability of the project with respect to potential land use conflicts with existing and future land uses (including existing and approved rural-residential development, known development proposals in the surrounding area, building entitlement and subdivision potential, land of significant scenic or visual value, impacts on trigonometrical reserves in particular reserve 198 and 530137, land of high agricultural value, other water users, mineral reserves, forestry, conservation areas and crown land), taking into account local and strategic landuse objectives and the potential for cumulative social and economic impacts on the local community; and
  - describe the alternatives considered (location and/or design) for all project components, and provide justification for the preferred project demonstrating its benefits including community benefits on a local and strategic scale and how it achieves stated objectives and any measures to offset residual impacts.
- **Visual Impacts** - the EA must:
    - provide a comprehensive assessment of the landscape character and values and any scenic or significant vistas of the area potentially affected by the project taking into consideration cumulative impacts from surrounding approved or operational wind farms in the locality (in particular Cullerin and Capital Wind Farms). This should describe community and stakeholder values of the local and regional visual amenity and quality, and perceptions of the project based on surveys and consultation;
    - assess the impact of shadow "flicker", blade "glint" and night lighting from the wind farm on residents and road users;
    - identify the zone of visual influence (no less than 10 kilometres) and assess the visual impact of all project components on this landscape;
    - include an assessment of visual impacts from transmission line infrastructure including any cumulative impacts;
    - include photomontages of the project taken from potentially affected neighbouring residences (including approved but not yet developed dwellings or subdivisions with residential rights) where the occupant is assessed as likely to experience a high level of visual impact as well as from settlements and significant public view points. The photomontages must take into account cumulative impacts from surrounding approved or operational wind farms in the locality and include representative views of turbine night lighting if proposed; and
    - provide a clear description of proposed visual amenity mitigation and management measures and provide an assessment of the feasibility, effectiveness and reliability of proposed mitigation measures and any residual impacts after these measures have been implemented.
  - **Noise Impacts** - the EA must:
    - Include a comprehensive noise assessment of all phases and components of the project taking into account cumulative impacts from surrounding approved or operational wind farms in the locality including: turbine operation, the operation of the transformer and electrical substation, corona and/or aeolian noise from the transmission line, construction noise, traffic noise during construction and operation, and vibration generating activities

during construction and/or operation. The assessment must identify noise/vibration sensitive locations (including approved but not yet developed dwellings), baseline conditions based on monitoring results, the levels and character of noise (e.g. tonality, impulsiveness, low frequency etc) generated by noise sources, noise/vibration criteria, modelling assumptions and worst case and representative noise/vibration impacts;

- in relation to wind turbine operation, determine the noise impacts under operating meteorological conditions (i.e. wind speeds from cut in to rated power), including impacts under meteorological conditions that exacerbate impacts (including varying atmospheric stability classes and van den Berg effect). The probability of such occurrences must be quantified;
- include monitoring to ensure that there is adequate wind speed/profile data and ambient background noise data that is representative for all sensitive receptors;
- provide justification for the nominated average background noise level used in the assessment process, considering any significant difference between daytime and night time background noise levels higher than 30 dB(A);
- identify any risks with respect to tonal, low frequency or infra-noise;
- if any noise agreements with residents are proposed for areas where noise criteria cannot be met, provide sufficient information to enable a clear understanding of what has been agreed and what criteria have been used to frame any such agreements;
- clearly outline the noise mitigation, monitoring and management measures that would be applied to the project. This must include an assessment of the feasibility, effectiveness and reliability of proposed measures and any residual impacts after these measures have been incorporated; and
- include a contingency strategy that provides for additional noise attenuation should higher noise levels than those predicted result following commissioning and/or noise agreements with landowners not eventuate.

The assessment must be undertaken consistent with the following guidelines (or as otherwise agreed with the DECCW):

- Wind Turbines - the South Australian Environment Protection Authority's *Wind Farms - Environmental Noise Guidelines*, 2003;
- Electrical Substation – *NSW Industrial Noise Policy* (EPA, 2000);
- Traffic Noise – *Environmental Criteria for Road Traffic Noise* (NSW EPA, 1999);
- Site Establishment and Construction - *Interim Construction Noise Guidelines* (DECC 2009);
- Blasting – *Technical Basis for Guidelines to Minimise Annoyance Due to Blasting Overpressure and Ground Vibration* (ANZECC 1990).and
- Vibration – *Assessing Vibration: A Technical Guideline* (DECC, 2006).

• **Flora and Fauna** - the EA must:

- include an cumulative assessment of all project components on flora and fauna and their habitat consistent with the *Draft Guidelines for Threatened Species Assessment* (DEC, 2005), including identifying the condition and extent of existing vegetation (including whether the vegetation comprises a highly modified landscape) and habitat on site and the likely extent of disturbance associated with the project (including quantification of impacts on a local and regional context and worst case extent of impact on the basis of vegetation type and total native vegetation disturbed (ha of clearing));
- specifically consider impacts to: threatened species and communities listed under both State and Commonwealth legislation that have been recorded on the site and surrounding land including but not necessarily limited to: Natural Temperate Grasslands, Box Gum Woodland, Tableland Basalt Forest, Snow Gum Grassy Woodland, Gang Gang Cockatoo, Superb Parrot, Diamond Firetail, Brown Treecreeper, Varied Sitella and Eastern Bentwing-Bat, demonstrating that impacts to these species and communities have been minimised as far as reasonable and feasible. The EA must provide details of the survey methodology employed including survey effort and representativeness for species targeted;

- specifically consider impacts to native vegetation (including fragmentation and impacts to biodiversity corridors) and to significant habitat (including riparian and/or instream habitat in the case of disturbance of waterways);
- specifically assess the impact of the project on birds and bats from blade strikes, low air pressure zones at the blade tips (barotrauma, the layout of the turbines, including the potential nature/extent of impacts, significance of such impacts on threatened species and mitigation measures), and alteration to movement patterns, roost sites and nesting areas resulting from the turbines, including demonstration of how the project has been sited to avoid and/or minimise such impacts. If any of the bat and bird species likely to be impacted by the wind turbines are also listed species under State and Commonwealth legislation, then the significance assessment for each of these species must consider impacts from the wind turbines as well as impacts from habitat loss. The cumulative impacts from Cullerin and Capital wind farms are to be identified;
- provide details of how flora and fauna impacts would be managed during construction and operation of all project components, including adaptive management and maintenance protocols and monitoring programs; and
- include measures to avoid, mitigate or offset impacts associated with the construction and operation of all project components consistent with "improve or maintain" principles. Sufficient details must be provided to demonstrate the availability of viable and achievable options to offset the impacts of the project (including in relation to water quality, salinity, soils and biodiversity).

- **Indigenous Heritage** - the EA must include an assessment of the potential impact of the project components on indigenous heritage values (archaeological and cultural). The EA must demonstrate effective consultation with indigenous stakeholders during the assessment and in developing mitigation options (including the final recommended measures) consistent with the draft *Guidelines for Aboriginal Cultural Impact Assessment and Community Consultation* (DEC, July 2005). The EA must describe the actions that will be taken to avoid, mitigate or offset impacts.
- **Traffic and Transport** – the EA must assess the construction and operational traffic impacts of the project including:
  - Details of traffic volumes (both light and heavy vehicles) and transport routes (including site access and temporary access/egress routes) during construction and operation and impacts on local and regional roads and bridges;
  - Assess the potential traffic impacts of the project on road network function (including intersection level of service) and safety;
  - Assess the capacity of the existing road network to accommodate the type and volume of traffic generated by the project (including over-dimensional traffic) during construction and operation, including full details of any required upgrades to roads, bridges, site access provisions or other road features;
  - details of measures to mitigate and/or manage potential impacts, including construction traffic control, road dilapidation surveys and measures to control soil erosion and dust generated by traffic volumes; and
  - details of site access roads including how these would connect to the existing road network and any operational maintenance or handover requirements.
- **Hazard/Risks**– the EA must include an assessment of the potential impacts on aviation safety including the need for aviation hazard lighting considering nearby aerodromes and aircraft landing areas, defined air traffic routes, aircraft operating heights, radar interference, communication systems, and navigation aids. Aerodromes within 30km of the turbines should be identified and impacts on obstacle limitation surfaces addressed. In addition, the EA must assess the impact of the turbines on the safe and efficient aerial application of agricultural fertilisers and pesticides in the vicinity of the turbines. Possible effects on telecommunications systems must be identified. Potential hazards and risks associated with electric and magnetic fields and bushfires must also be

assessed. The EA must also detail measures to contain any hazardous substances to prevent the contamination of pastures and dams;

- **Water Quality**– the EA must identify water demands and assess the availability of construction water sources for the project and their statutory (licensing/future sharing plan) context, and assess potential environmental impacts associated with the identified sources including impacts on groundwater. Where the project would cross significant waterways, the EA must identify likely impacts to the waterways and measures to minimise impacts on hydrological, water quality, aquatic and riparian impacts. Details of the design of waterway crossings where such crossings are to be located in third order or higher streams are to be provided. The EA must also address soil erosion issues, the potential for clearing to create a salinity risk and the potential for accidental spills to affect water quality.
- **General Environmental Risk Analysis** – notwithstanding the above key assessment requirements, the EA must include an environmental risk analysis to identify potential environmental impacts associated with the project, proposed mitigation measures and potentially significant residual environmental impacts after the application of proposed mitigation measures. Where additional key environmental impacts are identified through this environmental risk analysis, an appropriately detailed impact assessment of the additional key environmental impact(s) must be included in the EA.
- **Consultation** – the Proponent must undertake a consultation program as part of the environmental assessment process, including consultation with, but not necessarily limited to, the following parties:
  - Upper Lachlan Council;
  - Yass Valley Council
  - Goulburn Mulwaree Council
  - NSW Department of Environment, Climate Change and Water;
  - NSW Office of Water;
  - Department of Industry and Investment;
  - NSW Roads and Traffic Authority;
  - TransGrid
  - NSW Rural Fire Service;
  - Land and Property Management Authority
  - Murrumbidgee Catchment Management Authority;
  - Lachlan Catchment Management Authority;
  - Commonwealth Department of Defence;
  - Civil Aviation Safety Authority;
  - Airservices Australia;
  - Aerial Agricultural Society of Australia;
  - titleholders of mineral exploration leases and mining licences within the project area; and
  - the local community and landowners.

The consultation process shall include measures for disseminating information to increase awareness of the project as well as methods for actively engaging stakeholders on issues that would be of interest/concern to them. The EA must:

- demonstrate effective consultation with stakeholders, and that the level of consultation with each stakeholder is commensurate with their degree of interest/concern or likely impact;
- clearly describe the consultation process undertaken for each stakeholder/group including details of the dates of consultation and copies of any information disseminated as part of the consultation process (subject to confidentiality); and
- describe the issues raised during consultation and how and where these have been addressed in the EA.

## Relevant Guidelines - For Reference

### General

Wind Energy Facilities draft Environmental Impact Assessment Guidelines (Planning NSW, June 2002).

Draft EIS Guideline "Network Electricity Systems and Related Facilities" (Planning NSW, February 2002)

Best Practice Guidelines for Implementation of Wind Energy Projects in Australia (Auswind, 2006).

### Visual

Wind Farms and Landscape Values: National Assessment Framework (Australian Wind Energy Association and Australian Council of National Trust, June 2007).

### Ecology

Cumulative Risk for Threatened and Migratory Species (Commonwealth Department of Environment and Heritage, March 2006).

Wind Farms and Birds: Interim Standards for Risk Assessment, (Auswind, July 2005).

Assessing the Impacts on Birds – Protocols and Data Set Standards (Australian Wind Energy Association).

Threatened Biodiversity Survey and Assessment – Guidelines for Developments and Activities (Working Document) (DEC, 2004).

Threatened Species Assessment Guidelines (DECC 2007)

### Aviation Hazard

Advisory Circular 139-18(0) Obstacle Marking and Lighting of Wind Farms (Civil Aviation Safety Authority, July 2007). Note: this advisory is currently withdrawn however a replacement has to date not been issued.

Windfarm Policy (Aerial Agricultural Association of Australia, December 2009)

Powerlines Policy (Aerial Agricultural Association of Australia, December 2009)

Information Sheet – Airport Related Development (AirServices Australia)

### Water Quality

National Water Quality Management Strategy: Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZECC 2000).

The NSW State Groundwater Quality Protection Policy (DLWC, 1998).

The NSW State Groundwater Dependent Ecosystems Policy (DLWC, 2002).

Department of Water and Energy's Guidelines for Controlled Activities (February 2008):

- Watercourse Crossings;
- Instream Works;
- Laying Pipes and Cables in Watercourses;
- Outlet Structures; and
- Riparian Corridors.

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Managing Urban Stormwater: Soils and Construction, Volume 1, 4<sup>th</sup> edition (Landcom, 2004)

Managing Urban Stormwater: Soils and Construction, Volume 2A, Installation of Services & 2C  
Unsealed roads (DECC)..

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# Planning

Contact: Neville Osborne  
Phone: 02 9228 6337  
Fax: 02 9228 6355  
Email: [neville.osborne@planning.nsw.gov.au](mailto:neville.osborne@planning.nsw.gov.au)

Mr Chris Thompson  
Project Manager  
Transfield Services  
c/o APP Corporation  
APP House  
Level 6, 53 Berry Street  
**NORTH SYDNEY NSW 2060**



Dear Mr Thompson

## **Proposed Collector Wind Farm, Upper Lachlan Local Government Area**

Please be advised that on 15<sup>th</sup> February, 2010, the Director, Infrastructure Projects branch of the Department of Planning, under delegation from the Minister for Planning, formed the opinion under clause 6 of the *State Environmental Planning Policy (Major Development) 2005* (Major Development SEPP) that the abovementioned project is development of a kind that is described in Schedule 1 of the Major Development SEPP.

The project is therefore declared to be a Major Project under Part 3A of the *Environmental Planning and Assessment Act 1979* and will be subject to determination by the Minister for Planning. I have enclosed a copy of the record of the Minister's opinion for your information and reference.

Please do not hesitate to contact me on the above details should you wish to discuss or clarify this matter.

Yours sincerely

Neville Osborne  
Manager, Water and Energy  
**Infrastructure Projects**

15/2/10



**Record of Minister's opinion for the purposes of Clause 6(1) of the  
State Environmental Planning Policy (Major Development) 2005**

I, the Director, Infrastructure Projects branch of the Department of Planning, as delegate of the Minister for Planning under delegation executed on 25 January, 2010, have formed the opinion that the development described in the Schedule below, is development of a kind that is described in Schedule 1, Group 8, clause 24 of *State Environmental Planning Policy (Major Development) 2005* namely development for the purpose of a wind electricity generation facility that has a capital investment value of more than \$30 million. It is therefore declared to be a project to which Part 3A of the *Environmental Planning and Assessment Act 1979* applies for the purpose of section 75B of that Act.

**Schedule**

A proposal by Transfield Services (Australia) Pty Ltd for the Collector Wind Farm, a wind electricity generating facility and associated infrastructure located within the Upper Lachlan local government area, comprising approximately 50 to 70 wind turbine generators, as generally described in the letter by Transfield Services (Australia) Pty Ltd/APP Corporation Pty Ltd to the Department of Planning dated 12 February, 2010.



Scott Jeffries  
Director, Infrastructure Projects  
Department of Planning

Date: 15 February 2010

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## Department of Planning

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**DECLARATION OF CRITICAL INFRASTRUCTURE PROJECTS  
UNDER SECTION 75C OF THE  
ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979**

I, the Minister for Planning, having formed the opinion that the category of development referred to in Schedule 1 is essential for the State for economic reasons, and for social reasons, and for environmental reasons, declare projects within that category to be critical infrastructure projects under Section 75C of the Environmental Planning and Assessment Act 1979.

Sydney, 11 November 2009.

The Hon KRISTINA KENEALLY, M.P.,  
Minister for Planning  
Minister for Redfern Waterloo

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SCHEDULE 1

Development for the purpose of a facility for the generation of electricity derived from renewable fuel sources (that is, wind energy, solar energy, geothermal energy, hydro energy, wave energy and bio energy), being development that:

- (a) is the subject of an application lodged pursuant to section 75E or section 75M of the Environmental Planning and Assessment Act 1979 lodged after the date of this declaration; and
- (b) is the subject of an application that proposes a development with a capacity to generate at least 30 megawatts.

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**DECLARATION OF CRITICAL INFRASTRUCTURE PROJECTS  
UNDER SECTION 75C OF THE  
ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979**

I, the Minister for Planning, having formed the opinion that the projects referred to in Schedule 1 are essential for the State for economic reasons, and for social reasons, and for environmental reasons, declare the projects within Schedule 1 to be critical infrastructure projects under Section 75C of the Environmental Planning and Assessment Act 1979.

Sydney, 11 November 2009.

The Hon KRISTINA KENEALLY, M.P.,  
Minister for Planning  
Minister for Redfern Waterloo

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SCHEDULE 1

The following renewable energy projects, being development for the purpose of wind farms, the subject of a project application lodged pursuant to section 75E or section 75M of the Environmental Planning and Assessment Act 1979:

- (a) Yass Wind Farm (Application Number MP08\_0246), and
- (b) Sapphire Wind Farm (Application Number MP09\_0093), and
- (c) Flyers Creek Wind Farm (Application Number MP08\_0252), and
- (d) Ben Lomond Wind Farm (Application Number MP08\_0012), and
- (e) Boco Rock Wind Farm (Application Number MP09\_0103).



# Planning

Contact: Kate Masters  
Phone: (02) 9228 6378  
Fax: (02) 9228 6366  
Email: [kate.masters@planning.nsw.gov.au](mailto:kate.masters@planning.nsw.gov.au)

Mr Nick Valentine  
Project Director  
Level 6, 53 Berry Street  
NORTH SYDNEY NSW 2060



Our ref: 10/02379

Dear Mr Valentine

**Subject: Revised Project Application and Director-General's Requirements for Collector Wind Farm (Application Reference: 10\_0156)**

The Department has received your revised project application for the above project.

The Department notes the additional Endangered Ecological Community – Tablelands Frost Hollow Grass Woodlands and threatened species – Little Eagle, Spotter Harrier, Square Tailed Kite, White Fronted Chat, Powerful Owl, Yellow-bellied Sheathtail Bat, Large-Footed Myotis, East Coast Free-Tail Bat, Greater Broad Nosed Bat, White Bellied Sea Eagle have been identified as potentially being impacted by the revised proposal.

The Department therefore requires impacts on these species to be addressed within the Environmental Assessment. The previous Director-General's Requirements (DGRs) dated 15 October 2010 still apply to the revised project application.

Your contact officer for this proposal, Kate Masters, can be contacted on 02 9228 6378 or via email at [kate.masters@planning.nsw.gov.au](mailto:kate.masters@planning.nsw.gov.au). Please mark all correspondence regarding the proposal to the attention of the contact officer.

Yours sincerely,

  
Daniel Keary  
Director  
Infrastructure Projects

2/2/11



**Office of the Director General**

Mr Chris Thompson  
Transfield Services Wind Developments P/L  
Level 7  
116 Miller Street  
North Sydney NSW 2060

Contact: Kate Masters  
Phone: (02) 9228 6366  
Fax: (02) 9228 6355  
Email: [kate.masters@planning.nsw.gov.au](mailto:kate.masters@planning.nsw.gov.au)

Our ref.: MP 10\_0156



Dear Mr Thompson

**Subject: Supplementary Director-General's Requirements for Collector Wind Farm  
MP 10\_0156**

I refer to the Director-General's requirements which were issued for the above project on 15<sup>th</sup> October, 2010 and supplemented on 2<sup>nd</sup> February, 2011.

These requirements specify that the community must be consulted during the preparation of the Environmental Assessment and relevant issues must be addressed in the document.

It is clear from submissions being received by the Department that many members of the community are not satisfied with the level and nature of consultation being undertaken by proponents during the preparation of wind farm environmental assessment documents.

I wish to emphasise the importance of effective and genuine community consultation and the need for proposals to proactively respond to the community's concerns.

Accordingly, under section 75F(3) of the *Environmental Planning and Assessment Act*, I am issuing supplementary requirements which must be addressed in the preparation of your Environmental Assessment. These requirements are:

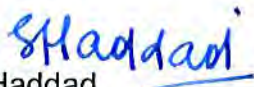
1. a comprehensive, detailed and genuine community consultation and engagement process must be undertaken. This process must ensure that the community is both informed of the proposal and is actively engaged in issues of concern to them, and is given ample opportunity to provide its views on the proposal. Sufficient information must be provided to the community so that it has a good understanding of what is being proposed and of the impacts. There should be a particular focus on those non wind farm associated community members who live in proximity to the site;
2. the Environmental Assessment must clearly document and provide details and evidence of the consultation process and who was consulted with;
3. all issues raised during the consultation process must be clearly identified and tabulated in the Environmental Assessment; and
4. the Environmental Assessment must state how the identified issues have been addressed, and how they have informed the proposal as presented in the

Environmental Assessment. In particular, the Environmental Assessment must state how the community's issues have been responded to.

I wish to emphasise that the Department will review compliance with these, and other, requirements during its adequacy review of the Environmental Assessment. If it does not adequately respond to these requirements it will not be accepted as adequate for public exhibition.

Your contact officer for this proposal, Kate Masters, can be contacted on 9228 6366 or via email at [kate.masters@planning.nsw.gov.au](mailto:kate.masters@planning.nsw.gov.au). Please mark all correspondence regarding the proposal to the attention of the contact officer.

Yours sincerely,



Sam Haddad  
**Director-General**

16/8/2011



Office of the Director General

Mr Chris Thompson  
Transfield Services Wind Developments Pty Ltd  
Level 7  
116 Miller Street  
NORTH SYDNEY NSW 2060

12/05643

Dear Mr Thompson

**Draft NSW Wind Farm Planning Guidelines**

I am writing to you about the implementation of the *Draft NSW Wind Farm Planning Guidelines* ('the guidelines'), which were publicly exhibited from 23 December 2011 to 14 March 2012. The guidelines provide a regulatory framework to guide investment in wind farms across NSW while minimising potential impacts on local communities. A copy of the draft guidelines is available at [www.planning.nsw.gov.au](http://www.planning.nsw.gov.au).

It is intended that the guidelines will be finalised by mid 2012. The guidelines are relevant for all proponents and owners of wind farms, and I ask you to consider the attached Policy Statement in preparing assessment documentation or in managing your existing operations.

I am also asking proponents of wind farm projects and owners of wind farms to advise me of the measures they propose to take to implement the draft guidelines.

Until the finalisation of the draft guidelines, it is important to ensure that the potential environmental impacts of wind farms are comprehensively considered as part of the assessment process and the construction and operation of approved projects. Please refer to the attached Policy Statement which identifies the interim arrangements for State Significant Development and transitional Part 3A wind farms. The arrangements vary depending on the stage of an application in the assessment and determination process.

I have also attached a checklist highlighting key provisions of the guidelines which should be adopted for new applications and those yet to be exhibited.

The Department will support and advise you further on how to adopt and implement the guidelines. In this regard, I have arranged for Neville Osborne, Manager Infrastructure Projects, to assist you. Mr Osborne may be contacted on (02) 9228 6337.

Yours sincerely

Sam Haddad  
Director-General

18/4/2012

## POLICY STATEMENT

### INTERIM WIND FARM PLANNING POLICY FOR STATE SIGNIFICANT AND TRANSITIONAL PART 3A WIND FARM PROJECTS

#### Background

The *Draft NSW Wind Farm Planning Guidelines* ('the guidelines') were publicly exhibited from 23 December 2011 to 14 March 2012. The guidelines provide a policy and regulatory framework to guide investment in wind farms in NSW while minimising potential impacts on local communities. The guidelines will be finalised after consideration of all submissions received during the exhibition period. In the interim, there are current, pending and approved State Significant Development (SSD) and transitional Part 3A wind farm applications.

#### Purpose of this Policy Statement

Until the finalisation of the guidelines, it is important to ensure that the potential environmental impacts of wind farms are comprehensively considered as part of the assessment process and the construction and operation of approved projects. This policy statement identifies the interim arrangements for consideration of the draft guidelines in relation to SSD and transitional Part 3A wind farms applications.

#### Interim policy arrangements

The following arrangements apply to all SSD and transitional Part 3A wind farms applications that have been or will be lodged with the Department before the finalisation of the guidelines.

Relevant provisions of the guidelines will be considered by the Department in determining the adequacy of an environmental assessment for exhibition. The Department will also consider relevant provisions of the draft guidelines in developing conditions of consent where applications are recommended for approval.

The implementation of the interim policy by proponents will vary according to the stage the application(s) is at in the assessment and approval process, as follows:

#### **1. *New applications for which DGRs have not yet been issued***

The guidelines will be comprehensively applied to all new wind farm applications where Director General's Requirements (DGRs) have not been issued.

- The DGR's require the implementation of the relevant provisions in the draft guideline in the environmental assessment including the noise assessment, visual assessment, aviation safety, bushfire hazards, construction and decommissioning, monitoring and compliance programs and community consultation provisions. Please refer to attached Checklist.
- Proponents will be required to consult with all neighbours with dwellings within 2km of proposed wind turbines to identify any issues and potential approaches to mitigate any adverse impacts. Proponents should also seek the written agreement from neighbours with a dwelling within 2km of a proposed wind turbine.
- A community consultation committee will be required to be formed by the proponent and the committee will be consulted during the assessment process. Appendix C of the guidelines provides guidance on the establishment, membership and operation of the committee. The Department will assist proponents with the appointment of an independent committee chair and in the selection of members.

## **2. Applications for which DGRs have been issued but are yet to be exhibited**

The guidelines will apply to the maximum extent possible to all wind farm applications for which the DGRs have been issued, but an environmental assessment has not yet been exhibited.

- Proponents are encouraged to adopt relevant provisions of the guideline relating to the construction and operation of wind farms in their environmental assessment, in particular relating to noise assessment, visual assessment, aviation safety, bushfire hazards, construction, decommissioning, monitoring and compliance programs. Please refer to the attached Checklist.
- Proponents should consult with all neighbours with dwellings within 2km of proposed wind turbines to identify any issues and potential approaches to mitigate any adverse impacts. Proponents should, where possible, seek the written agreement from neighbours with a dwelling within 2km of a proposed wind turbine.
- It is strongly recommended that proponents, if not done so already, immediately establish a Community Consultation Committee to provide for ongoing communication with the local community. Appendix C of the guidelines provides guidance on the establishment, membership and operation of the committee. The Department will assist proponents with the appointment of an independent committee chair and in the selection of members.

## **3. Applications that have been exhibited but not yet determined**

Proponents are encouraged to adopt relevant provisions of the guidelines in the assessment, operation and construction of projects.

- It is recommended that proponents consider relevant provisions of the guidelines when responding to issues raised in submissions particularly in relation to noise, decommissioning and compliance provisions.
- It is strongly recommended that proponents, if not done so already, immediately establish a Community Consultation Committee to provide for ongoing communication with the local community. Appendix C of the guidelines provides guidance on the establishment, membership and operation of the committee. The Department will assist proponents with the appointment of an independent committee chair and in the selection of members.
- The Department will consider relevant provisions of the guidelines in developing conditions of consent where applications are recommended for approval.

## **4. Applications that have been approved**

Proponents are encouraged to adopt relevant provisions of the guidelines in the operation and construction of projects.

- It is recommended that proponents consider relevant provisions of the draft guidelines in relation to noise management, decommissioning, monitoring and performance compliance in the construction and operation of the project.
- It is strongly recommended that proponents, if not done so already, immediately establish a Community Consultation Committee to provide for ongoing communication with the local community. Appendix C of the draft guidelines provides guidance on the establishment, membership and operation of the committee. The Department will assist proponents with the appointment of an independent committee chair and in the selection of members.

**CHECK LIST**  
**Key aspects of the 'Draft NSW Planning Guidelines Wind Farms'**  
**relevant to applications yet to be exhibited**

<b>Issue</b>	<b>Potential Issues for considerations</b>
<b>Consultation</b>	<ul style="list-style-type: none"> <li>• Form a Community Consultation Committee.</li> <li>• Document the consultation process undertaken, including stakeholders consulted. Identify and tabulate issues raised by stakeholders during consultation. Describe how issues raised have been addressed.</li> <li>• Consult with all neighbours with dwellings within 2km of a proposed wind turbine. Identify the neighbours' issues and potential approaches to mitigate any adverse impacts.</li> <li>• Consider seeking agreement with neighbours with dwellings within 2km of a proposed wind turbine.</li> </ul>
<b>Landscape and visual amenity</b>	<ul style="list-style-type: none"> <li>• Provide photomontages from all non-host dwellings within 2km of a proposed wind turbine.</li> <li>• Identify the zone of visual influence of the wind farm (no less than 10km). and likely impacts on community and stakeholder values. Consider cumulative impacts on landscape and views.</li> <li>• Outline mitigation measures to avoid or manage impacts.</li> </ul>
<b>Noise</b>	<ul style="list-style-type: none"> <li>• Undertake assessment based on separate daytime (7am to 10pm) and night-time periods (10pm to 7am).</li> <li>• Predict noise levels at all dwellings within 2km of a proposed turbine.</li> <li>• Consider special audible characteristics, including tonality, amplitude modulation, and low frequency noise (apply penalties where relevant).</li> <li>• Outline measures to avoid, minimise, manage and monitor impacts.</li> </ul>
<b>Health</b>	<ul style="list-style-type: none"> <li>• Consider and document health issues, focusing on neighbours with dwellings within 2km of proposed wind turbines.</li> </ul>
<b>Ecological issues</b>	<ul style="list-style-type: none"> <li>• Consider potential impacts on birds and bats, particularly migratory species and outline the proposed monitoring and mitigation strategy</li> </ul>
<b>Aviation safety</b>	<ul style="list-style-type: none"> <li>• Outline current agricultural aerial uses on neighbouring properties.</li> <li>• Consider the potential for the proposed wind farm to impact on aviation safety associated with agricultural aerial uses consistent with the draft guidelines.</li> </ul>
<b>Bushfire hazard</b>	<ul style="list-style-type: none"> <li>• Consider bush fire issues consistent with the draft guidelines, including the risks that a wind farm will cause bush fire and any potential impacts on the aerial fighting of bush fires.</li> </ul>
<b>Blade throw</b>	<ul style="list-style-type: none"> <li>• Assess blade throw risks consistent with the draft guidelines.</li> <li>• Outline measures to avoid, minimise, manage and monitor impacts.</li> </ul>
<b>Economic issues</b>	<ul style="list-style-type: none"> <li>• Consider whether the wind farm use is consistent with relevant local or regional land use planning strategies.</li> <li>• Consider potential to impact upon mining/petroleum leases and exploration licences.</li> <li>• Consider any potential impacts upon property values consistent with the draft guidelines, including properties within 2km.</li> </ul>
<b>Decommissioning</b>	<ul style="list-style-type: none"> <li>• Include a Decommissioning and Rehabilitation Plan in the EA, including proposed funding arrangements.</li> <li>• Confirm that the proponent not the landowner is responsible for decommissioning.</li> </ul>
<b>Monitoring and compliance program</b>	<ul style="list-style-type: none"> <li>• Outline program to monitor environment performance to ensure compliance including mechanisms for reporting outcomes and procedures to rectifying non-compliance – including any provisions for independent reviews.</li> </ul>
<b>Council planning controls</b>	<ul style="list-style-type: none"> <li>• Outline whether the proposal is consistent with any relevant provisions of the relevant council's Development Control Plan and list any variations.</li> </ul>

**Transfield Services Pty Ltd**  
c/o APP Corporation  
Level 6, 53 Berry Street  
North Sydney NSW 2060

Telephone 02 9963 9924  
Mobile 0417 219 465  
Email: [valentinen@transfieldservices.com](mailto:valentinen@transfieldservices.com)



Ref: 125333/230303/03.12

7 September 2010

General Manager  
Upper Lachlan Shire Council  
PO Box 10  
Crookwell NSW 2583

By email:

Dear Sir/Madam

### **COLLECTOR WIND FARM PROPOSAL**

Transfield Services Pty Ltd is a leading international provider of operations, maintenance, asset management and project management services. It operates in Australia, New Zealand, the United States, the United Arab Emirates, Qatar, South East Asia, India and Canada across diverse industries including mining and process, hydrocarbons, roads, rail and public transport, water, power, telecommunications, facilities management and defence.

Transfield Services owns three operating wind farms (Starfish Hill, SA; Toora, VIC; and Windy Hill, QLD) and has a development portfolio of 11 projects with the potential to produce approximately 1,000 megawatts (MW) of wind energy. Transfield Services' portfolio includes the Collector Wind Farm Project, near Goulburn. The company is currently examining the feasibility of developing a wind farm near Collector with a capacity of approximately 150MW, comprising between 40 and 70 wind turbine generators.

The Department of Planning has declared the proposal a Major Project, requiring assessment under Part 3A of the *Environmental Planning and Assessment Act 1979*. Transfield Services recently submitted a Major Project Application to the Department, together with a Preliminary Environmental Assessment (PEA), and awaits receipt of the Director-General's environmental assessment requirements.

Following discussions with the Department of Planning, Transfield Services is seeking comment and input from your agency on the matters to be addressed in the environmental assessment. Your comments within 30 days of the date of this letter would be appreciated.

The PEA (attached) provides background information on the project; however should you require further information please contact me on (02) 9963 9924 or by email at [valentinen@transfieldservices.com](mailto:valentinen@transfieldservices.com). Alternatively, I would be happy to provide you with a briefing on the project at your offices.

Yours sincerely

A handwritten signature in blue ink, appearing to read "N. Valentine", is written over a light blue horizontal line.

**NICK VALENTINE**  
Project Manager

Encl.





ABN 94 919 24 632

## Upper Lachlan Shire Council

All correspondence addressed to the General Manager, PO Box 42, Gunning NSW 2581

Cookwell Office: 44 Spring Street, Cookwell NSW 2583

p: 02 4830 1000 | f: 02 4832 2086 | e: council@upperlachlan.nsw.gov.au | www.upperlachlan.local.nsw.gov.au

Gunning Office: 123 Yass Street, Gunning NSW 2581

p: 02 4845 4100 | f: 02 4845 1426 | e: council@upperlachlan.nsw.gov.au

Taraiga Office: Taraiga Community Service Centre, Orchard Street, Taraiga NSW 2580

p: 02 4840 2099 | f: 02 4840 2286 | e: taraigacsc@celinet.net.com.au

Our Ref: 15.1.35  
Your Ref: 10/02379

5 October 2010

NSW Department of Planning  
GPO Box 39  
SYDNEY NSW 2001



PCU015311

Attention: Kate Masters

Dear Madam

**RE: COLLECTOR WIND FARM - REQUEST FOR ENVIRONMENTAL ASSESSMENT REQUIREMENTS**

Reference is made to your letter dated the 21 September 2010 regarding the above.

In accordance with Section 75F(4) of the EP&A Act please be advised that Council is in agreement with the Director General's Requirements with the inclusion of the following additional key issues:

- Traffic and Transport
  - A detailed pavement and structure analysis to be undertaken on all affected sections of public road.
  - A road safety audit to be undertaken on all affected sections of public road.
  - An analysis of the horizontal and vertical alignment to determine the adequacy of the affected public road network for all expected traffic types.

*Reason: Provides the ability to assess potential impact on existing Council infrastructure.*

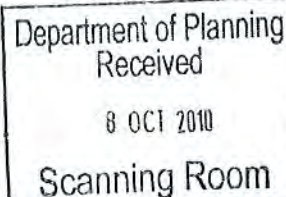
- Proposed Community Enhancement Program.

*Reason: To address issues which are directed at improving the quality of life for the people of the Shire; and preparedness to advocate for reasonable contributions towards the provision of community facilities and services from developments having a significant social impact on the Shire community.*

For any further information or clarification please contact Council's Environment and Planning Section, during office hours.

Yours faithfully

Tina Dodson  
Manager Environment and Planning  
for  
J K Bell  
General Manager  
Upper Lachlan Shire Council





# yass valley council

the country the people

Your Reference: 125333/230302/02.09  
Our Reference: FL.L.02.00.00  
Document No: (5344.3-7.2.4)  
Contact: Noreen Vu  
Phone: (02) 6226 1477

Address all correspondence to:  
General Manager  
Yass Valley Council  
PO Box 6  
YASS NSW 2582

28 October 2010

Mr Nick Valentine  
Transfield Services Pty Ltd  
c/o APP Corporation  
Level 6, 53 Berry Street  
NORTH SYDNEY NSW 2060

Dear Nick,

## RE: Collector Wind Farm Proposal

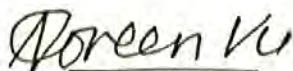
I refer to your correspondence to Council dated 20 October 2010 requesting Council's comments on the Collector Wind Farm Proposal Preliminary Environmental Assessment (PEA).

The subject site does not fall within the jurisdiction of the Yass Valley Local Government Area (LGA). The closest wind turbine is situated 800m from the Yass Valley boundary and preliminary assessment suggests that the closest dwelling situated in our LGA is 2.5km from the turbine. Therefore we hope that the final environmental assessment takes into consideration of the vista impacts and any future dwelling entitlements south of Collector Road.

The PEA provides no details of traffic movements. Accordingly it is advised that any heavy vehicle traffic movements that utilise the local road network within our jurisdiction will require consultation with Council's Engineering Department prior to construction.

I thank you for requesting Council's comments and I trust that the information above satisfies your enquiry. Should you require any further assistance please do not hesitate to contact me on 62261477 or at [Noreen.vu@yass.nsw.gov.au](mailto:Noreen.vu@yass.nsw.gov.au).

Yours sincerely,



Noreen Vu  
**Strategic Planner**



**Kate Masters - Collector Wind Farm [Scanned]**

---

**From:** "Richard Davies" <Richard.Davies@goulburn.nsw.gov.au>  
**To:** <kate.masters@planning.nsw.gov.au>  
**Date:** 23/09/2010 11:09 AM  
**Subject:** Collector Wind Farm [Scanned]

---

Hi Kate,

Your reference: 10/02379

Goulburn Mulwaree Council has received your request in regards to the EA requirements for the proposed Collector Wind Farm. GMC would be interested in the travel route for the vehicles related to the construction of this development, in particular the oversize and over weight vehicles and such details should form part of the EA.

Council also requests that consultation of the EA involve the closer land owners within the Goulburn Mulwaree Local government Area. Council can assist with postal details if required.

My details are provided below and I will be GMC's point of contact for this development.

Any questions, feel free to contact me.

Regards,

Richard Davies  
Manager Development Control

Goulburn Mulwaree Council  
Locked Bag 22  
Goulburn NSW 2580

ph: (02) 4823 4444 – direct 4823 4452  
fax: 4822 7999  
e: richard.davies@goulburn.nsw.gov.au

Think of the environment, please don't print this e-mail unless you really need to. This message may contain confidential information. If you think it has been sent to you by mistake, please delete all copies and attachments and advise the sender. Please note that Council has a maximum email size of 5MB.





**Australian Government**  
**Civil Aviation Safety Authority**

OFFICE OF THE DIRECTOR OF AVIATION SAFETY

Trim Ref: G110/870

October 2010

Mr Nick Valentine  
Project Manager  
Transfield Services Pty Ltd  
c/o APP Corporation  
Level 6, 53 Berry Street  
NORTH SYDNEY NSW 2060

Email: [valentinen@transfieldservices.com](mailto:valentinen@transfieldservices.com)

Dear Mr Valentine

I refer to your letter of 7 September 2010 addressed to Mr Roger Chambers, Civil Aviation Safety Authority (CASA) regarding the Collector Wind Farm Proposal.

The following comments are provided:

**Effect on the operation of aircraft**

- CASA notes that the Wind Turbine Generators (WTGs) will be positioned with only a few hundred metres lateral separation, and individual turbines could reach a height (to blade tips) of 150 metres Above Ground Level (AGL). From an operational viewpoint, agricultural or low level survey are likely to be the only daytime operations that would use the airspace surrounding a WTG below 500 feet AGL. It is unlikely that such operations would be conducted at night.
- Assessment by the NSW Department of Planning for the Gullen Range wind farm determined, in relation to the Crookwell Aircraft Landing Area (ALA), that *"In order to preserve the current integrity of the aerodrome no turbine will be located within the Obstacle Limitation Surface criteria for a Code 1, 2 non-precision instrument runway classification as specified in CASA's Part 139 Manual of Standards."*
- I have been advised that the only ALA marked on the Canberra Visual Terminal Chart in the neighbourhood of the proposed Collector wind farm is at Winderadeen, to the south of Collector township. None of the turbines in the proposed development would affect the Obstacle Limitation Surface (OLS) if

this ALA were to be registered and classified as suggested in the Department of Planning's conditions.

- The turbulence generated in the wake of the rotating blades has not been quantified.

#### **Legislation**

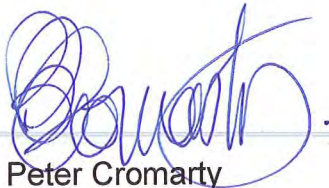
- The legislation (Civil Aviation Safety Regulation Part 139 and the Manual of Standards) does not provide for the control of obstacles outside the OLS of a certified or registered aerodrome and there is currently no regulation of obstacles in proximity to aeroplane landing areas or helicopter landing sites.

#### **Marking, lighting and charting**

- There are environmental issues caused by the marking of turbine structures during the day and by lighting them at night.
- Painting the towers and turbine blades to make them less obtrusive or conspicuous by day is, in itself, a safety concern.

I trust this information is of assistance to you.

Yours sincerely



Peter Cromarty  
Executive Manager  
Airspace and Aerodrome Regulation

---

**From:** LEONARDI, FRANK [mailto:FRANK.LEONARDI@casa.gov.au]  
**Sent:** Fri 15/10/2010 5:09 PM  
**To:** Valentine, Nick  
**Cc:** MCGREGOR, MALCOLM  
**Subject:** Collector Wind Farm Proposal [SEC=UNCLASSIFIED]

Mr Nick Valentine  
Project Manager  
Collector Wind Farm Proposal  
Transfield Services Pty Ltd

Dear Mr Valentine

I refer to your letter of 7 September 2010 to Mr Roger Chambers, Civil Aviation Safety Authority. Your letter was subsequently referred to Airways and Aerodromes Branch who has carriage of matters concerning obstacles and hazards to air navigation.

The proposed location of the Collector Wind Farm is not expected to have an impact on operations at either Goulburn and Canberra Aerodromes as it is considered to be located sufficiently away from both aerodromes. As correctly pointed out in the preliminary environmental assessment, at this time CASA has no authority to require the obstacle marking and lighting of tall structures, including wind farms, which are located away from aerodromes.

Notwithstanding CASA's regulatory authority, proponents of structures which could be hazardous to aviation have a duty of care to aviators likely to be operating in the vicinity of the proposed structure. In this regard please contact Mr Phil Hurst of the Aerial Agriculture Association of Australia (02 6241 2100) to advise him of the proposal and obtain comment on the potential hazards to aerial application and related operations in the area.

The preliminary environmental assessment suggests that the maximum blade tip height above ground of the wind turbines would be up to 150m. As aircraft are permitted to fly as low as 500 ft (152 m) above ground by day away from built-up areas the height the proposed turbines are likely to be a hazard to aircraft operating over the area. Allowing for probable tolerances in aircraft altitude places the blade tip height of the turbines perilously close to aircraft flight paths. In this situation it is recommended that you consider your duty of care in deciding whether or not the wind farm should be identified by obstacle lighting and or marking.

If you chose to provide obstacle lighting to make the presence of your wind farm conspicuous at night or during periods of low visibility the obstacle lighting layout should conform to the *CASA Manual of Standards (MOS) Part 139 - Aerodromes*, particularly Chapter 9, paragraph 9.4.3.4A. The web link for this reference is:  
<http://casa.gov.au/wcmswr/assets/main/rules/1998casr/139/139mfull.pdf>.

Please note that any requirements placed on the proponents of wind farms by planning authorities, insurance companies, legal advisors or financiers are beyond CASA's control.

When the proposed development is given permission to proceed, details of the location, extent and height of the wind farm along with construction start and completion dates are to be provided to CASA. As well details of the location, extent and height of the wind farm are to be provided to the Department of Defence for their tall structures data bank. I will be happy to provide you with more information regarding notification details at the appropriate time.

I hope this has been helpful to you and please do not hesitate to contact me if you require clarification of any aspects covered here.

Yours sincerely

**Frank Leonardi**  
Aerodrome Engineer (Civil)  
Airways and Aerodromes  
CASA Canberra

p: 02 6217 1740 or 131 757  
e: [frank.leonardi@casa.gov.au](mailto:frank.leonardi@casa.gov.au)

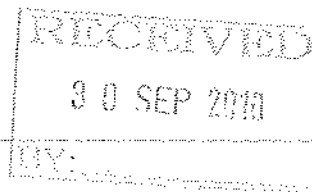
**From:** Martin Brown  
**To:** Kate Masters  
**Date:** 7/10/2010 1:36 pm  
**Subject:** Fwd: Collector Wind Farm - Major Project Application - Updated PEA  
**Attachments:** Fwd: Collector Wind Farm - Major Project Application - Updated PEA

Good afternoon Kate,  
My apologies - I was supposed to have provided comments on this to you by now!  
For what its worth the DGs requirements appear to be fine. Visual impacts, noise and fauna impacts  
always the key issues for wind farms.  
Again sorry for the delay and feel free to contact me if needed  
Regards  
Martin

**Martin Brown**  
Environmental Planning Officer  
Southern Region  
Department of Planning  
Telephone 02 6229 7913  
Facsimile 02 6229 7901

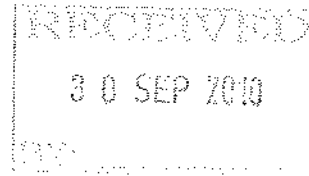


Our Ref: 454DA89 (10/1219) STH10/00195  
Contact: Tim Webster 4221 2769  
Your Ref: I25333/230303/03.12



29 SEP 2010

Transfield Services  
c/o APP Corporation  
Level 6, 53 Berry Street  
North Sydney NSW 2060



Attention: Nick Valentine

**UPPER LACHLAN SHIRE COUNCIL – PART 3A MAJOR PROJECT – COLLECTOR ROAD/HUME HIGHWAY, COLLECTOR – COLLECTOR WINDFARM PROPOSAL**

Dear Sir

Reference is made to your letter dated 7 September 2010 regarding the subject major project application forwarded to the Roads and Traffic Authority (RTA) for consideration. The RTA would like to advise that the subject proposal is located in the RTA's Southern Region and accordingly all future correspondence should be directed to RTA Southern Region, Land Use Development Unit, PO Box 477, Wollongong East, NSW 2520.

The RTA has reviewed the information provided and considers that the following information should be addressed in the Environmental Assessment (EA):

- A Traffic Impact Study (TIS) is required. As a guide Table 2.1 of the RTA Guide to Traffic Generating Developments outlines the key issues that may be considered in preparing a Traffic Impact Study. The TIS shall address traffic routes for over size and over mass vehicles.
- The RTA would have concerns with any arrangements during construction which relied on at grade right turn movements from or to the Hume Highway or Federal Highway. This issue should be addressed in the TIS.
- The applicant should identify suitable infrastructure required to ameliorate any traffic impacts and safety impacts associated with the development.
- The RTA strongly recommends that the developer considers the environmental impacts of any proposed roadworks as part of the Statement of Environmental Effects. If these impacts are not considered, then the RTA would require the applicant to provide a separate environmental impact assessment, a 'Review of Environmental Factors' prior to commencing any works that were conditioned as requirements of the development

Note: The RTA has a responsibility to ensure that all environmental impacts are considered to the fullest extent possible under Section 111 of the Environmental Planning and Assessment Act.

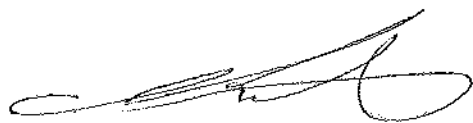
Roads and Traffic Authority

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Level 4, 90 Crown St Wollongong NSW 2500  
PO Box 477 Wollongong NSW 2520 DX 5178 Wollongong  
www.rta.nsw.gov.au | 02 4221 2460

The RTA will commence its detailed assessment once the aforementioned information is provided to its satisfaction. Should you require any clarification on this matter please call Tim Webster on 4221 2769.

Yours faithfully

A handwritten signature in black ink, appearing to read 'Adam Berry', with a large, stylized flourish at the end.

Adam Berry  
Manager, Road Safety and Traffic Management  
Southern Operations and Engineering Services

CC Upper Lachlan Shire Council via email  
CC Department of Planning via email

**Kate Masters - Collector Wind Farm - Request for Environmental Assessment Requirements  
(Application Reference MP 10\_0156)**

---

**From:** "Tattam, Steve" <steve.tattam@AirservicesAustralia.com>  
**To:** <kate.masters@planning.nsw.gov.au>  
**Date:** 23/09/2010 1:29 PM  
**Subject:** Collector Wind Farm - Request for Environmental Assessment Requirements  
(Application Reference MP 10\_0156)  
**CC:** "Sloan, Mitchell" <Mitchell.Sloan@AirservicesAustralia.com>  
**Attachments:** Wind\_Farm\_Location\_Data\_Template.xls

---

Dear Kate,

I refer to Neville Osborne's letter dated 21 September 2010 on the subject of Collector Wind Farm – request for Environmental Assessment Requirements sent to Mitchell Sloan – Airport Relations, Airservices Australia.

Airservices will seek to assess any potential impact that Wind farms may have on aviation in relation to actual location and height of each turbine. Below are some points on the type of information we request in order to carry out an Airservices assessment accurately on develops in the vicinity of aerodromes:

Site Plans with approximate location of the proposed activity or activities (received thank you).

Detailed drawings including:

- Exact dimensions of article.
- **Maximum heights in AHD (Australian Height Datum)** and above ground height for all structures (tip of blade at highest rotation point).
- The exact location of the development including coordinates and datum used for each structure extracted by survey:
  - **Accurate Coordinates in latitude/longitude (Degrees, Minutes, Seconds)**
  - **Datum – WGS84**
- A description of each structure to be built, including details of proposed external cladding materials, and the structure's proposed use (in this case, wind monitoring mast or wind turbine).
- Where possible, MicroStation.dgn files (or AutoCAD).

Attached is an example spreadsheet template for the purpose of recording accurate turbine assembly locator data that can be filled in when that information is available.

Airservices will be assessing if or how this development may impact on approach/departure procedures, radars that service that area and operability of the NavAids that are located in this region. It is for this reason that accurate coordinates and max height data (AHD) is required for **each** turbine location. Please allow for approximately 8 weeks for Airservices assessments to be finalised.

Any query on obstruction lighting would need to be facilitated by CASA.

Kind Regards,

**Steve Tattam**

**Airport Relations/Industry Relations  
Corporate & International Affairs  
Airservices Australia  
GPO Box 367, Canberra, ACT, 2601**

Secretariat to ASTRA - <http://www.astra.aero/>

| P 02 6268 4891 | M 0402 776 524 | E [steve.tattam@airservicesaustralia.com](mailto:steve.tattam@airservicesaustralia.com) | W <http://www.airservicesaustralia.com> |

**CAUTION: This e-mail is confidential. If you are not the intended recipient, you must not disclose or use the information contained in it. If you have received this e-mail in error, please tell us immediately by return e-mail and delete the document. Airservices Australia does not represent, warrant or guarantee that the integrity of this communication is free of errors, virus or interference.**

# Wind Farm

Coordinate System: WGS84 Preferred

Wind Farm Name:						
Turbine ID	EAST	NORTH	Blade tip Elevation (AHD)	Turbine Height	Blade	Total Height
1						
2						
3						
4						
5						
6						
7						
8						
9						
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11						
12						
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Together We're Making a Difference

LACHLAN CATCHMENT  
MANAGEMENT AUTHORITY

2 Sherriff Street

FORBES NSW 2871

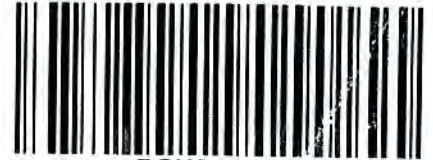
P (02) 6851 9500 F (02) 6851 6991

Thursday, 1st October, 2010

Ref: 10/02379

Attention: Kate Masters

Neville Osborne  
NSW Dept Planning  
GPO Box 39  
Sydney NSW 2001



PCU016169

Dear Neville,

**Re: Collector Wind Farm – Request for Environmental Assessment Requirements (Application Reference MP 10\_0156)**


The Lachlan Catchment Management Authority (Lachlan CMA) would like to thank the NSW Dept Planning for the opportunity to review the Natural Resource Management (NRM) in the Environment Assessment (EA) for the Collector Wind Farm development.

The overall objectives of the Preliminary Environmental Assessment will complement the objectives of the Lachlan Catchment Action Plan management targets for Land, Water, Community and Biodiversity if:

- Environmentally Sensitivity Area Mapping (ESA) is used to assist in the development of new Land Use Strategies, Development Control Plans and Local Environment Plans that incorporate sustainable NRM principles that identify and adequately protect key areas in the Upper Lachlan Shire.
- Consultation of the environmental sensitivity mapping layers (held by Upper Lachlan Shire Council) is advised and will indicate areas of concern that need to be addresses within the EA. They provide a high level mapping/planning framework to manage development in environmentally sensitive areas and are likely to lead to improved management of natural resources within the proposed development site.
- The Lachlan CMA supports the provisions for conservation of Biodiversity, Land, Riparian areas and Flood liable land in the EA.
- The Lachlan CMA suggest that an Operation Management Plan accompany the EA to address (during and post construction) access road and traffic plan, promotion of ground cover, protection of native vegetation and biodiversity, soil degradatation issues, fauna impact study and water quality.

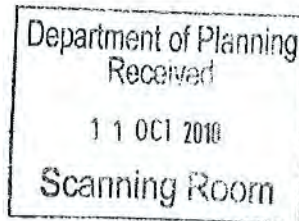
Casey Proctor, the Lachlan CMA Local Government Officer is available to discuss all aspect of this response, and can be contacted during business hours on: 02 63419318 or [casey.proctor@cma.nsw.gov.au](mailto:casey.proctor@cma.nsw.gov.au)

Yours sincerely



Chris Glennon  
General Manager,  
Lachlan CMA





Greg Bugden  
General Manager  
Murrumbidgee CMA  
PO Box 5224  
WAGGA WAGGA NSW 2650

6 October 2010

Neville Osborne  
Manager – Water and Energy  
Infrastructure Project  
GPO Box 39  
SYDNEY NSW 2001

Our Ref: A453599  
Your Ref: 10/02379

Dear Sir

**RE: Collector Wind Farm – Request for Environmental Assessment Requirements (Application Reference 10\_0156)**

I refer to your correspondence dated 21 September 2010 requesting comment from the Murrumbidgee Catchment Management Authority (CMA) for the environmental assessment of the proposed development.

The Murrumbidgee CMA understands that the proposal will be assessed under Part 3a of the EP&A Act and as such any clearing is excluded from the Native Vegetation Act 2003 as it is assessed through the environmental impact assessment process.

However, the Murrumbidgee CMA would like to ensure the following matters are addressed in terms of native vegetation management within the Murrumbidgee Catchment.

**Catchment Action Plan**

Any clearing should be consistent with the Murrumbidgee CMA's Catchment Action Plan and should avoid clearing of those vegetation communities that have been over-cleared. Information about our Catchment Action Plan can be found on our website on [www.murrumbidgee.cma.nsw.gov.au](http://www.murrumbidgee.cma.nsw.gov.au).

**Biodiversity**

The Murrumbidgee CMA concurs with the key assessment requirements for the flora and fauna assessments to be included in the Environmental assessment. However would like to be provided with more detail on the methodology to be used in the undertaking of these assessments. This is to determine if the "improve or maintain" principles are likely to be met.

Clearing should be avoided and/or minimised wherever possible and consideration be given to alternative cleared sites / locations. Consideration should be given to whether the vegetation is highly modified and if it



**Murrumbidgee**

CATCHMENT MANAGEMENT AUTHORITY

is not highly modified, whether the vegetation is in an over-cleared landscape (Based on the Mitchell landscapes) or is of a vegetation type that is over-cleared. Consideration should be given to the impact on connectivity particularly in fragmented landscapes such as the South West Slopes.

To offset any impacts of clearing consideration should be given to rehabilitating the landscape through revegetation activities that will also ensure minimal impact on soil erosion and water quality.

#### **Threatened Populations, Endangered Communities and Threatened Species Habitat**

Consideration should be given to any threatened communities and threatened species habitat. Endangered Ecological communities such as the Yellow Box – White Box- Blakelys Red Gum Woodland. Similarly threatened species habitat should be assessed and avoid any unnecessary clearing. Threatened Populations, Endangered Communities and Threatened Species Habitat should be assessed using the eight part test under Section 5A of the EP&A Act. The Department of Environment, Climate Change and Water can provide a list of threatened species that require full consideration.

#### **Soil and Water Erosion**

The impact of clearing on land degradation requires an assessment of the land and soil capability determined by the occurrence of specific land and soil hazards such as the potential for wind and water erosion, dryland salinity, shallow soils, rockiness and soil structure.

#### **Water Quality and Salinity**

An assessment should be carried out to determine whether clearing is likely to create a salinity risk. Information on rainfall, soil type, landscape position, slope, vegetation cover, groundwater salinity and soil salinity will assist in this determination.

Riparian buffers should be considered when clearing is close to streams, creeks, wetlands and rivers to protect water quality. The Murrumbidgee CMA recommends buffer distance of 20 metres from the bank of minor streams, 40m from minor creeks, 60m from minor rivers and wetlands and 100m from major rivers and important wetlands.

The Murrumbidgee CMA would be happy to provide you with comments on any draft environmental assessments or provide further advice in relation to native vegetation management.

Thank you for providing the Murrumbidgee CMA with an opportunity to comment on this proposal. Should you require any further clarification you can contact me at Wagga Wagga on Tel: 02 6932 3233.

Yours sincerely

A handwritten signature in black ink, appearing to read 'Greg Bugden', is written over a printed name and title.

Greg Bugden  
General Manager

Murrumbidgee Catchment Management Authority