




Operation Environmental Management Plan

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Details of Revision Amendments



Operation Environmental Management Plan

Document Control

The latest approved version of this Document will be available for all personnel on the CWPAM Confluence Space. The Head of Construction and Asset Management (HOCAM) will maintain, review and update this Document in accordance with the Records & Documents Procedure.

Amendments

Each new revision to the Document will be distributed to all required personnel for review and approval.

The revision number is included at the end of the document number, which is noted in the footer of each page. The document will be allocated a new revision number each time a change is made to the document and changes will be in red for easy reference.

When a new revision to the document is available, a notification email will be distributed to all personnel by the Head of Construction and Asset Management advising of the update.

The Head of Construction and Asset Management is responsible for the implementation and review of the Document. The Head of Construction and Asset Management will approve new revisions of the Document via the review and approval process a detailed in the Records & Documents Procedure.

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1. Overview

This document describes SWF's processes in place to assist in ensuring compliance with all relevant environmental legislation and respective approval and consent conditions. This plan is for use by all workers and their supervisors and managers (including contractors).

2. Background

2.1 Project Description

2.1.1 Location

Sapphire Wind Farm (the Facility) is located 30km east of Inverell and 20km west of Glen Innes, in northern NSW. The Facility consists of 75 Vestas V126-3.6 WTG, installed on 136 metre towers plus associated BOP. The total nameplate capacity of the Facility is 270MW.

The wind turbines are located on moderate-to-high elevation (870 to 1170m above sea level, Australian Height Datum), across two clusters being the Sapphire and Swan Vale clusters.

2.1.2 Operation Activities

CWPAM is contracted by Sapphire Wind Farm (SWF), the Facility owner, to carry out the asset management services for the Facility, including the management of the operational wind farm. TransGrid will own and manage the operation of the SWF Substation.

Vestas is contracted by SWF to maintain the wind turbines that comprise the Facility. TransGrid will maintain the Substation. Maintenance of the BOP will be undertaken by various sub-contractors, managed by CWPAM including roads, hardstands, met masts and 33kV underground and overhead cabling.

The primary purpose of the wind farm is the generation of electricity. Each wind turbine will generate electricity at a power level determined by the wind speed and wind direction.

Activities on site are associated with the ongoing maintenance of the wind turbines, the Substation and the associated electrical and civil infrastructure. This will include maintenance works for the roads, hardstands, drainage systems, fences and gates.

The wind farm will be operated from the Site Offices in the Service Compound and control room in the Substation. Except when where major repairs are being undertaken Site maintenance activity will generally be undertaken by light vehicles and the occasional delivery truck for spare parts.

When major repairs are required, equipment such as large cranes and trucks will be brought onto site.

2.1.3 Scheduling

The Facility is being constructed in three blocks as shown in Table 1. The blocks will energise progressively as such this OEMP will be progressively implemented. At the completion of construction by the EPC Contractor a full handover of the Facility to the operators, CWP Asset Management Pty Ltd (CWPAM), will occur.

Table 1

Block	Collector Group	WTG ID	OEMP Operational Date
1	1,2,3	1 - 28	1 May 2018
2	4,5,6,7	29 - 62	17 August 2018
3	8	63 - 75	29 September 2018

2.2 Context

The OEMP is a requirement pursuant to Condition F 18 of the NSW Minister for Planning's CoA which states:

"F18. Prior to the commencement of operation, or as otherwise agreed by the Secretary, the Proponent shall prepare and implement (following approval) an Operation Environmental Management Plan for the project. The Plan shall outline the environmental management practices and procedures that are to be followed during operation, and shall be prepared in consultation with relevant agencies and in accordance with the Guideline for the Preparation of Environmental Management Plans (Department of Infrastructure, Planning and Natural Resources, 2004). The Plan shall include, but not necessarily be limited to:

- *a description of activities to be undertaken during operation of the project (including staging and scheduling);*
- *statutory and other obligations that the Proponent is required to fulfil during operation, including approval/consents, consultations and agreements required from authorities and other stakeholders under key legislation and policies;*
- *overall environmental policies, guidelines and principles to be applied to the operation of the project;*
- *a description of the roles and responsibilities for relevant employees involved in the operation of the project, including relevant training and induction provisions for ensuring that employees are aware of their environmental and compliance obligations under these conditions of approval;*
- *an environmental risk analysis to identify the key environmental performance issues associated with the operation phase;*
- *details of how environmental performance would be managed and monitored to meet acceptable outcomes, including what actions will be taken to address identified potential adverse environmental impacts, including those safeguards and mitigation measures detailed in the EA (and any impacts arising from the staging of the construction of the project); and*
- *details of how sector management would be used to ensure that operational noise criteria are not exceeded."*

This OEMP addresses the following matters:

1. CoA issued by NSW Minister for Planning pursuant to the EP&A Act;
2. CoA issued by the Federal Minister for Environment pursuant to the EPBC Act;
3. Requirements within the EPL as issued by the NSW EPA pursuant to the POEO Act; and
4. Commitments contained within the Statement of Commitments which originally formed part of the Environmental Assessment and development application for the Facility.

A full list of the CoA, EPL requirements and commitments relevant to the operations phase of the Facility can be found in attachment 2 Operational Conditions of Approval, including a table detailing where each item has been addressed in the OEMP.

This OEMP has been prepared in line with *Guideline for the Preparation of Environmental Management Plans* (DIPNR 2004) and is consistent with the Construction Environmental Management Plan (CEMP) November 2016 and the associated sub-plans for the Facility.

A full list of Environmental Legislation and Regulatory Requirements is provided in 6.1 Environmental Legislation and Regulatory Requirements detailing the applicability of each requirement to the Facility.

2.3 Objectives

The objectives listed below have been generated in consideration of the aspects specific to SWF. These include but are not limited to: management, specific site features, operations and industry standard practice.

- Comply with relevant environmental laws, regulations and industry codes of practice;
- Establish, measure, report and review environmental objectives, key performance indicators and targets;
- Maintain an environmental management system that confirms our NSW Conditions of Approval, Environmental Protection Licence and Federal EPBC Approval
- Control the impact of our operations on the environment and community through effective planning and risk management strategies;
- Communicate environmental responsibilities and obligations to employees, contractors, consultants and visitors and provide appropriate induction;
- Establish and maintain a program for the continual improvement of the environmental management systems and environmental performance;
- Use resources and energy efficiently, minimise waste, emissions and pollution from our activities; and
- Engage, consult and communicate with employees, contractors, visitors and the community to build a shared commitment to ongoing environmental improvement.

2.4 Environmental Policy

The SWF Environmental Policy is a fundamental element of this OEMP and is integral to everything that SWF and its contractors do. The Environmental Policy is available on the SWF document management system, displayed in a prominent location in the Service Compound and forms a component of the Site Induction training.

Please see section 6.3 Referenced Documents for the Environmental Policy.

3. Environmental Management

3.1 Environmental Management Structure & Responsibility

3.1.1 Organisational Chart

SWF does not maintain its own employees. The management of the business is overseen by a directorship, engaged through the SWF owners, and through third party contracted services. The primary party responsible for the management of SWF is CWP Asset Management Pty Ltd (CWPAM) contracted under an asset management agreement. The following diagram describes the relationship between all stakeholders involved in the facility.

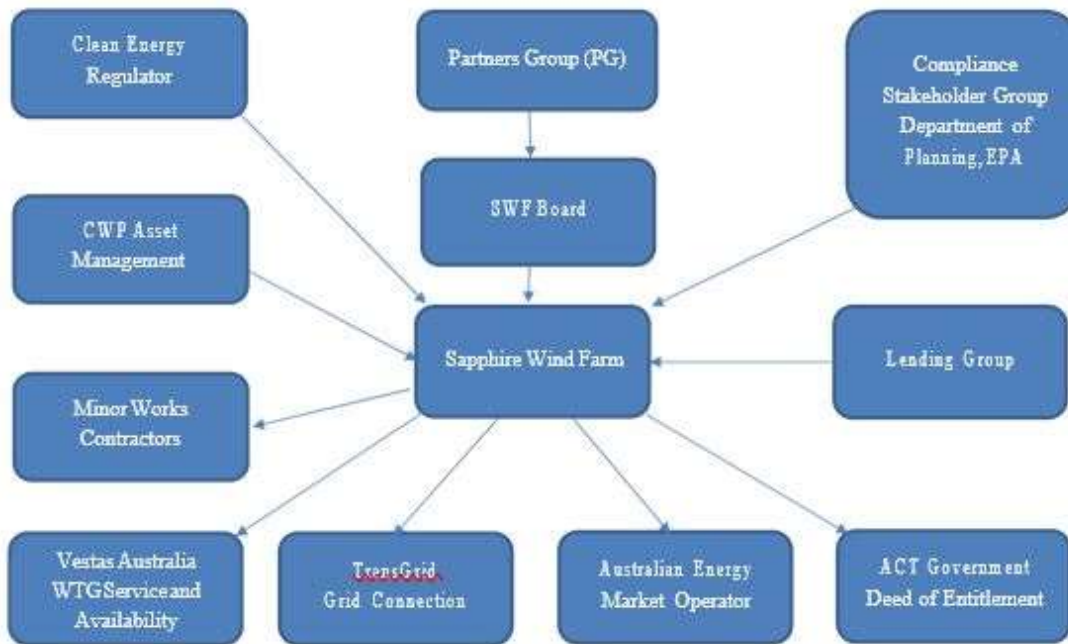


Figure 1: SWF Organisational Chart

3.1.2 Roles & Responsibilities

Asset Manager

CWPAM have appointed the Asset Manager with the primary responsibility for the overall management of the Facility. The Asset Manager is responsible for implementing the OEMP at a Corporate level and will have primary responsibility for:

1. Ensuring that environmental audits, both internal and external, and management reviews are undertaken as defined in this OEMP;
2. Ensuring that corrective actions are undertaken;
3. Implementation of environmental practices as defined in the OEMP;
4. Ensuring that the Facility risk register is established, reviewed and maintained;
5. Ensuring that the required training for all Facility personnel is undertaken;
6. Appointment of a Facility Manager to oversee day to day operations of the Facility;
7. Promoting the reporting of incidents, near misses, hazards, non-conformances, system improvements and customer complaints and ensuring that corrective actions are implemented in a timely manner; and
8. Reporting the Facility environmental status and environmental incidents to SWF.

Facility Manager

CWPAM has appointed the Facility Manager to have primary responsibility for the day-to-day management of the Site, including coordinating the execution of all services in accordance with the requirements and policies established by SWF. The Facility Manager is responsible for implementing the OEMP at the Site.

Specific responsibilities include:

1. Undertakes day to day management / compliance with the Facility environmental requirements and policies;
2. Reports to the Asset Manager;
3. Implementation of environmental practices as defined in the OEMP;
4. Overseeing Site operations in compliance with the OEMP and ensuring environmental records are maintained, and available upon request to Government agencies;
5. Reviewing and participating in environmental incident investigations and nominated corrective measures;
6. Attending relevant environmental meetings, consultative forums and audits pertaining to environmental matters;
7. Ensuring that all persons (CWPAM and contractors) working on the Site are aware of environmental issues through regular staff meetings and that environmental management is a consistent agenda item;
8. Ensuring that all environmental tasks and checks are undertaken in a timely manner;
9. Ensuring that all persons (CWPAM and contractors) within their area/s of control receive appropriate training to perform their work in a safe, legal and competent manner including Site Inductions;
10. Reviewing Facility Work Method Statements (WMSs) for adequacy and approving / rejecting the supplied WMSs prior to use on Site;
11. Ensuring that safe equipment and plant is provided and maintained;
12. Ensuring the renewal of environmental licences and permits as required for continued operation;
13. Ensuring that any identified Hazardous Substances and/or Dangerous Goods are managed; and
14. Ensuring that all contractors operating on Site are operating within SWF environmental processes.
15. Represents SWF on the Committee that allocates the community benefit fund;
16. Representation of SWF at local events such as rural shows and sporting events.

Environment Manager

CWPAM has appointed the Environment Manager to have primary responsibility for environmental matters. This person will be responsible for:

1. Ensuring compliance of environmental obligations pursuant Conditions of Approval MP09_0093, EPL 20848, EPBC 2011/5854 and the OEMP;
2. Implementation of environmental practices as defined in the OEMP;
3. Manage the implementation of the Bird and Bat Adaptive Management Plan;
4. Management of the implementation of internal and external audits and participation in reviews and implementation of corrective actions;
5. Initiation and management of environmental reviews with the Environmental Representative (ER);
6. Ensuring that environmental responsibilities and accountabilities have been defined and communicated to contractors engaged within their area/s of control;
7. Prepare Environmental Safe Work Method Statements;
8. Liaison with relevant regulatory authorities and stakeholders as required;
9. Regular monitoring of environmental performance & compliance;
10. Ensuring that the OEMP is reviewed, maintained and any changes communicated to Site personnel over the life of the Facility;
11. Support of the Facility Manager and site staff to ensure environmental works are carried out in accordance with the OEMP;
12. Investigation of notifiable environmental incidents;
13. Maintaining the public web site with information on the Facility;
14. Inform the local community regarding major activities on Site;
15. Organisation of the Community Consultative Committee meetings; and
16. Drafting and coordination of media releases related to the Facility.

Environmental Representative

The Environmental Representative (ER) is appointed in accordance with the provisions of CoA **Condition E20**. The ER is independent specialist who is appointed by the Secretary of Planning. They are not a member of the design, construction and operational team.

Condition E20 states that Environmental Representative(s) shall:

- a) be the principal point of advice in relation to the environmental performance of the project;
- b) monitor the implementation of environmental management plans and monitoring programs required under this approval and advise the Proponent upon the achievement of these plans/ programs;
- c) have responsibility for considering and advising the Proponent on matters specified in the conditions of this approval, and other licences and consents related to the environmental performance and impacts of the project;
- d) ensure that environmental auditing is undertaken in accordance with the project's Environmental Management System(s);
- e) be given the authority to approve/ reject minor amendments to the Construction Environmental Management Plan. What constitutes a "minor" amendment shall be clearly explained in the Construction Environmental Management Plan required under **Condition E21**;
- f) be given the authority and independence to require reasonable and feasible steps be taken to avoid or minimise unintended or adverse environmental impacts, and failing the effectiveness of such steps, to direct that relevant actions cease immediately until the issue is resolved should an adverse impact on the environment be likely to occur; and
- g) be consulted in responding to the community concerning the environmental performance of the project where the resolution of points of conflict between the Proponent and the community is required.

Site Staff

In addition to CWPAM employees on the Site, other staff working on the Site include the employees and sub-contractors of the WTG Maintenance Contractor, who have responsibility for the maintenance of the WTG. As these parties are operating under long term and pre-established contracts, they are collectively considered to all be Site Staff.

Site Staff responsibilities will include:

1. Immediately ceasing, and reporting, any workplace activity (including that of other persons) which presents an immediate risk to the environment;
2. Where possible, taking immediate steps to control identified hazards in the workplace;
3. Working in a safe manner without risk to themselves, others or the environment;
4. Complying with the OEMP, including all WMSs;
5. Reporting any faulty plant or equipment to the Facility Manager immediately;
6. Complying with Site rules;
7. Complying with emergency and evacuation procedures;
8. Reporting all incidents, near misses and hazards to the Facility Manager immediately;
9. Ensuring full compliance with instruction & training provided by CWPAM or their own employer;
10. Participation in toolbox meetings & training programs relating to environment;
11. Participation in incident investigations, risk assessments, inspections and audits as required by CWPAM;
12. Use of equipment provided to reduce environmental hazards or emissions; and
13. Contributing to the overall goal for zero environmental impacts and incidents by making suggestions for improvement where identified.

Subcontractors

SWF will employ a small local pool of subcontractors for minor maintenance works, primarily civil contractors and consultants engaged on technical and compliance matters.

Where engaged, these subcontractors will be required to:

1. Undertake Site Inductions and comply with all aspects of this OEMP and all associated compliance documents, permits, procedures and standards;
2. Conduct risk assessments and provide SWMS to CWPAM and obtain approval prior to commencement of works;
3. Identify all hazardous substances (contained within SDS) proposed for use on the Site;
4. Provide other environmental related data as part of the WMS process as defined by this OEMP;
5. Attend Site meetings when requested;
6. Report, investigate and implement corrective measures arising from associated environmental incidents associated with their work; and
7. Attend environmental training and awareness sessions where relevant to their work;

Consultants

As required SWF will employ suitably qualified professional consultants to undertake a range of activities that are either independent in nature or require a level of expertise that SWF does not have in house.

Such activities may include:

1. Undertake Operational Performance Audit as outlined in **Condition D8** of the CoA
2. Undertake monitoring of revegetated areas as outlined in **Condition F5** of CoA
3. Undertake actions specific to Bird and Bat Adaptive Management Plan
4. Undertake noise monitoring as outlined in EPL **Condition L3**
5. Undertake action pursuant to EPBC **Condition 4**

If working alone or making multiple visits to site then Consultant's will be required to undertake a full site induction. They will sign the Site Attendance Log Book prior to leaving the site compound.

Visitors

All visitors will undergo a Visitor Induction covering their environmental and safety obligations. Once completed they will be to acknowledge their understanding of the induction by signing the Site Attendance Log Book.

3.2 Approval and Licencing Requirements

3.2.1 Legal & Regulatory Requirements

Legal and regulatory requirements are described in table format within section 6.1 Environmental Legislation and Regulatory Requirements.

3.2.2 Address of Approvals & or Consents

Section 6.2 Operational Conditions of Approval contains a table mapping the location of which each condition of approval and or consent has been addressed within this OEMP.

3.2.3 Licence & Permit Renewals

Responsibilities for obtaining and or renewing licences and permit as required are listed within section 3.1.2 Roles & Responsibilities, Facility Manager.

3.3 Reporting

As a requirement of the EPL, SWF must supply an *Annual Return* to the EPA each year. The Annual Return comprises:

1. Statement of Compliance,
2. Monitoring and Complaints Summary,
3. Statement of Compliance - Licence Conditions,
4. Statement of Compliance - Load based Fee,
5. Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,

6. Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
7. Statement of Compliance - Environmental Management Systems and Practices.

Annual Return and Monitoring Report due dates are noted in the Facility Calendar and are to be undertaken in the manner as directed by the EPA.

3.4 Environmental Training

All Site Staff, subcontractors and consultants will be required to undergo a comprehensive Site Induction which will include information on the environmental practices for the Site.

The Site Induction Package will include information on:

- An outline of the OEMP structure;
- Key environmental risks and requirements;
- The roles and responsibilities of Site Staff, subcontractors and consultants in relation to environmental management; and
- An outline of the process for recording Environmental Incidents.

There will be an assessment at the end of the Site Induction to ensure the key items are understood.

Additionally, training will be provided to all Site Staff to ensure that they are aware of environmental issues. Where required, staff will be trained in specific areas related to their work, including proper use of tools and equipment.

3.5 Emergency Contacts and Response

3.5.1 Environmental Incidents

The Incident Reporting & Investigation Procedure and Pollution Incident Response Management Plan are to be followed in the event of an environmental incident. The documents are accessible to all Site Staff on the SWF document management system.

1. The Asset Manager and Facility Manager are to be informed as soon as reasonably possible of an environmental incident occurring via phone or email.
2. Serious environmental incidents as defined under Section 147 of the PEOA are to be reported to the Asset Manager, Environment Manager and Facility Manager via telephone or email immediately. The Environment Manager will undertake reporting pursuant to **Section 148** of the PEOA within the statutory notification period, determine the need for and timing of any regulatory reporting required, and undertake such reporting.
3. In accordance with the provisions of CoA **Condition D6** the Environmental Manager will notify the Secretary for Planning within 24 hours of becoming aware of any incident with actual or potential significant off-site impacts on people or the biophysical environment. The Environmental Manager will provide full written details of the incident to the Secretary within seven days of the date on which the incident occurred
4. Incidents causing or threatening material harm to the environment are to be reported to the relevant authorities immediately by the Environment Manager in accordance with the requirements of Part 5.7 of the POEO Act (**R2.1** of the EPL).
5. Written details on the above notification are to be provided to the EPA within 7 days of the date on which the incident occurred (**R2.2** of the EPL).

An environment incidents register is maintained on the SWF document management system; Incident Register. Incident forms are to be completed and logged in the incident register. All Site personnel are required to use this process to report incidents.

The Asset Manager and Environment Manager maintain an automated watch on the register for new or changed entries.

Where applicable to the incident, emergency response plans for hazardous substance spills, major erosion, and bushfire as defined in this OEMP will be engaged.

Where an incident occurs as defined in the POEO Act the relevant local authorities, State and Commonwealth authorities will be notified. Licence holders are required to report pollution incidents immediately (this means without delay) to all of the appropriate regulatory authorities.

These appropriate regulatory authorities are the:

- Environment Protection Authority
- WorkCover NSW
- Inverell Shire Council;
- Fire and Rescue NSW; and
- Ministry of Health.

3.5.2 Pollution Incident Response Management Plan

SWF maintains an up to date Pollution Incident Response Management Plan that considers operational aspects. The key elements of the plan include:

- Names and contact details for emergency response personnel
- Contact details for emergency services
- Location of onsite information regarding hazardous material
- Steps to follow to minimise damage and control an environmental emergency
- Instructions and contact details for notifying relevant stakeholders

The Pollution Incident Response Management Plan is tested once a year prior to the anniversary date of the EPL. Lessons learnt as a result of the testing may influence plan updates.

3.6 Complaints

Complaints can be received from a number of sources including:

- via the Facility website <http://sapphirewindfarm.com.au/>;
- via the complaints 24/7 hotline (see website for number);
- via email (see website for address); or
- direct to the Facility Manager using published and displayed phone numbers.

An advertisement will be placed in local newspapers every year during the operations phase to communicate the website address, email, postal address and telephone number for complaints. The same information will also be

provided on signage, clearly visible on public roads, nearest to all the entry points on Waterloo Road and Western Feeder Road.

All complaints, including environmental complaints, are recorded on the Feedback and Complaints Register. This register is maintained as an online database and allows for the upload of evidence of the complaint received and any actions taken in response. Fields in the register include:

- Date and time of complaint;
- Method of contact (i.e. phone, mail, email, website);
- Complainant name and contact details;
- Nature of complaint;
- Details of complaint;
- Person receiving complaint;
- Action taken;
- Is this issue considered closed; and
- Signoff for closure.
-

When complaints are received and relate to environmental issues, Feedback and Complaints Procedure will be followed, as summarised here:

1. Complaints are registered on Feedback and Complaints Register;
2. The Facility Manager is notified and if of a serious nature will inform the Environment Manager, Asset Manager and SWF within 24 hours and log the matter as an incident;
3. The complaint is responded to by an appropriate staff member which may include modification of operational techniques to avoid recurrence or to minimise ongoing adverse impacts;
4. The complainant will be modified of the actions taken;
5. The outcome of the complaint is documented on the register and appropriate staff members will be notified of the outcome by email; and
6. Activity will continue to be modified, if required.

3.7 Safety Management System

SWF Safety Management System has been developed in consideration of the operations specific Work Health & Safety risk profile. The safety management system includes but is not limited to:

- Procedures and programs for the maintenance of safety related equipment to ensure its integrity over the life of the project;
- Procedures and programs for the testing of safety related equipment to ensure its integrity over the life of the project and
- Documented change and risk management procedures.

SWF Safety Management System has been developed in accordance with the Department of Planning and Environment Hazardous Industry Planning Advisory Paper No. 9, 'Safety Management.

3.8 Additional Commitments

In accordance with consent approvals, SWF shall:

- Provide a finalised turbine layout and infrastructure map, including turbine co-ordinates, to all stakeholders following completion of the construction of the wind farm.
- Allow surveying in and around the Project area during the operation phase of the Project
- Prior to the commencement of operations, the Proponent shall:
 - consult further with CASA about the need for aviation hazard lighting; and
 - ensure that any aviation lighting that is needed complies with CASA's requirements.

In addition, SWF acknowledges that exploration activity can take place during the operational phase of the Project in agreement with landowner and wind farm operator as per Section 62 of Mining Act 1992.

4. Implementation

4.1 Risk Assessment, Management & Control

The Facility maintains an Environmental Risk Management Procedure. Facility risks are reviewed at least annually or as required based on events, legislative changes and project updates. Risks that relate to environmental issues are detailed and maintained in SWF Environmental Risk Register. Section 6.5 Risk Assessment Methodology provides information on the risk evaluation methods used for the Facility.

4.2 Environmental Control Plans

4.2.1 Control Plans

SWF have detailed a number of risk specific management plans (including mapping where appropriate) for the effective management of site specific environmental aspects. These management plans are to be regarded

The below list outlines the most relevant control plans:

- Soil & Water
- Flora & Fauna
- Landscape & Rehabilitation
- Cultural Heritage
- Air Quality
- Traffic
- Community Engagement
- Emergency Response
- Noise & Vibration
- Waste
- Electromagnetic Interference
- Bird & Bat Adaptive

4.3 Environmental Schedules

SWF has a number of environmental schedules that are utilised by site personnel to assist in the efficient and effective management of environmental aspects related to operations. These include the following:

- Site inspection Checklist
- Monitoring Checklist
- Corrective Action Request
- Complaints Report
- Incident Report
- Environmental Registers

All documents listed above are readily available at the site office.

5. Monitoring & Review

5.1 Monitoring

The Facility & Environmental Managers will monitor the environmental performance of the SWF in consideration of compliance with the OEMP.

Regular inspections of Site activities and environmental performance will be undertaken by the Environment Manager, the Facility Manager (and or their delegates) and the managers of both Vestas and TransGrid or their delegates. Site inspections will be recorded on a Site Inspection Checklist.

Completed checklists will be recorded and stored appropriately, along with any investigative reports that may arise out of a matter identified during inspection.

The effectiveness of the inspections will be reviewed as part of the SWF internal management review and where necessary, the level, scope and timing of inspections will be improved through the life of the Facility to achieve the required environmental performance.

5.2 Auditing

Within fifteen months of the commencement of operations the Facility will be subject to an independent Operational Performance Audit. The areas to be covered by the Audit are outlined in CoA **Condition D8** which states:

“D8. Within fifteen months of the commencement of operation, and at any other time required by the Secretary, the Proponent shall commission an independent qualified person or team to undertake an Operational Performance Audit of the project. The independent person or team shall be approved by the Secretary prior to the commencement of the Audit. The Operational Performance Audit Report shall be submitted to the Secretary within one month of the completion of the Audit, unless otherwise agreed by the Secretary. The Audit shall:

- *assess compliance with the requirements of this approval, and other licences and approvals that apply to the project;*
- *assess the operational performance of the project against the aims and objectives for the project specified in the documents referred to under **Condition B1** of this approval;*
- *assess the environmental performance of the project against the predictions made and conclusions drawn in the documents referred to under **Condition B1** this approval; and*
- *review the effectiveness of the environmental management of the project, including any environmental impact mitigation works.*

The Audit will be undertaken by an independent person or team commissioned by SWF and approved by the Secretary of Planning.

Audits will be conducted in accordance with ISO 19011:2003 - Guidelines for Quality and/or Environmental Management Systems Auditing.”

The audit report will be provided to DPE a copy of the Audit report will be available on request from Sapphire Wind Farm.

5.3 Corrective Action

Where matters of non-conformance with the Facility planning approval or matters of environmental harm are identified through either inspections, internal audits, external audits or complaints, and it is established through investigation that corrective actions are required to be undertaken, then the item is entered into the Corrective Action Register and a Corrective Action Request (CAR) is generated, in line with the procedure for undertaking corrective actions.

This will ensure that the CAR is tracked and implemented. The CAR should refer to the original complaint, audit or inspection identifier.

Corrective actions are completed by the persons delegated and follow up of CARs is responsibility of the Facility Manager.

5.4 Review

The OEMP will be formally reviewed within five years of the commencement of operation and at least every five years after that. The review will assist to ensure that the OEMP is up to date and that any changes to procedures and corrective actions resulting from incidents, complaints, inspections and audits are included.

The review will be done by the review team comprising a CWPAM Senior Manager, Asset Manager, Facility Manager, Environment Manager and, where relevant to their specific work areas, the managers of both Vestas and TransGrid. The management review process will consider the performance against the OEMP with respect to incident trends and compliance with internal and external environmental standards.

The Conditions of Approval do not provide for a mechanism to amend the OEMP. If the OEMP requires amendment based on the outcomes of the review, then the OEMP will be updated and amended.

In order to remain relevant to operations, the OEMP may require amendment from time to time. Minor changes to the OEMP will be endorsed by the ER, minor amendments are defined as those that do not:

- involve the relaxation, alteration or removal of performance criteria/standards within the project approval;
- allow increase environmental impacts over those predicted in the assessment documentation;
- compromise the ability or intent of the project to comply with the Project Approval Conditions including referenced assessment documentation; or
- increase the likelihood of material environmental harm occurring.
-

A copy of any changes to the OEMP, endorsed by the ER, will be submitted to DPE for its records, or where the ER is unable to approve the change(s) then submitted for approval by the Secretary. All changes made to the OEMP will be subject to document control. It will be the responsibility of the Facility Manager to ensure that any changes to the OEMP are issued to Site Staff, contractors and visitors. Changes to the OEMP will be communicated through:

- toolbox talks to existing onsite personnel;



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- be incorporated into project induction material; and
- placed on the project website for public access

DPE will be provided with a copy of any amended OEMP and the latest version of the OEMP will be uploaded to the Facility website within five business days of approval.

6. Appendices

6.1 Environmental Legislation and Regulatory Requirements

Legislation	Regulating Authority	Applicability to the Facility	Obligations under the legislation
COMMONWEALTH			
Environment Protection and Biodiversity Conservation Act 1999	DEE	Applicable to environmental impacts on Commonwealth land and impacts on matters of national significance.	Commonwealth approval was granted under section 130(1) and 133 of the EPBC Act. CoA applies.
NEW SOUTH WALES			
ENVIRONMENTAL PLANNING			
Environmental Planning and Assessment Act 1979	Local Council DPE OEH NSW RMS	The Facility has been approved under Part 3A of the EP&A Act.	DPE CoA need to be complied with for the Facility. Any modification that is not consistent with the Approval must be approved as a Modification by the DPE.
Protection of the Environmental Operations Amendment (Scheduled Activities) Regulation 2013	EPA	Applicable to wind farms in development, approved, under construction or operational after 1st July 2013	Obligation to obtain Environmental Protection Licence (EPL) and adhere to conditions therein
HERITAGE			
Heritage Act 1977	NSW Heritage Council	Facility exempt under 75(u) of the EP&A Act from needing an Approval under Part 4 or an excavation permit under Section 139 from the NSW Heritage Office.	None
National Parks and Wildlife Act 1974	DPE OEH	Permit under Section 87 (investigation of Aboriginal objects) from OEH.	Facility exempt under 75(u) of the EP&A Act from needing a Section 90 permit. However, personnel will be made aware of responsibilities and procedures under the <i>National Parks and Wildlife Act 1974</i>
WASTE MANAGEMENT			
Waste Avoidance and Resource Recovery Act 2001	EPA OEH	To reduce environmental harm and provide for reduction in waste generation in line with ESD	Objective of the Act incorporated into OEMP (general principle of Avoid, Recover, Reuse, Dispose)

Legislation	Regulating Authority	Applicability to the Facility	Obligations under the legislation
		principles	
CONSERVATION			
National Greenhouse and Energy Reporting Act 2007	OEH	Systems for reporting energy consumption and production data, greenhouse emissions, abatement actions	SWF to determine NGERs reporting requirements for energised facility.
Noxious Weeds Act 1993	LLS	Control noxious weeds on lands under the Projects control, in accordance with relevant control categories (s.13)	Noxious weeds, where identified on the site, must be prevented from spreading and their numbers and distribution reduced (refer to FFMP).
National Parks and Wildlife Act 1974	OEH	Sections 7 and 8 of the NPW Act protect fauna and flora. Native species including flora and fauna, must not be picked up or harmed, except under a relevant license, as detailed in Section 9 of the Act.	No licenses are required; however, personnel will be made aware of responsibilities not to harm native species and procedures in the OEMP developed to meet the requirements of the <i>National Parks and Wildlife Act 1974</i>
National Park and Wildlife Regulation 2002	OEH	Ground excavation and vegetation clearance	Where ground is to be excavated or cleared, it will be assessed by an appropriately qualified and experienced ecologist under an authority of a Scientific License issued under Clause 22 of this regulation
Native Vegetation Act 2003	OEH	The Act is in place to protect native vegetation particularly that of high conservation value, by managing broad scale clearing, revegetation, and rehabilitation of native vegetation.	Approval was granted in accordance with this Act. No clearing of vegetation required for the operation of the Facility.
Threatened Species Conservation Act, 1995	DoE OEH	Facility approved under Part 3A of the EP&A Act. No licences or approvals required under this Act.	None
Fisheries Management Act 1994	NSW Fisheries	Permit under Section 201 from Department of Primary Industries (Dredging and reclamation), 205 (marine vegetation) or 219 (fish passage)	No requirement identified
Water Management Act 2000	DoE OEH NOW	Permits and approvals required for water extraction from natural waterways. Facility exempt under 75(u) of the EP&A Act in relation to Water Use approvals for water extracted from a natural waterway, but still requires a Water Access Licence.	Water Access Licence required for all water extraction. Works Approval and/or Water Supply Approvals may be required if water is to be extracted from a natural waterway.

Legislation	Regulating Authority	Applicability to the Facility	Obligations under the legislation
POLLUTION			
Protection of the Environmental Operations Amendment (Scheduled Activities) Regulation 2013	EPA OEH	Duty to notify the OEH of any environmental harm	The Owner to notify OEH of any actual or potential environmental harm
Dangerous Goods Act (WorkCover – storage licence)	EPA WorkCover	Relates to storage, handling and licensing of storage and/or transport of prescribed quantities of dangerous goods	SWF to obtain licenses where storage of dangerous goods for operation is in licensable quantities
Occupational Health and Safety Regulation 2001	EPA	Relates to the handling and storage of certain dangerous goods identified in the Regulation.	SWF to adhere to regulation in the storage of dangerous goods for operation
Pesticides Act 1999	EPA	<p>The use, supply, preparation and possession of pesticides. Pesticides is a generic term that includes herbicides, fungicides, insecticides, timber preservatives, etc.</p> <p>Note: inappropriate use of pesticides may lead to prosecution under the Protection of the Environment Operations Act 1997.</p>	<p>Use pesticides in an environmentally satisfactory manner.</p> <p>s12 and s13 prohibit the possession and use of an unregistered pesticide without a permit.</p> <p>s14 requires that you read, or have read to you, the label or permit for the pesticide.</p> <p>s15 requires that you use registered pesticide in accordance with instructions on the label.</p> <p>s16 pesticide container must have approved label attached.</p> <p>s17 prohibits the use or possession of any restricted pesticide unless authorised by a certificate of competency or a pesticide control order under the Act.</p> <p>You must comply with pesticide codes of practice.</p>
Pesticides Regulation 2009	EPA	The use, supply, preparation and possession of pesticides and the associated training and record keeping requirements.	<p>An employee must not use a pesticide unless the employee holds a 'prescribed qualification' or a licence under the Act</p> <p>A record must be kept of each occasion a pesticide is used.</p>

Legislation	Regulating Authority	Applicability to the Facility	Obligations under the legislation
			The record must be made in legible writing in English as soon as possible (but must be within 24 hours). The record must be kept for at least 3 years by the person who made the record. The record must contain the specific information.
TRAFFIC			
Roads Act 1993	RMS Inverell Shire Council Glen Innes Sever Bombala Council	Section 138 consent required for erection of a structure, or carrying out of work in, on or over a public road or digging up or disturbance of the surface of the road.	SWF has prepared Traffic Management Plan in consultation with the RMS, Inverell Shire and Glen Innes Severn Council. Road Occupancy Licences will be required from Council and/or RMS where public roads are required to be closed or partly closed to enable works to occur.

6.2 Operational Conditions of Approval

The following table details CoA and commitments that are applicable to environmental management for the *operations phase* of the Facility. The full CoA and commitments are available here:

- NSW State Approval: <http://majorprojects.planning.nsw.gov.au/>
- Statement of Commitments (Chapter 20, Volume 1 of EA): <http://majorprojects.planning.nsw.gov.au/>
- Commonwealth Approval (ref 2011/5854): <http://www.environment.gov.au/epbc>
- EPL (Licence number 20848): <http://www.epa.nsw.gov.au/prpoeoapp/>

Reference	Description	Addressed in OEMP
NSW STATE APPROVAL		
B16	<p>Prior to the commencement of the construction, operation and/or decommissioning of the project, the Proponent shall notify the Department in writing of the date of commencement of the relevant stage. If the construction, operation and/or decommissioning of the project is to be staged, then the Proponent must:</p> <ul style="list-style-type: none"> • notify the Department in writing prior to the commencement of the relevant stage, and clearly identify the development that would be carried out during the relevant stage; and • inform the local community and the Community Consultation Committee (CCC) about the proposed staging plans. 	<p>Section 3.1 Environmental Management Structure & Responsibility</p> <p>Section 0</p> <p>Environmental Management</p> <p>Section 4.2.1 Control Plans</p> <p>Community Engagement Management Plan</p>
C6	<p>Bird and Bat Monitoring and Management.</p> <p>Prior to the commencement of construction, the Proponent shall prepare and submit for the approval of the Secretary a Bird and Bat Adaptive Management Program, which takes into account bird/ bat monitoring methods identified in the current editions of AusWEA Best Practice Guidelines for the Implementation of Wind Energy Projects in Australia and Wind Farm and Birds: Interim Standards for Risk Assessment. The Program shall be prepared and implemented by a suitably qualified expert, approved by the Secretary. The Program shall incorporate Monitoring, and a Decision Matrix that clearly sets out how the Proponent will respond to the outcomes of monitoring. It shall:</p> <ul style="list-style-type: none"> • incorporate an ongoing role for the suitably qualified expert; • set out monitoring requirements in order to assess the impact of the project on bird and bat populations, including details on survey locations, parameters to be measured, frequency of surveys and analyses and reporting. The monitoring program shall be capable of detecting any changes to the population of birds and/ or bats that can reasonably be attributed to the operation of the project, that is, data may be required to be collected prior to the commencement of construction; • incorporate a decision making framework that sets out specific actions and when they may be required to be implemented to 	<p>Section 4.2.1 Control Plans</p> <p>Flora & Fauna Management Plan</p>

Reference	Description	Addressed in OEMP
	<p>reduce any impacts on bird and bat populations that have been identified as a result of the monitoring;</p> <ul style="list-style-type: none"> • identify 'at risk' bird and bat groups, seasons (such as wet seasons where bird species may be attracted to nearby wetlands) and/or areas within the project site which may attract high levels of mortality and include monthly mortality assessments and periodic local population census' and bird utilisation surveys; • identify potential mitigation measures and implementation strategies in order to reduce impacts on birds and bats such as minimising the availability of raptor perches, swift carcass removal, pest control including rabbits, use of deterrents, and sector management including switching off turbines that are predicted to or have had an unacceptable impact on bird/bat mortality at certain times; and • identify matters to be addressed in periodic reports in relation to the outcomes of monitoring, the application of the decision making framework, the mitigation measures identified, progress with the implementation of such measures, and their success. <p>The Reports referred to under part □ shall be submitted to the Secretary and OEH on an annual basis for the first five years of operation and every two years thereafter (unless otherwise agreed to by the Secretary), and shall be prepared within two months of the end of the reporting period. The Secretary may, at the request of the Proponent at anytime, vary the reporting requirement or period by notice in writing to the Proponent.</p> <p>The Proponent is required to implement reasonable and feasible mitigation measures as identified under part □ where the need for further action is identified through the Bird and Bat Adaptive Management Programme, or as otherwise agreed with the Secretary.</p>	
C10	<p>Dangerous goods, as defined by the Australian Dangerous Goods Code, shall be stored and handled strictly in accordance with:</p> <ul style="list-style-type: none"> • all relevant Australian Standards; • for liquids, a minimum bund volume requirement of 110% of the volume of the largest single stored volume within the bund; and • <i>the Environment Protection Manual for Authorised Officers: Bunding and Spill Management, Technical Bulletin</i> (Environment Protection Authority, 1997) 	<p>Section 4.2.1 Control Plans</p> <p>Traffic Management Plan</p> <p>Emergency Response Management Plan</p> <p>Waste Management Plan</p>
C14	<p>The Proponent shall ensure that all project components on site are designed, constructed and operated to minimise ignition risks, provide for asset protection consistent with relevant RFS design guidelines (<i>Planning for Bushfire Protection 2006 and Standards for Asset Protection</i>) and provide for necessary emergency management including appropriate fire-fighting equipment and water supplies on site to respond to a bush fire.</p>	<p>Section 4.2.1 Control Plans</p> <p>Emergency Response Management Plan</p>

Reference	Description	Addressed in OEMP
C13	Should increases to the costs of aerial agricultural spraying on any non-associated property surrounding the site be attributable to the operation of the project, the Proponent shall fully fund to the affected landowner, the reasonable cost difference between pre-construction aerial agricultural spraying and the increased cost, as agreed between the relevant parties.	Section 4.2.1 Control Plans Community Engagement Management Plan
C15	Throughout the operational life of the project, the Proponent shall regularly consult with the local RFS about details of the project, including the construction timetable and the final location of all infrastructure on the site. The Proponent shall comply with any reasonable request of the local RFS to reduce the risk of bushfire and to enable fast access in emergencies.	Section 4.2.1 Control Plans Emergency Response Management Plan
C16	If the project results in the disruption to radio or telecommunications services in the area, then the Proponent shall make good any disruption to these services as soon as practicable following the disruption. If there is a dispute about the mitigation measures to be implemented or the implementation of these mitigation measures, then either party may refer the matter to the Secretary for resolution.	Section 4.2.1 Control Plans Community Engagement Management Plan Electromagnetic Interference Management Plan
C17	Any overhead transmission line associated with the project shall be designed, constructed and operated to minimise the generation of corona and aeolian noise as far as reasonable and feasible at the nearest existing non-associated residences.	Section 4.2.1 Control Plans Community Engagement Management Plan Electromagnetic Interference Management Plan
C20	The Proponent shall ensure that all liquid and/or non-liquid waste generated on the site by the project is assessed and classified in accordance with <i>Waste Classification Guidelines</i> (DECC, 2008), or any future guideline that may supersede that document and where removed from the site is only directed to a waste management facility lawfully permitted to accept the materials	Section 4.2.1 Control Plans Waste Management Plan
C22	Utilities, services and other infrastructure potentially affected by construction and operation shall be identified prior to construction to determine requirements for access to, diversion, protection, and/or support. Consultation with the relevant owner and/or provider of services that are likely to be affected by the project shall be undertaken to make suitable arrangements for access to, diversion, protection, and/or support of the affected infrastructure as required. The cost of any such arrangements shall be borne by the Proponent.	Section 4.2.1 Control Plans Traffic Management Plan Community Engagement Management Plan Electromagnetic Interference Management Plan

Reference	Description	Addressed in OEMP
C29A	<p>Prior to the commencement of operations, the Proponent shall:</p> <p>(a) consult further with CASA about the need for aviation hazard lighting; and</p> <p>(b) ensure that any aviation lighting that is needed complies with CASA's requirements.</p>	<p>Section 0</p> <p>Additional Commitments</p>
D1	<p>The Proponent shall establish and operate a CCC for the project to the satisfaction of the Secretary. This CCC must be established and operated in accordance with any applicable CCC guideline.</p> <p>Notes:</p> <ul style="list-style-type: none"> The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring the Proponent complies with this approval. The CCC should be comprised of an independent chair and appropriate representation from the Proponent, Council and the local community 	<p>Section 4.2.1 Control Plans</p> <p>Community Engagement Management Plan</p>
D2	<p>Complaints and Enquiries Procedure The telephone number, the postal and email addresses shall be published in newspaper(s) circulating in the local area prior to the commencement of construction and prior to the commencement of operation. This information shall also be provided on the website (or dedicated pages) required by this approval.</p>	<p>Section 0</p> <p>Environmental Management</p>
D5	<p>Compliance Tracking Program</p> <p>The Program shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> provisions for the notification of the Secretary prior to the commencement of construction and prior to the commencement of operation of the project (including prior to each stage, where works are being staged); provisions for periodic review of the compliance status of the project against the requirements of this approval; provisions for periodic reporting of compliance status to the Secretary, including a Pre-Construction Compliance Report, during construction reporting, and a Pre-Operation Compliance Report; 	<p>Section 0</p> <p>Environmental Management</p>
D6	<p>The Proponent shall notify the Secretary within 24 hours of becoming aware of any incident with actual or potential significant off-site impacts on people or the biophysical environment. Further, the Proponent shall provide full written details of the incident to the Secretary within seven days of the date on which the incident occurred.</p>	<p>Section 0</p> <p>Environmental Management</p> <p>Section 4.2.1 Control Plans</p> <p>Emergency Response Management Plan</p>
D7	<p>The Proponent shall meet the requirements of the Secretary to address the cause(s) or impacts of any incident, as they relate to this approval, reported in accordance with condition D6 of this approval, within such period as the Secretary may require.</p>	<p>Section 0</p> <p>Environmental Management</p>

Reference	Description	Addressed in OEMP
		Section 4.2.1 Control Plans Emergency Response Management Plan
D8	<p>Operation Performance Audit Report</p> <p>Within fifteen months of the commencement of operation, and at any other time required by the Secretary, the Proponent shall commission an independent qualified person or team to undertake an Operational Performance Audit of the project. The independent person or team shall be approved by the Secretary prior to the commencement of the Audit. The Operational Performance Audit Report shall be submitted to the Secretary within one month of the completion of the Audit, unless otherwise agreed by the Secretary. The Audit shall:</p> <ul style="list-style-type: none"> • assess compliance with the requirements of this approval, and other licences and approvals that apply to the project; • assess the operational performance of the project against the aims and objectives for the project specified in the documents referred to under Condition B1 of this approval; • assess the environmental performance of the project against the predictions made and conclusions drawn in the documents referred to under Condition B1 this approval; and • review the effectiveness of the environmental management of the project, including any environmental impact mitigation works. 	Section 0 Environmental Management
E1	The Proponent shall construct and operate the project in a manner that minimises dust generation from the site, including wind-blown and traffic-generated dust as far as practicable. All project related activities on the site shall be undertaken with the objective of preventing visible emissions of dust from the site. Should visible dust emissions attributable to the project occur during construction and operation, the Proponent shall identify and implement all practicable dust mitigation measures, including cessation of relevant works, as appropriate, such that emissions of visible dust cease.	Section 4.2.1 Control Plans Air Quality Management Plan
E20	<p>Environmental Representative.</p> <p>Prior to the commencement of construction of the project, or as otherwise agreed by the Secretary, the Proponent shall nominate for the approval of the Secretary a suitably qualified and experienced Environmental Representative(s) that is independent of the design, construction and operational personnel. The Proponent shall employ the Environmental Representative(s) for the duration of construction, operation, and decommissioning or as otherwise agreed by the Secretary</p>	Section 3.1.2 Roles & Responsibilities
F1	<p>Safety Management System.</p> <p>At least two months prior to the commencement of commissioning, the Proponent shall prepare a report outlining a comprehensive Safety Management System, covering all on-site systems relevant to ensuring the safe operation of the project. The report shall clearly</p>	Section 0 Environmental Management

Reference	Description	Addressed in OEMP
	<p>specify all safety related procedures, responsibilities and policies, along with details of mechanisms for ensuring adherence to the procedures. Records shall be kept at the site and shall be available for inspection by the Department upon request. The Safety Management System shall be developed in accordance with the Department's Hazardous Industry Planning Advisory Paper No. 9, 'Safety Management', and should include:</p> <ul style="list-style-type: none"> procedures and programs for the maintenance and testing of the safety related equipment to ensure its integrity over the life of the project; and an outline of a documented procedure for the management of change. 	Section 3.7 Safety Management System
F2	<p>Television and Radio Interference</p> <p>Prior to the commencement of commissioning of the project, the Proponent shall undertake an assessment of the existing quality of the television/radio transmission available at a representative sample of receivers located within 5 kilometres of any wind turbine.</p>	<p>Section 4.2.1 Control Plans</p> <p>Community Engagement Management Plan</p> <p>Electromagnetic Interference Management Plan</p>
F3	<p>In the event of a complaint from a receptor located within 5 kilometres of a wind turbine regarding television/radio transmission during the operation of the project, the Proponent shall investigate the quality of transmission at the receptor compared with the pre-commissioning assessment and where any transmission problems can be reasonably attributable to the project, rectify the problems within three months of the receipt of the complaint, through the implementation of measures including:</p> <ul style="list-style-type: none"> modification to or replacement of receiving antenna; installation and maintenance of a parasitic antenna system; provision of a land line between the affected receptor and an antenna located in an area of favourable reception; and/or other feasible measures. <p>If interference cannot be overcome by the measures outlined in a to d, the Proponent shall negotiate with the impacted landowner(s) about installing and maintaining a satellite receiving antenna or other agreed mitigation measures. The Proponent shall be responsible for all costs associated with any such mitigation measures.</p>	<p>Community Engagement Management Plan</p> <p>Electromagnetic Interference Management Plan</p>
F4	<p>Rehabilitation and Revegetation</p> <p>Disturbance to watercourses and/or associated riparian vegetation shall be rehabilitated to a standard equal to or better than the existing condition in consultation with the DPI (Water) and DPI (Fisheries) within six months of the cessation of construction activities at the relevant area. Any revegetation measures</p>	<p>Section 4.2.1 Control Plans</p> <p>Soil & Water Management Plan</p> <p>Flora & Fauna Management Plan</p> <p>Landscape & Rehabilitation Management Plan</p>

Reference	Description	Addressed in OEMP																																																																																																																									
	undertaken shall be monitored and maintained by the Proponent consistent with the requirements of Condition F5 .																																																																																																																										
F5	<p>Rehabilitation and Revegetation</p> <p>The Proponent shall implement a revegetation and rehabilitation programme for all areas of the project footprint which are disturbed during the construction of the project and which are not required for the ongoing operation of the project, including temporary construction facility sites and sections of construction access roads. The Proponent shall ensure that all revegetation measures are implemented progressively where possible and in all cases within six months of the cessation of construction activities at the relevant area. Unless otherwise agreed to by the Secretary, the Proponent shall monitor and maintain the health of all revegetated areas until such time that the plantings have been verified by an independent and suitably qualified expert (whose appointment has been agreed to by the Secretary) as being well established, in good health and self-sustaining.</p>	<p>Section 4.2.1 Control Plans</p> <p>Soil & Water Management Plan</p> <p>Flora & Fauna Management Plan</p> <p>Landscape & Rehabilitation Management Plan</p>																																																																																																																									
F6	<p>The Proponent shall ensure that the noise generated by the operation of the wind turbines does not exceed the relevant criteria in Table 1 at any non-associated residence.</p> <table border="1"> <thead> <tr> <th>Location</th> <th colspan="10">Noise Limits (dB(A))</th> </tr> <tr> <th>Integer wind speed (m/s) at 10 metres above ground level</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>10</th> <th>11</th> <th>12</th> </tr> </thead> <tbody> <tr> <td>R25, R84, R87</td> <td>35</td> <td>35</td> <td>35</td> <td>35</td> <td>36</td> <td>39</td> <td>41</td> <td>45</td> <td>51</td> <td>57</td> </tr> <tr> <td>R27, R29, R30, R32, R89, R90</td> <td>35</td> <td>35</td> <td>35</td> <td>36</td> <td>36</td> <td>37</td> <td>39</td> <td>42</td> <td>46</td> <td>52</td> </tr> <tr> <td>R35</td> <td>35</td> <td>35</td> <td>35</td> <td>36</td> <td>37</td> <td>38</td> <td>40</td> <td>42</td> <td>45</td> <td>49</td> </tr> <tr> <td>R78</td> <td>35</td> <td>35</td> <td>35</td> <td>37</td> <td>40</td> <td>44</td> <td>47</td> <td>48</td> <td>48</td> <td>46</td> </tr> <tr> <td>R10, R48</td> <td>35</td> <td>35</td> <td>35</td> <td>38</td> <td>41</td> <td>45</td> <td>48</td> <td>51</td> <td>53</td> <td>54</td> </tr> <tr> <td>R47</td> <td>35</td> <td>35</td> <td>35</td> <td>37</td> <td>41</td> <td>44</td> <td>48</td> <td>52</td> <td>55</td> <td>58</td> </tr> <tr> <td>R39, R40, R41, R42, R44, R45, R46</td> <td>35</td> <td>35</td> <td>36</td> <td>37</td> <td>38</td> <td>40</td> <td>43</td> <td>48</td> <td>56</td> <td>66</td> </tr> <tr> <td>R7</td> <td>43</td> <td>43</td> <td>44</td> <td>46</td> <td>47</td> <td>48</td> <td>49</td> <td>49</td> <td>49</td> <td>49</td> </tr> <tr> <td>R17</td> <td>43</td> <td>44</td> <td>45</td> <td>46</td> <td>47</td> <td>48</td> <td>50</td> <td>53</td> <td>56</td> <td>60</td> </tr> </tbody> </table> <p>Table 1 – Noise criteria</p> <p>All other non-associated receptors The higher of 35 dB(A) or the existing background noise level (LA90 (10-minute)) plus 5 dB(A)</p>	Location	Noise Limits (dB(A))										Integer wind speed (m/s) at 10 metres above ground level	3	4	5	6	7	8	9	10	11	12	R25, R84, R87	35	35	35	35	36	39	41	45	51	57	R27, R29, R30, R32, R89, R90	35	35	35	36	36	37	39	42	46	52	R35	35	35	35	36	37	38	40	42	45	49	R78	35	35	35	37	40	44	47	48	48	46	R10, R48	35	35	35	38	41	45	48	51	53	54	R47	35	35	35	37	41	44	48	52	55	58	R39, R40, R41, R42, R44, R45, R46	35	35	36	37	38	40	43	48	56	66	R7	43	43	44	46	47	48	49	49	49	49	R17	43	44	45	46	47	48	50	53	56	60	<p>Section 4.2.1 Control Plans</p> <p>Noise & Vibration Management Plan</p>
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	<p>Noise generated by the operation of the wind turbines is to be measured in accordance with the relevant requirements of the South Australian Environment Protection Authority's <i>Wind Farms – Environmental Noise Guidelines 2009</i> (or its latest version), as modified by the provisions in Appendix 3. If this guideline is replaced by an equivalent NSW guideline, then the noise generated is to be measured in accordance with the requirements in the NSW guideline</p>	
<p>F12</p>	<p>Noise Monitoring</p> <p>Within 3 months of the commencement of operations, the Proponent shall:</p> <ul style="list-style-type: none"> • undertake noise monitoring to determine whether the project is complying with the relevant conditions of this consent; and • submit a copy of the monitoring results to the Department and the EPA. 	<p>Section 4.2.1 Control Plans</p> <p>Community Engagement Management Plan</p> <p>Noise & Vibration Management Plan</p>
<p>F18</p>	<p><u>Prior to the commencement of operation</u>, or as otherwise agreed by the Secretary, the Proponent shall prepare and implement (following approval) an Operation Environmental Management Plan for the project. The Plan shall outline the environmental management practices and procedures that are to be followed during operation, and shall be prepared in consultation with relevant agencies and in accordance with the <i>Guideline for the Preparation of Environmental Management Plans</i> (Department of Infrastructure, Planning and Natural Resources, 2004). The Plan shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> • a description of activities to be undertaken during operation of the project (including staging and scheduling); • statutory and other obligations that the Proponent is required to fulfil during operation, including approval/consents, consultations and agreements required from authorities and other stakeholders under key legislation and policies; • overall environmental policies, guidelines and principles to be applied to the operation of the project; • a description of the roles and responsibilities for relevant employees involved in the operation of the project, including relevant training and induction provisions for ensuring that employees are aware of their environmental and compliance obligations under these conditions of approval; • an environmental risk analysis to identify the key environmental performance issues associated with the operation phase; • details of how environmental performance would be managed and monitored to meet acceptable outcomes, including what actions will be taken to address identified potential adverse environmental impacts, including those safeguards and mitigation measures 	<p>Section 0</p> <p>Environmental Management</p>

Reference	Description	Addressed in OEMP
	<p>detailed in the EA (and any impacts arising from the staging of the construction of the project); and</p> <ul style="list-style-type: none"> • details of how sector management would be used to ensure that operational noise criteria are not exceeded. <p>The Plan shall be submitted for the approval of the Secretary no later than one month prior to the commencement of operation, or as otherwise agreed by the Secretary. Operation shall not commence until written approval has been received from the Secretary. Upon receipt of the Secretary's approval, the Proponent shall make the Plan publicly available as soon as practicable.</p> <p><i>Note: The approval of an Operation Environmental Management Plan does not relieve the Proponent of any other requirement associated with this project approval. If there is an inconsistency with an approved Operation Environmental Management Plan and the conditions of this project approval, the requirements of this project approval prevail.</i></p>	
STATEMENT OF COMMITMENTS		
8	Minimise activities that may require night time lighting and, if necessary, use low lux (intensity) lighting designed to be mounted with the light projecting inwards to the Facility site to minimise glare.	
13	<p>If WTG noise impacts are non-compliant with stated criteria used for the assessment due to temperature inversion, atmospheric stability or other reasons, then an 'adaptive management' approach can be implemented to mitigate or remove the impact. This process could include:</p> <ol style="list-style-type: none"> Investigating the nature of the reported impact; Identifying exactly what conditions or times lead to undue impacts; Consideration of operating WTG's in a reduced 'noise optimised' mode during offending wind directions and at night-time (sector management); Turning off WTG's that are identified as causing the undue impact; and Providing acoustic upgrades (glazing, façade, masking noise etc) to affected dwellings. 	<p>Section 4.2.1 Control Plans</p> <p>Noise & Vibration Management Plan</p>
14	Ensure work activities occur within recommended working hours, according to the EPA, where practicable (i.e. 7.00 am to 6.00 pm, weekdays and 8.00 am to 1.00 pm on Saturdays). Any proposed work outside of these hours will entail close consultation with the affected community.	<p>Section 4.2.1 Control Plans</p> <p>Noise & Vibration Management Plan</p>
15	Prior notification to the affected public and restricted use of exhaust/engine brakes in built up areas for night-time deliveries.	<p>Section 4.2.1 Control Plans</p> <p>Noise & Vibration Management Plan</p>

Reference	Description	Addressed in OEMP
19	<p>Development of a Weed Management Plan, which provides:</p> <ul style="list-style-type: none"> a) From soil disturbance and vegetation clearance, placing soil which may contain exotic species at least 50 m from any water source; b) Where a specific weed risk has been identified, all machinery, equipment and vehicles are to be washed down before entering and leaving the Facility site; c) Topsoil that is limited in weeds, harvested to salvage the native soil seed bank and then used to reintroduce the seed bank back into disturbed areas; d) All onsite staff and contractors educated on noxious weeds present at the Facility site and ways to prevent spread; e) Revegetation with locally native endemic species characteristic of the cleared vegetation type; f) Control of perennial weed grasses within the disturbance zone for 3 to 5 years after construction; and g) Management of stock access during periods of vegetation and soil disturbance in coordination with landowners. 	<p>Section 4.2.1 Control Plans</p> <p>Soil & Water Management Plan</p> <p>Flora & Fauna Management Plan</p> <p>Landscape & Rehabilitation Management Plan</p>
20(l)	<p>Bird and bat strike monitoring will be undertaken in accordance with the monitoring guidelines provided by the Australian Wind Energy Association (Brett Lane & Associates 2005). If results show that longer term monitoring is required then a monitoring programme will be developed in consultation with DECCW and other departments/agencies as required. Such a programme could include adaptive management whereby significant impacts are dealt with by using an adaptive approach;</p>	<p>Section 4.2.1 Control Plans</p> <p>Flora & Fauna Management Plan</p> <p>Bird and Bat Adaptive Management Plan</p>
24	<p>Personnel involved in the construction and management phases of the Project trained in procedures to implement recommendations relating to cultural heritage, where necessary, to decrease impact.</p>	<p>Section 3.1 Environmental Management Structure & Responsibility</p>
30	<p>Contract a licensed haulage contractor with experience in transporting heavy and over-size loads, to be responsible for obtaining all required approvals and permits from the RTA and Councils and for complying with any conditions specified in the aforementioned approvals.</p>	<p>Section 4.2.1 Control Plans</p> <p>Traffic Management Plan</p>
41	<p>If lighting is required, the Proponent will commit to ensuring obstacle lighting installation conforms with the CASA Manual Of Standards (MOS) Part 139, paragraph 9.4.3.4A. Shielding restricts the downward component of light to 5 % of nominal intensity emitted below 5 ° below horizontal and zero light emission below 10 ° below horizontal</p>	<p>Section 4.2.1 Control Plans</p> <p>Community Engagement Management Plan</p> <p>Electromagnetic Interference Management Plan</p>
46	<p>General mitigation methods for radio-communication include:</p> <ul style="list-style-type: none"> Modifications to or relocation of existing antennae; Installation of a directional antennae; and Installation of an amplifier to boost the signal. 	<p>Section 4.2.1 Control Plans</p> <p>Community Engagement Management Plan</p> <p>Electromagnetic Interference Management Plan</p>
46	<p>General mitigation methods for radio-communication include: · Modifications to or relocation of existing antennae; · Installation of a</p>	<p>Section 4.2.1 Control Plans</p>

Reference	Description	Addressed in OEMP
	directional antennae; and Installation of an amplifier to boost the signal.	Community Engagement Management Plan Electromagnetic Interference Management Plan
47	If television interference is experienced and reported by an existing receiver in the vicinity of the Project, the source and nature of the interference would be investigated by the Proponent. Should the cause of interference be attributed to the Project, then the Proponent will put suitable mitigation measures in place after consultation and agreement with the effected landowner or television broadcaster. These could include: <ul style="list-style-type: none"> • Re-orientation of existing aerials to an alternative transmitter; • Provision of a land line between the affected receiver and an antenna located in a suitable reception area; • Provision of satellite or digital TV where available; and • Installation of a new repeater station in a location where interference can be avoided (this is more complex for digital but also less likely to be required for digital television). 	Section 4.2.1 Control Plans Community Engagement Management Plan Electromagnetic Interference Management Plan
49	Establish a procedure to ensure the ongoing maintenance of the Facility site internal access roads during the operation phase. This maintenance would include sedimentation and erosion control structures, where necessary.	Section 4.2.1 Control Plans Soil & Water Management Plan Landscape & Rehabilitation Management Plan
54	Adherence to all regulations under the NSW <i>Rural Fires Act 1997</i> and the Northern Tablelands Bushfire Risk Management Plans.	Section 4.2.1 Control Plans Emergency Response Management Plan
55	The Rural Fire Service (RFS) and NSW Fire Brigade will be consulted in regard to the adequacy of bushfire prevention measures to be implemented on-site during construction, operation and decommissioning. These measures would potentially cover hot-work procedures, asset protection zones (APZ's), safety, communication, site access and response protocols in the event of a fire originating in the Facility infrastructure, or in the event of an external wildfire threatening the Facility or nearby properties.	Section 4.2.1 Control Plans Emergency Response Management Plan
56	Provide RFS with the locations of individual WTG locations, ancillary infrastructure, construction work schedule, location of additional water supplies for construction, potential landing pads for fire fighting aircrafts and helicopters and access gates for fire fighting services.	Section 4.2.1 Control Plans Emergency Response Management Plan
58	Education to construction crews and maintenance staff on the topic of bushfire risk management and risks that could be present at the Facility.	Section 4.2.1 Control Plans Emergency Response Management Plan
59	Provision of basic fire fighting equipment at each active site, including fire extinguishers, knapsacks and other equipment suitable for initial response actions with a minimum of one trained person on-site.	Section 4.2.1 Control Plans Emergency Response Management Plan

Reference	Description	Addressed in OEMP
60	Maintain provision for mobile telephone and UHF radio communications.	Section 4.2.1 Control Plans Emergency Response Management Plan
61	The SWF Substation will be surrounded by a gravel and concrete area, free of vegetation, to provide an APZ.	Section 4.2.1 Control Plans Emergency Response Management Plan
63	Placement and maintenance of APZ will occur around WTG's, transmission line easements and ancillary structures to minimise the spread of fire. Workplace health and safety protocols will be developed to minimise the risk of fire for workers in the control room and amenities.	Section 4.2.1 Control Plans Emergency Response Management Plan
64	WTG's will be shut down if monitored components reach critical temperatures or if directed to by the RFS in the case of a nearby wildfire being declared (an all-hours contact number would be available to the RFS during the bushfire period).	Section 4.2.1 Control Plans Emergency Response Management Plan
65	Flammable materials and ignition sources brought onto the Facility site will be handled and stored as per manufacturer's instructions.	Section 4.2.1 Control Plans Soil & Water Management Plan
66	Lightening protection will be installed correctly to minimise risk of malfunction.	Section 4.2.1 Control Plans Emergency Response Management Plan
72	<p>Development of a Soil and Water Management Plan (SWMP), to minimise soil disturbance, prevent erosion from surface runoff and to prevent disturbance of water resources in the area. Including:</p> <ul style="list-style-type: none"> • All drainage from the Project is in accordance with the <i>Protection of the Environment Operations Act 1997</i> (POEO); • Avoid removal or disruption to naturally occurring drainage stabilisers; • If erosion is detected as a result of inadequate maintenance of drainage control devices, the relevant Environmental Manager shall be alerted and remedial action is to occur immediately, to ensure no re-occurrence of the event; • Water management strategy to minimise water quality impacts and to maximise capture and reuse of water on-site; • Incorporate permit/approval requirements for work within creek and riparian zones and application of the following guidelines: <ul style="list-style-type: none"> ○ <i>Managing Urban Stormwater: Soils and Construction</i>, 4th Edition (Landcom 2004); ○ <i>Managing Urban Stormwater: Soils and Construction, Volume 2C Unsealed Roads</i>, DECC; ○ <i>Guidelines for Controlled Activities</i>, NOW; ○ <i>Guidelines for Planning, construction and Maintenance of Tracks</i> (NSW LWC 1994); and 	Section 4.2.1 Control Plans Soil & Water Management Plan

Reference	Description	Addressed in OEMP
	<ul style="list-style-type: none"> ○ <i>Why Do Fish Need to Cross the Road? Fish Passage Requirements for Waterway Crossings</i>, NSW DPI (Fairfull & Witheridge 2003). • During operation the Operational Environmental Management Plan (OEMP) should monitor the following: <ul style="list-style-type: none"> ○ A regular inspection program for all facilities, tracks and watercourse crossings and rehabilitation sites; ○ Vehicles management e.g. restrict traffic to defined roads, including any wet weather crossing requirements; ○ Materials management e.g. control of maintenance activities and spill kits; ○ Wastewater management; and ○ Appropriate containment of refuse, rubbish etc. a) Due regard of CMA CAP plan in preparation of CEMP and OEMP. 	
81	During dry and windy conditions, a water cart or alternative (non-chemical) dust suppression would be available and applied to work areas.	Section 4.2.1 Control Plans Section 10 – Traffic Management Plan Community Engagement Management Plan
85	Provision of skip bins and recycling bins on-site to handle packaging materials and domestic waste.	Section 4.2.1 Control Plans Traffic Management Plan Waste Management Plan
87	On-site toilets will either be drained by a septic tank or be an enclosed unit.	Section 4.2.1 Control Plans Traffic Management Plan Waste Management Plan
88	All chemicals and oils will be treated as contaminated waste at the Glen Innes Village or other local landfill.	Section 4.2.1 Control Plans Traffic Management Plan Waste Management Plan
98	Development of an Operational Environmental Management Plan (OEMP), which can be combined with the CEMP and additions added for operation of the Project.	Section 0 Environmental Management
100	Provide a finalised turbine layout and infrastructure map, including turbine co-ordinates, to all stakeholders following completion of the construction of the wind farm.	Section 0 Additional Commitments
108	The preparation of a bird and bat monitoring program prior to operation of the wind farm will be prepared that identifies:	Section 4.2.1 Control Plans

Reference	Description	Addressed in OEMP
	<ul style="list-style-type: none"> the frequency of monitoring and reporting; the thresholds at which impacts are considered unacceptable; and <p>the adaptive management approaches which are acceptable. The frequency of reporting strike data will be determined during the preparation of the monitoring programme. The adaptive management measures that could be implemented should strike thresholds be reached will be negotiated with OEH and SEWPAC at such time that significant strike is detected to allow for a more tailored and species-specific approach to mitigation. Bird and bat strike monitoring will be undertaken with consideration to the monitoring guidelines provided by the <i>Australian Wind Energy Association</i> (Brett Lane & Associates 2005).</p>	<p>Flora & Fauna Management Plan</p> <p>Bird and Bat Adaptive Management Plan</p>
112	Exploration activity can take place during the operational phase of the Project in agreement with landowner and wind farm operator as per Section 62 of Mining Act 1992.	<p>Section 0</p> <p>Additional Commitments</p>
113	The Proponent agrees to allow surveying in and around the Project area during the operation phase of the Project.	<p>Section 0</p> <p>Additional Commitments</p>
COMMONWEALTH APPROVAL		
3	<p>The approval holder must provide for The Minister's approval an Offset Management Plan for offset sites specified in the approved Biodiversity Offset Package. The Offset Management Plans (the Plans) must be consistent with the Package, and can only be submitted to The Minister for approval after the Package has been approved by The Minister.</p> <p>Operation of the action may not commence until the Offset Management Plans have been approved in writing by The Minister. The Plans once approved must be implemented.</p>	<p>Section 4.2.1 Control Plans</p> <p>Flora & Fauna Management Plan</p>
4	<p>To compensate for the impacts on habitat for the Regent Honeyeater and Swift Parrot, the approval holder must contribute no less than \$250,000 (GST Inclusive) in funding towards research by an appropriate institution, to assist in building the body of knowledge regarding how these species interact with, and are impacted by, wind farms.</p> <p>This sum is to be donated in five increments of at least \$50,000 to be paid annually, commencing on operation of the action and thereafter on each anniversary of this date until up until the fourth anniversary, with evidence of payment provided to The Department within 30 days of each payment being made. An alternative payment structure may be implemented, following agreement by The Department that the alternate payment structure will realise a benefit to the body of knowledge of the research project/s to be funded.</p> <p>Operation of the action must not commence until the payment structure, expected outcomes and milestones of the research project/s have been approved by The Minister</p>	<p>Section 4.2.1 Control Plans</p> <p>Flora & Fauna Management Plan</p>
7	The approval holder must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval,	Section 0

Reference	Description	Addressed in OEMP
	including measures taken to implement the Offset Site Management Plan required by the approval, and make them available upon request to the Department . Such records may be subject to audit the Department or an independent auditor in accordance with Section 458 of the EPBC Act, or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the Department's website. The results of audits may also be publicised through the general media.	Environmental Management
8	By December 31 of each year after the commencement of the action, the approval holder must publish a report on their website addressing compliance with the conditions of the approval over the previous 12 months, including the implementation of the Management Documents . These compliance records must remain on the website for 12 months from the date of publishing. Potential or actual non-compliance with any of the conditions of approval must be reported to the Department in writing within five business days of the approval holder becoming aware of the actual or potential non-compliance.	Section 0 Environmental Management
9	Upon the direction of the Minister , the approval holder must ensure that an independent audit of compliance with the conditions of approval is conducted and a report submitted to the Minister . The independent auditor must be approved by the Minister prior to the commencement of the audit. Audit criteria must be agreed to by the Minister and the audit report must address the criteria to the satisfaction of the Minister.	Section 5.2 Auditing
ENVIRONMENTAL PROTECTION LICENCE		
L1.1	Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the <i>Protection of the Environment Operations Act 1997</i> .	Section 0 Environmental Management
L2.1	The licensee must not cause, permit or allow any waste generated outside the premises to be received at the premises for storage, treatment, processing, reprocessing or disposal or any waste generated at the premises to be disposed of at the premises, except as expressly permitted by the licence.	Section 4.2.1 Control Plans Waste Management Plan
L2.2	The licensee must ensure that all liquid and/or non-liquid waste generated and/or stored on the site is assessed and classified in accordance with NSW EPA Waste Classification Guidelines and where removed from the site, transported to a waste facility that can lawfully receive the waste.	Section 4.2.1 Control Plans Waste Management Plan
L3.2	For wind speeds from cut in to rated power of the wind turbine generators, wind turbine noise generated from the premises at the nearest non-project related residences must not exceed the greater of: a) 35dB(A); or b) the existing background noise level plus 5dBA for each integer wind speed at 10 meters above ground level at the level at the wind farm site.	Section 4.2.1 Control Plans Noise & Vibration Management Plan

Reference	Description	Addressed in OEMP																																																																																																														
	<p>This condition applies to all non-project related residences (residences in existence at the date of the DPE Project Approval, MP09_0093 MOD 1, 30 June 2016).</p> <p>Note: For the purpose of determining compliance with Condition L3.2 the locations and noise limits LA(eq,10) in the table below apply. The locations referred to in the table below are defined in Condition L3.3.</p>																																																																																																															
L3.2	Notwithstanding Condition L3.1 , the noise limit specified under that condition does not apply to any sensitive receiver where a noise agreement is in place between the licensee and the respective landowner(s) in relation to noise impacts and/or noise limits.	Section 4.2.1 Control Plans Noise & Vibration Management Plan																																																																																																														
L3.2	<p style="text-align: center;">Integer Wind Speed (m/s) at 10 metres AGL</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Location</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>10</th> <th>11</th> <th>12</th> </tr> </thead> <tbody> <tr> <td>R25, R84, R87</td> <td>35</td> <td>35</td> <td>35</td> <td>35</td> <td>36</td> <td>39</td> <td>41</td> <td>45</td> <td>51</td> <td>57</td> </tr> <tr> <td>R27, R29, R30, R32, R89, R90</td> <td>35</td> <td>35</td> <td>35</td> <td>36</td> <td>36</td> <td>37</td> <td>39</td> <td>42</td> <td>46</td> <td>52</td> </tr> <tr> <td>R35</td> <td>35</td> <td>35</td> <td>35</td> <td>36</td> <td>37</td> <td>38</td> <td>40</td> <td>42</td> <td>45</td> <td>49</td> </tr> <tr> <td>R78</td> <td>35</td> <td>35</td> <td>35</td> <td>37</td> <td>40</td> <td>44</td> <td>47</td> <td>48</td> <td>48</td> <td>46</td> </tr> <tr> <td>R10, R48</td> <td>35</td> <td>35</td> <td>35</td> <td>38</td> <td>41</td> <td>45</td> <td>48</td> <td>51</td> <td>53</td> <td>54</td> </tr> <tr> <td>R47</td> <td>35</td> <td>35</td> <td>35</td> <td>37</td> <td>41</td> <td>44</td> <td>48</td> <td>52</td> <td>55</td> <td>58</td> </tr> <tr> <td>R39, R40, R41, R42, R44, R45, R46</td> <td>35</td> <td>35</td> <td>36</td> <td>37</td> <td>38</td> <td>40</td> <td>43</td> <td>48</td> <td>56</td> <td>66</td> </tr> <tr> <td>R7</td> <td>35</td> <td>43</td> <td>44</td> <td>46</td> <td>47</td> <td>48</td> <td>49</td> <td>49</td> <td>49</td> <td>49</td> </tr> <tr> <td>R17</td> <td>43</td> <td>44</td> <td>45</td> <td>46</td> <td>47</td> <td>48</td> <td>50</td> <td>53</td> <td>56</td> <td>60</td> </tr> </tbody> </table>	Location	3	4	5	6	7	8	9	10	11	12	R25, R84, R87	35	35	35	35	36	39	41	45	51	57	R27, R29, R30, R32, R89, R90	35	35	35	36	36	37	39	42	46	52	R35	35	35	35	36	37	38	40	42	45	49	R78	35	35	35	37	40	44	47	48	48	46	R10, R48	35	35	35	38	41	45	48	51	53	54	R47	35	35	35	37	41	44	48	52	55	58	R39, R40, R41, R42, R44, R45, R46	35	35	36	37	38	40	43	48	56	66	R7	35	43	44	46	47	48	49	49	49	49	R17	43	44	45	46	47	48	50	53	56	60	Section 4.2.1 Control Plans Noise & Vibration Management Plan
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L3.4	Noise generated from ancillary infrastructure from the premises must not exceed 35 dB(A) LAeq(15 minutes) at any non-project related residences.	Section 4.2.1 Control Plans Noise & Vibration Management Plan																																																																																																														
L3.5	Notwithstanding Conditions L3.2 & L3.4 , the noise limit specified under that condition does not apply to any residence where a noise agreement is in place between the licensee and the respective landowner(s) in relation to noise impacts and/or noise limits.	Section 4.2.1 Control Plans Noise & Vibration Management Plan																																																																																																														
L3.6	<p>The noise limit specified in Condition L3.4 applies under all meteorological conditions except for any of the following:</p> <p>(a) wind speeds greater than 3 metres/second at 10 metres above ground level; or</p> <p>(b) temperature inversion conditions between 1.5°C and 3°C/100m and wind speeds greater than 2 metres/second at 10 metres above ground level; or</p> <p>(c) temperature inversion conditions greater than 3°C/100m.</p>	Section 4.2.1 Control Plans Noise & Vibration Management Plan																																																																																																														
L3.7	The noise criteria under Condition L3.2 for the wind turbines are to apply under all meteorological conditions.	Section 4.2.1 Control Plans Noise & Vibration Management Plan																																																																																																														
L3.8	For the purposes of Condition L3.2 , wind speed is to be measured directly in accordance with a method nominated by the proponent and at a location nominated by the proponent, consistent with the	Section 4.2.1 Control Plans																																																																																																														

Reference	Description	Addressed in OEMP
	method and location used to determine the background noise regression curves in the Noise Impact Assessment.	Noise & Vibration Management Plan
L3.9	For the purpose of Condition L3.2 , noise must be determined in accordance with the methodology in the <i>Environmental Noise Guidelines: Wind Farms (SA EPA 2003)</i> . The modification factors in Section 4 of those guidelines must be applied, as appropriate, to the noise levels measured by the noise monitoring equipment	Section 4.2.1 Control Plans Noise & Vibration Management Plan
L3.10	For the purpose of Condition L3.9 , the presence of excessive tonality (a special noise characteristic) must be determined in accordance with ISO 1996.2:2007 Acoustics - Description, measurement and assessment of environmental noise - Determination of environmental noise levels. If tonality is found to be a repeated characteristic of the wind turbine noise, 5 dBA should be added to measured noise level from the wind farm. If tonality is only identified for certain wind directions and speeds, the penalty is only applicable under these conditions. The tonal characteristic penalty applies only if the tone from the wind turbine is audible at the relevant receiver. Absence of tone in noise emissions measured at an intermediate location is sufficient proof that the tone at the receiver is not associated with the wind farm's operation. The assessment for tonality should only be made for frequencies of concern from 25 Hz to 10 kHz and for sound pressure levels above the threshold of hearing (as defined in ISO 389.7:2005 Acoustics - Reference zero for the calibration of audiometric equipment - Part 7: Reference threshold of hearing under free-field and diffuse-field listening conditions. The maximum penalty to be added to the measured noise level from the wind farm for any special noise characteristic individually or cumulatively is 5 dB(A).	Section 4.2.1 Control Plans Noise & Vibration Management Plan
L3.11	To determine compliance with Condition L3.4 , the modification factors presented in Section 4 of the <i>New South Wales Industrial Noise Policy (NSW EPA, 2000)</i> must be applied to the measured noise level where applicable.	Section 4.2.1 Control Plans Noise & Vibration Management Plan
L3.12	To determine compliance: a) with the noise limits in Condition L3.2 & L3.4 , the noise measurement equipment must be located: <ul style="list-style-type: none"> · approximately on the property boundary, where any dwelling is situated 20 metres or less from the property boundary closest to the premises; or · within 20 metres of a dwelling façade, but not closer than 5m, where any dwelling on the property is situated more than 20 metres from the property boundary closest to the premises. b) with the noise limits in condition L3.2, the noise measurement equipment must be located: <ul style="list-style-type: none"> · at the most affected point at a location where there is no dwelling at the location; or · at the most affected point within an area at a location prescribed by condition L3.3. Noise levels are determined in accordance with the methodology provided in the <i>Environmental Noise Guidelines: Wind Farms (South</i>	Section 3.6 Complaints Section 4.2.1 Control Plans Community Engagement Management Plan Noise & Vibration Management Plan

Reference	Description	Addressed in OEMP
	<i>Australia EPA, 2009</i>) for condition L3.2 and the <i>Industrial Noise Policy (NSW EPA 2000)</i> for condition L3.4.	
L3.13	A non-compliance of Condition L3.2 will still occur where noise generated from the premises in excess of the appropriate limit is measured: <ul style="list-style-type: none"> · at a location other than an area prescribed by conditions L3.12(a) and L3.12(b); and/or · at a point other than the most affected point at a location. 	Section 3.6 Complaints Section 4.2.1 Control Plans Community Engagement Management Plan Noise & Vibration Management Plan
O1.1	Licensed activities must be carried out in a competent manner. This includes: <ul style="list-style-type: none"> a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.	Section 4.2.1 Control Plans Traffic Management Plan Waste Management Plan
O2.1	All plant and equipment installed at the premises or used in connection with the licensed activity: <ul style="list-style-type: none"> a) must be maintained in a proper and efficient condition; and must be operated in a proper and efficient manner.	All sections
O3.1	Activities occurring in or on the premises must be carried out in a manner that will minimise the emission of dust from the premises.	Section 4.2.1 Control Plans Air Quality Management Plan
O4.1	The licensee must maintain, and implement as necessary, a current emergency response plan for the premises. The licensee must keep the emergency response plan on the premises at all times. The emergency response plan must document systems and procedures to deal with all types of incidents (e.g. spills, explosions or fire) that may occur at the premises or that may be associated with activities that occur at the premises and which are likely to cause harm to the environment. If a current emergency response plan does not exist at the date on which this condition is attached to the licence, the licensee must develop an emergency response plan within three months of that date.	Section 3.5.2 Pollution Incident Response Management Plan Section 4.2.1 Control Plans Emergency Response Management Plan
O5.1	The licensee must store and handle all chemicals on site in accordance with the <i>Storing and Handling liquids: Environment Protection, Participants Manual: Appendix: Technical Considerations</i> (DECC, 2007).	Section 4.2.1 Control Plans Soil & Water Management Plan
M1.1	The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.	Section 0 Environmental Management
M1.2	All records required to be kept by this licence must be: <ul style="list-style-type: none"> a) in a legible form, or in a form that can readily be reduced to a legible form; b) kept for at least 4 years after the monitoring or event to which they relate took place; and 	Section 0 Environmental Management

Reference	Description	Addressed in OEMP
	produced in a legible form to any authorised officer of the EPA who asks to see them.	
M2.1	The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.	Section 3.6 Complaints Section 4.2.1 Control Plans Community Engagement Management Plan
M2.2	The record must include details of the following: a) the date and time of the complaint; b) the method by which the complaint was made; c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect; d) the nature of the complaint; e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and if no action was taken by the licensee, the reasons why no action was taken.	Section 3.6 Complaints Section 4.2.1 Control Plans Community Engagement Management Plan
M2.3	The record of a complaint must be kept for at least 4 years after the complaint was made.	Section 3.6 Complaints
M2.4	The record must be produced to any authorised officer of the EPA who asks to see them.	Section 3.6 Complaints
M3.1	The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.	Section 3.6 Complaints Section 4.2.1 Control Plans Community Engagement Management Plan
M3.2	The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.	Section 3.6 Complaints
R1.1	Annual Return Documents The licensee must complete and supply to the EPA an Annual Return in the approved form comprising: <ol style="list-style-type: none"> 1. a Statement of Compliance, 2. a Monitoring and Complaints Summary, 3. a Statement of Compliance - Licence Conditions, 4. a Statement of Compliance - Load based Fee, 5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan, 6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and 7. a Statement of Compliance - Environmental Management Systems and Practices. 	Section 0 Environmental Management

Reference	Description	Addressed in OEMP
	At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.	
R1.2	An Annual Return must be prepared in respect of each reporting period	Section 0 Environmental Management
R1.5	The Annual Return for the reporting period must be supplied to the EPA via eConnect EPA or by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').	Section 0 Environmental Management
R1.6	The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.	Section 0 Environmental Management
R1.7	Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by: a) the licence holder; or b) by a person approved in writing by the EPA to sign on behalf of the licence holder.	Section 0 Environmental Management
R2.1	Notifications must be made by telephoning the Environment Line service on 131 555. <i>Note:</i> The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.	Section 3.5.1, Environmental Incidents Section 4.2.1 Control Plans Emergency Response Management Plan
R2.2	The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.	Section 3.5.1 Environmental Incidents
G1.1	A copy of this licence must be kept at the premises to which the licence applies.	Section 0 Environmental Management
G1.2	The licence must be produced to any authorised officer of the EPA who asks to see it.	Section 0 Environmental Management
G1.3	The licence must be available for inspection by any employee or agent of the licensee working at the premises	Section 0 Environmental Management
E1.1	Within three months of the commencement of operations, the licensee must undertake noise monitoring to determine whether the project is complying with the relevant conditions of this licence.	Section 0 Environmental Management

Reference	Description	Addressed in OEMP
	A copy of the monitoring results must be submitted to the EPA.	

6.3 Referenced Documents

The following list represents a number of key documents that support the efficient and effective implementation of this plan:

Document Type	Document
Policy	Environmental Policy
Management Plan	Air Quality Management Plan
Management Plan	Bird & Bat Adaptive Management Plan
Management Plan	Community Engagement Management Plan
Management Plan	Cultural Heritage Management Plan
Management Plan	Electromagnetic Interference Management Plan
Management Plan	Emergency Response Management Plan
Management Plan	Flora & Fauna Management Plan
Management Plan	Landscape & Rehabilitation Management Plan
Management Plan	Noise & Vibration Management Plan
Management Plan	Pollution Incident Response Management Plan
Management Plan	Soil & Water Management Plan
Management Plan	Traffic Management Plan
Management Plan	Waste Management Plan
Procedure	Feedback & Complaints Procedure
Procedure	Incident Reporting & Investigation Procedure
Procedure	Records & Documents Procedure
Register	Corrective Action Register
Register	Environmental Risk Register

Register	Feedback & Complaints Register
Register	Facility Calendar
Checklist	Monitoring Checklist
Checklist	Site inspection Checklist
Form	Complaints Report
Form	Corrective Action Request
Form	Incident Report

6.4 Definitions

Abbreviation	Definition
BOP	Balance of Plant
CAR	Corrective Action Request
CoA	Conditions of Approval
CEMP	Construction Environmental Management Plan
CWP	CWP Renewables
CWPAM	CWP Asset Management Pty Ltd
DPE	NSW Department of Planning & Environment
EPA	NSW Environmental Protection Agency
EP&A	Environmental Planning & Assessment
EPBC	Environmental Protection and Biodiversity Conservation
EPC	Engineering, Procurement and Construction
EPL	Environment Protection Licence
ER	Environmental Representative
MW	Megawatt
OEMP	Operation Environmental Management Plan
POEO	Protection of Environment Operations
PIRMP	Pollution Incident Response Management Plan

SDS	Safety Data Sheet
SWF	Sapphire Wind Farm Pty Ltd
WMS	Work Method Statement
WTG	Wind Turbine Generator

6.5 Risk Assessment Methodology

Table 1: Risk Matrix

		LIKELIHOOD				
		1 Rarely	2 Unlikely	3 Likely	4 Very Likely	5 Extremely Likely
CONSEQUENCE	Risk Analysis Risk = Consequence x Likelihood (R = C x L)	Could happen but probably never will e.g.: occurs once every 10 years or longer	Could happen e.g.: could occur yearly or longer	Could happen sometime e.g.: could occur monthly or longer	Could happen anytime e.g.: could occur weekly or longer	Almost certain to happen e.g.: could occur daily or more frequently
	1 Insignificant	1 Low	2 Low	3 Low	4 Low	5 Low
	2 Minor	2 Low	4 Low	6 Medium	8 Medium	10 Medium
	3 Moderate	3 Low	6 Medium	9 Medium	12 Medium	15 High
	4 Serious	4 Low	8 Medium	12 Medium	16 High	20 High
	5 Catastrophic	5 Low	10 Medium	15 High	20 High	25 High

Table 2: Consequence Rating

Rating	Score	Financial	Safety	Environment	Compliance	Performance	Reputation
Catastrophic	5	Cost overrun or financial loss greater than \$20M.	Fatality or permanent significant disability, long term impairment or illness significantly affecting the quality of life for an employee, contractor or member of the public.	Permanent impacts to populations of significant flora or fauna (e.g. Threatened), highly significant heritage items, complete removal of habitat of threatened species or significant impairment of ecosystem function.	Claim or action (other than by a Regulator) involving an amount greater than \$20 million (including court, defence and compliance costs and loss of revenue OR Regulator action that results in a penalty greater than \$5 million and/or imposition of requirements that would cost more than \$20 million (including court, defence and compliance costs and loss of revenue.	The forced or externally imposed loss of the entire wind farm for more than one week.	Court, regulator or Government/Parliamentary inquiry concludes improper, corrupt or grossly negligent conduct or an action resulting replacement of directors.

Rating	Score	Financial	Safety	Environment	Compliance	Performance	Reputation
Serious	4	Cost overrun or financial loss between \$5 M and \$20M.	Long term or permanent disability, impairment or illness not significantly affecting the quality of life for an employee, contractor or member of the public.	Medium to long term (>10 years) physical impacts likely to cause impacts to flora and fauna populations, or direct impacts to flora and fauna populations. Adverse impacts to significant heritage items.	Claim or action (other than by a Regulator) involving an amount between \$5 and \$20 million (including court, defence and compliance costs and loss of revenue OR Regulator action that results in a penalty between \$1 and 5 million and/or imposition of requirements that would cost between \$5 and 20 million (including court, defence and compliance costs and loss of revenue.	The forced or externally imposed loss of the entire wind farm for more than one day.	Action resulting in one or more executives or senior managers being terminated and/or State, Commonwealth Government or parliamentary inquiry in to SWF, CWP actions or operations. State or Commonwealth regulator conducts formal inquiry into alleged impropriety, corruption etc. Prolonged and negative national media attention.

Rating	Score	Financial	Safety	Environment	Compliance	Performance	Reputation
Moderate	3	Cost overrun or financial loss between \$1 M and \$5M.	Hospitalisation with medical intervention of an employee, contractor or member of the public.	Medium term (3-10 years) impacts on populations of native flora and fauna including loss of individuals of threatened species. Significant impacts on the physical environment.	Claim or action (other than by a Regulator) involving an amount between \$1M and \$5M (including court, defence and compliance costs and loss of revenue OR Regulator action that results in a penalty between \$100K and \$5M and/or imposition of requirements that would cost between \$1M and \$5M (including court, defence and compliance costs and loss of revenue.	The forced or externally imposed loss of a collector circuit and associated WTG for more than one week.	Short term negative media attention. State or Commonwealth regulator conducts formal enquiry. Prolonged and negative regional media attention. Moderate damage to reputation with a regulator.
Minor	2	Cost overrun or financial loss between \$100K and \$1M.	Injury or illness requiring medical treatment of an employee, contractor or member of the public.	Short term (1-3) years direct impacts on physical environment (water, soil, air) that may impact on flora or fauna. Loss of individuals of common native flora or fauna. May extend outside the work area.	Claim or action (other than by a Regulator) involving an amount between \$100K and \$1M (including court, defence and compliance costs and loss of revenue OR Regulator action that results in a penalty between \$10K and \$100K	The forced or externally imposed loss of a collector circuit and associated WTG for more than one day.	Formal complaint made to State or Commonwealth regulator. Short term negative regional media attention. Minor damage to reputation with a regulator.

Rating	Score	Financial	Safety	Environment	Compliance	Performance	Reputation
					and/or imposition of requirements that would cost between \$100K and \$1M (including court, defence and compliance costs and losses.		
Insignificant	1	Cost overrun or financial loss less than 100K.	Nil to first aid injury, low level short term inconvenience or symptoms for an employee, contractor or member of the public.	Low level direct impacts on the physical environment (water, soil, air) within the work area. Impacts easily remedied. No identifiable impact on flora or fauna.	Claim or action (other than by a Regulator) involving an amount up to \$100K (including court, defence and compliance costs and loss of revenue OR Regulator action that results in a warning notice, penalty up to \$10K and/or imposition of requirements that would cost up to \$100K (including court, defence and compliance costs and loss of revenue.	The forced or externally imposed loss of a single wind turbine for more than one day.	Negative comment about SWF or CWPAM at a regional level. Formal complaint made to SWF or CWPAM