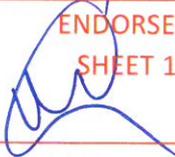


PLANNING AND ENVIRONMENT ACT 1987  
PLANNING SCHEME MOYNE  
PERMIT NO. 2006/0220/B  
ENDORSED PLAN  
SHEET 1 OF 41  
SIGNED  FOR  
MINISTER FOR PLANNING  
DATE: 18/10/19



**Woolsthorpe Wind Farm**

Siemens Gamesa Renewable Energy Pty Ltd.

**Fire Emergency Response Plan**

IS280600\_WWF\_FERP | 8

9 September 2019

ENDORSED TO COMPLY  
WITH CONDITION  
13e  
OF PLANNING PERMIT  
2006/0220/B



## Woolsthorpe Wind Farm

Project No: IS280600  
 Document Title: Fire Emergency Response Plan  
 Document No.: IS280600\_WWF\_FERP  
 Revision: Rev 8  
 Date: 9 September 2019  
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 Author: Richa Ekka  
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### Document history and status

Revision	Date	Description	By	Review	Approved
1	25/03/2019	Draft Fire Emergency Response Plan	Richa Ekka	Debashish Dash	Hugh Griggs
2	02/05/2019	Update following CFA review	Andrew Wallace	Terri Burns	Adam Williams
3	07/05/2019	Further updates following CFA review	Hugh Griggs	Andrew Wallace	Hugh Griggs
4	15/05/2019	Update following client review	Hugh Griggs	Andrew Wallace	Hugh Griggs
5	21/05/2019	Update following further CFA review	Hugh Griggs	Andrew Wallace	Hugh Griggs
6	12/6/2019	Update following client review	Hugh Griggs	Andrew Wallace	Hugh Griggs
7	26/7/2019	Update to make minor changes requested by DELWP	Hugh Griggs	Andrew Wallace	Hugh Griggs
8	09/09/2019	Update to make minor changes requested by DELWP	Mark McMillan	Andrew Wallace	Hugh Griggs

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### Limitation statement

Jacobs prepared this Fire Emergency Response Plan (FERP) using data and information provided by Siemens Gamesa Renewable Energy Pty Ltd., the Department of Environment, Land, Water and Planning (DELWP), the Country Fire Authority (CFA) and publicly available data at the time of preparation. The passage of time, changes in site conditions or impacts of future events may require further investigations, whether at the Woolsthorpe Wind Farm or otherwise and subsequent data analysis, and re-evaluation of the findings, observations and conclusions expressed in this FERP.

In preparing this FERP, Jacobs relied upon and presumed that data provided is accurate. Except as otherwise stated in the FERP, Jacobs has not attempted to verify the accuracy or completeness of any such information.

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## 1. Introduction

### 1.1 Purpose

The purpose of this Fire Emergency Response Plan (FERP) is to describe the potential risks and mitigation measures proposed to manage fire-related emergencies that may occur at Woolsthorpe Wind Farm (WWF) project site. The FERP establishes protocols for dealing with fire emergencies, including the provision of fire-fighting facilities, water storage and routes for emergency access.

It is anticipated that guidance contained in this FERP will be incorporated into subsequent Emergency Response Plans for the construction and operational phases of this project.

The FERP addresses *Condition 15(e): Fire Emergency Response Plan* of Planning Permit (2006/0220/A).

### 1.2 Document scope

This Plan forms part of the overarching Environmental Management Plan (EMP) for the WWF and includes the following:

- Proposed consultation activities to be conducted with the CFA and DELWP;
- A description of the fire risk at the site and proposed risk management methods;
- A fire-related emergency preparedness and response procedure.

### 1.3 Planning permit conditions

The FERP has been prepared to address the requirements of Condition 15(e): Fire Emergency Response Plan in the WWF Planning Permit (2006/0220/A). This specifically includes:

- a) *The provision of 1 or 2 static water supply tanks solely for fire fighting purposes with the maximum capacity specified in Condition 3 o) to the satisfaction of the CFA:*
  - *A minimum of 45,000 litres of water to be used solely for firefighting purposes must be provided on the site in not more than two tanks.*
- b) *The tanks must:*
  - *to be fitted with outlets consisting of at least one 64 mm. 3 thread/25mm x 50mm nominal bore British Standard Pipe round male coupling;*
  - *be signed to the satisfaction off CFA; and*
  - *be able to be accessed to within 4 meters of the outlet, in all weather conditions, by fire fighting vehicles of up to 15 tonnes with a minimum turning circle of 10 metres;*
- c) *procedures for vegetation management, fuel control and the provision of firefighting equipment during declared fire danger periods;*
- d) *minimum standards for access roads and tracks to allow access to fire fighting vehicles;*
- e) *the facilitation by the operator under the permit, before or within 3 months after the commencement of the operation of the wind energy facility, of a familiarisation visit to the site and explanation of emergency services procedures for the Country Fire Authority, Rural Ambulance Victoria, Moyne Shire Council's Municipal Emergency Management Committee and Victoria Police;*
- f) *subsequent familiarisation sessions for new personnel of the organisations referred to above on a regular basis if required; and*

g) *if requested, training of the authority personnel in relation to suppression of wind energy facility fires.*

## 1.4 Victorian agency review

As per the requirements of the Permit, the FERP is to be prepared in consultation with the CFA, the DELWP and Moyne Shire Council. The following consultation has occurred:

- **CFA**

17 April 2019: The CFA reviewed the FERP Rev 1 and provided update comments. These comments included updated CFA guidelines for Renewable Energy installations and specific requirements for site access and water supply. The FERP has been updated to address these comments. Please see CFA advice at **Attachment D (CFA.a)**

16 May 2019: The CFA reviewed the FERP Rev 4 and stated 'CFA is satisfied that the Fire Emergency Response Plan Version 4 dated 15 May 2019 meets the requirements of Condition 15e of Planning Permit 2006/0220/A subject to the following amendments' (Please see p.2 of **Attachment D (CFA.b)**)

-Perimeter road to be shown on development plan (as per the 17 May CFA advice the CFA subsequently do not require this infrastructure).

- Amend to 'Constructed internal roads to have a minimum trafficable width of 5 metres with a 4 metre vertical clearance for the width of the formed road surface. This has been included in V5.

-General notes regarding the development plans, which have been actioned within those plans

17 May 2019: The CFA stated the requirement for 'a four (4) metre perimeter road should be constructed within the ten (10) metre perimeter fire break' is not required. (Please see p.1 of **Attachment D (CFA.b)** for CFA advice) This minor update has been included in V5, no other change has been made from V4.

- **DELWP**

26 April 2019: Comment was sought from DELWP Barwon South West on FERP V1 - see **Attachment D (DELWP.a)**

7 May 2019: DELWP Barwon South West stated it is coordinating the region's review of the Fire Emergency Response Plan - see **Attachment D (DELWP.b)**

10 May 2019: DELWP Barwon South West stated it would circulate FERP V1 to DELWP Forest Fire Operations area - see **Attachment D (DELWP.b)**

13 May 2019: At its request, additional supporting documents were provided to DELWP see **Attachment D (DELWP.c)**

26 July 2019: On 26 July 2019 DELWP provided comments (emailed dated 14 June 2019) requesting minor changes to the FERP (*grass height to be at or below 100mm over the fire danger period*), see **Attachment D (DELWP.d)** The document was updated to accord with this request.

- **Moyne Shire**

Detailed general project discussions with Moyne Shire have occurred throughout 2019. Specific advice on the FERP is expected soon, If/when advice is received from Moyne Shire it will be provided to Minister.

## 2. Legislative and policy requirements

The key legislation and policy requirements that are relevant to Fire Emergency Response and are applicable to the proposed WWF Project are as follows:

### **Victorian legislation:**

- Electrical Safety Act 1998
- Electricity Safety (Bushfire Mitigation) Regulations 2013
- Dangerous Goods (Storage and Handling) Regulations 2012

### **Standards and guidance:**

- Guidelines for Renewable Energy Installations, CFA (February 2019)
- Emergency Management Guidelines for Wind Energy Facilities, CFA (August 2017)
- Victorian Fire Risk Register (<https://www.vfr.vic.gov.au/index.php>)
- 
- AS 3745: Planning for emergencies in facilities
- Moyne Shire Municipal Emergency Management Plan (August 2016)

### 3. Consultation

During the planning, construction and operational phases of the WWF development, Project Site management will:

- Forward the FERP to CFA for its consideration and to its satisfaction, in accordance with the DELWP and planning guidelines.
- Establish a regular consultation program with the emergency response authorities who are likely to respond to an incident at the site. This will continue through the construction and operational stages as summarised in Table 3.1.
- Within three months of commencement of the operation of the WWF, the operator will facilitate a familiarisation visit to the Project Site and provide an explanation of the emergency procedures for:
  - The CFA - including representatives from headquarters, Operations Managers / Officers in Regional and District offices and local volunteer brigade
  - Rural Ambulance Victoria
  - Moyne Shire Council’s Municipal Emergency Management Committee
  - Victoria Police.
- Conduct subsequent familiarisation sessions for new personnel of the above organisations on a regular basis (as required).
- Conduct on request, training of personnel of the organisations referred to above in relation to the suppression of wind energy facility fires.
- Consult Energy Safe to confirm any requirement of a Bushfire Mitigation Plan as per the Electricity Safety (Bushfire Mitigation) Regulations (2013). Note, a Bushfire mitigation plan may be required to be in place before commissioning.

Table 3.1 : Consultation activities

Stage	Consultation Requirement	WWF Lead
Planning	<ul style="list-style-type: none"> <li>• Submission of the draft Fire Emergency Response Plan for discussion with the CFA, DELWP and Moyne Shire.</li> </ul>	WWF Project Manager and HSE Manager
Pre-construction	<ul style="list-style-type: none"> <li>• Submission of the final Fire Emergency Response Plan for approval by the CFA and DELWP and notify Moyne Shire.</li> <li>• Issuance of approved Plans to CFA and DELWP for file.</li> </ul>	WWF Project Manager and HSE Manager
During Construction	<ul style="list-style-type: none"> <li>• Conduct drills with CFA</li> <li>• Notify Moyne Shire of all drills and procedures.</li> <li>• Emergency drill with contractor construction team within 3 months of site establishment</li> <li>• Conduct site inspection by CFA</li> </ul>	Contractor HSE Manager

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Stage	Consultation Requirement	WWF Lead
Operations	<ul style="list-style-type: none"> <li>• Within 3 months of commencement of operation conduct site familiarisation visit with:                             <ul style="list-style-type: none"> <li>- The CFA (including headquarters level, the CFA Regional Office and local volunteer brigade);</li> <li>- Rural Ambulance Victoria;</li> <li>- Moyne Shire Council's Municipal Emergency Management Committee; and</li> <li>- Victoria Police.</li> </ul> </li> <li>• Conduct of emergency evacuation drills with the CFA</li> <li>• Conduct of emergency drills with WWF staff at least 6-monthly</li> <li>• Conduct of site inspection by CFA (on agreed frequency)</li> <li>• Annual training of all staff on emergency management plans</li> </ul>	WWF HSE Manager

## 4. Wildfire risks and prevention

The WWF Project Site lies within a designated Bushfire Management Overlay (BMO 23) on the Moyne Planning Scheme (2016). The CFA has assessed the surrounding areas of Woolsthorpe and Hawkesdale and has classified them as 'High Risk' in the Victorian Fire Risk Register (<https://www.vfrr.vic.gov.au/index.php>).

Prevailing weather conditions during the bushfire season (December to March) in the area are north-westerly winds, accompanied by high daytime temperatures and low relative humidity. There are also frequent dry lightning storms.

### 4.1 History of emergencies

According to the Moyne Shire Municipal Emergency Management Plan (Version 3 (p.37) 23 August 2016), the Shire has suffered from fire and flood emergencies, including several large grassfires and bushfires that have resulted in the loss of assets. This has included:

- Nullawarre grassfire (2010),
- Killarney Fire (2009/2008 & 2007),
- Cobra Killuc Fire (2007/2008) and
- Yambuk Fire (2006/2007).

The Shire's topography is exposed to the threat of bushfire due to the topography of hilly forested areas and rapidly moving grassfires across the volcanic plains.

### 4.2 Potential ignition sources

Some activities during construction at the WWF Project Site have the potential to create a wildfire hazard:

- Hot work (welding, use of blow torch, angle-grinding etc.)
- Use of explosive power tools
- Use of vehicles and other equipment with internal combustion engines
- Use of flammable materials (refuelling, transformer oil etc.)
- Blasting, and
- Smoking.

Potential threats arising from these activities include:

- Ignition of fire through the generation of sparks, use of naked flame etc
- Damage to infrastructure through fire (smoke, radiant heat, flame contact, ember attack and ash)
- Damage to nearby properties or other assets in the event a fire could not be controlled, or
- Injury/fatality to personnel on site, emergency services personnel or the public.

#### **4.2.1 Wind farm construction ignition potential**

The construction of the WWF will involve a large number of personnel and vehicles accessing the site and undertaking at-risk operations. Consequently, the likelihood of a fire starting during construction is higher than during operation.

Nacelle ignited fires are rare and would only be associated with operational phases.

#### **4.2.2 External ignition potential**

Wildfires starting elsewhere and entering the Project Site is also a potential risk.

### **4.3 At-Risk receptors**

The FERP's purpose is to ensure the safety and protection of the following:

- Onsite workforce and visitors
- Neighbours and adjoining properties
- Environmentally sensitive areas

### **4.4 General wind farm design**

Sound engineering design, using Australian Standards and principals of fire safety described in the CFA Guidelines (2019) will be adopted. For the design of the wind turbines this will include:

- Internal fire protection systems to assist with fire suppression;
- Lightning protection devices installed on each wind turbine;
- Electrical and communications cables underground;
- Dedicated monitoring systems within each wind turbine that detect temperature increases in the turbines, to either place turbine in a "safe state" or shut them down when the threshold temperature is reached; and
- A cut off system to prevent overheating when the temperature inside the nacelle is too high.

### **4.5 Wildfire risk management**

The following risk mitigation measures will be implemented to help prevent of wildfire risk:

- Fuel load management (Section 4.6)
- Infrastructure requirements including; access and signage (Section 3.7) and fire-fighting water sources (including static storage) (Section 3.8)
- Liaison with CFA groups (Section 2)

Draft site emergency response procedures in the event of a wildfire are included in Section 5, and will be incorporated into the Contractor's Emergency Response Plan. This will include training for staff and contractors on:

- the potential wildfire hazards
- controls in place to mitigate and manage fires;

- use of fire-fighting equipment; and
- emergency evacuation response drills.

Monitoring fuel loads and the condition of fire suppression infrastructure, in particular access tracks and fire water, will be conducted as part of on-going site inspections.

#### **4.6 Fuel / vegetation risk management**

The WWF Project Management team will ensure that fuel / vegetation risk management measures are implemented, as per the CFA Guidelines (2018) within the WWF leasehold at all times during the Fire Danger Period. The details of this management plan will be finalised in consultation with the CFA but will generally include the following:

- Grass will be kept well maintained and at a low height (to be at or below 100mm) during the declared Fire Danger Period
- A fuel reduced area of ten (10) metres width will be maintained around the perimeter of electricity compounds and substation type facilities. Grass height within the fuel reduced area to be at or below 100mm over the fire danger period.
- A fuel reduced area of four (4) metres width will be maintained directly adjacent to the Woolsthorpe Nature Conservation Reserve. Grass height within the fuel reduced area to be at or below 100mm over the Fire Danger Period.
- There will be no long grass or deep leaf litter in areas where plant and heavy equipment will be working
- All plant and heavy equipment will have the capacity of at least one 9 Litre Water Stored Pressure fire extinguisher with a minimum rating of 3A, or firefighting equipment.
- All Staff and Contractors will adhere to restrictions and guidance during the Fire Danger Period, high fire danger days and Total Fire Ban days (refer to [www.cfa.vic.gov.au](http://www.cfa.vic.gov.au)).
- Vehicles associated with the WWF Project Site will be equipped with 1 x 9 litre fire extinguisher with a minimum rating of 3A and rake hoe as a minimum when on the Project Site during the fire danger period, or equivalent firefighting equipment. Other equipment as prescribed by the local CFA will be provided and installed.

#### **4.7 Site access**

Site access to and within the WWF Site will be designed and maintained to assist CFA in responding to fires on site. The following provisions, as specified by the CFA Guidelines (2018) will be adopted:

- Roads are to be of all-weather construction and capable of accommodating a vehicle of 15 tonnes.
- Constructed roads should be a minimum of five (5) metres in trafficable width with a four (4) metre vertical clearance for the width of the formed road surface.
- The average grade should be no more than 1 in 7 (14.4% or 8.1°) with a maximum of no more than 1 in 5 (20% or 11.3°) for no more than 50 metres.
- Dips in the road should have no more than a 1 in 8 (12.5% or 7.1°) entry and exit angle.
- Road networks must enable responding emergency services to access all areas of the facility.
- The provision of at least two (2) but preferably more access points to the site, to ensure safe and efficient access to and egress from areas that may be impacted or involved in fire. The number of access points should be informed through a risk management process.

No specific vehicle passing bays are provided. Passing can occur utilising the hardstands adjacent to each turbine, or by using the 5m width of road.

Access to static water supply tanks is also critical for fire fighting vehicles. In the event of a fire, water should be available and accessible to ensure that fire suppression activities are not hindered in any way and to ensure that fire appliances can identify and access water points efficiently.

#### **4.8 Water supply for fire fighting**

In accordance with the planning permit conditions there will be a provision of static water supply tanks (not more than two), with a minimum of 45,000 litres of water to be used solely for firefighting purposes.

Appropriate location of water access points will assist safe, effective and timely fire suppression activities. As per the CFA Guidelines (CFA 2018), the following firefighting measures will be provided:

- Static water storage tank installations will comply with AS 2419.1
- Each static water storage tank will not be less than 22,500 Litres effective capacity.
- The static water storage tanks will be above ground water tanks constructed of concrete or steel (Refer to Appendix A) the location and number of tanks should be determined in consultation with a CFA Fire Safety Officer (and signed to the satisfaction of CFA).
- The static storage tanks will be capable of being completely refilled automatically or manually within 24 hours.
- The hard suction point will be provided, with a 150mm full bore isolation valve (AS2419.1), (refer Appendix A) equipped with a Storz connection and sized to comply with the required suction hydraulic performance. Adapters that may be required to match the connection are, 150/100/90/75/65mm adapters, with a matching blank end cap to be provided.
- The hard suction point will be positioned within 4m to a hardstand area and provide a clear and safe access for fire personnel.
- An all-weather road access and hardstand will be provided to the hard suction point. The hardstand will be maintained to a minimum of 15 tonne GVM, 8m long and 6m wide or to the satisfaction of the Delegated Officer.
- The road access and hardstand will be kept clear at all times.
- The hard suction point will be protected from mechanical damage (i.e. bollards) where necessary.
- Where the access road has one entrance, a 10m radius-turning circle will be provided at the tank.
- An external water level indicator will be provided to the tank and be visible from the hardstand area.
- Signage will be fixed to the tank indicating its capacity (refer to Appendix B).
- Signage will be provided at the front entrance to the site, indicating the direction to the static water tank and being to the satisfaction of the Chief Officer (refer to Appendix B).

The exact location and design of the fire fighting infrastructure is still under development and will be finalised in consultation with the CFA and other relevant emergency response authorities. Water access points must be clearly identifiable and unobstructed to ensure efficient access. Appendix C provides an indicative site location plan.

#### **4.9 Fire danger and warnings**

The Fire Danger Rating for the Project Site is available daily on the Bureau of Meteorology website and will be reviewed daily during the fire season. If a Total Fire Ban is declared for any District by the CFA on days when

fires are likely to spread rapidly and could be difficult to control, activities at the Project Site will cease. Restrictions on construction activities during the Fire Danger Period and days of Total Fire Ban are detailed below.

Activity	Restrictions during the Fire Danger Period	Restrictions on Total Fire Ban Days
Welding, grinding, charring, soldering or gas cutting, heating bitumen	<p>These activities cannot be carried out unless:</p> <ul style="list-style-type: none"> <li>• A fire-resistant shield or guard is in place to stop sparks, hot metal or slag from the fire</li> <li>• An area at least 1.5 metres from the operation is clear of flammable material or wetted down sufficiently to prevent the spread of fire</li> <li>• You have a hose connected to a reticulated water supply or water spray knapsack containing at least 9 litres of water</li> <li>• All cut-offs and hot materials from the operation are placed in fire-proof containers</li> <li>• A person is in attendance at all times while the fire is alight and has the capacity and means to extinguish the fire</li> <li>• The fire is completely extinguished before the person leaves</li> </ul>	<p>These activities are banned on Total Fire Ban Days:</p> <ul style="list-style-type: none"> <li>• In limited circumstances. CFA, MFB or DELWP may issue a section 40 permit on Total Fire Ban Days</li> </ul>
Use of tractors, slashers, earth moving, excavating or road-making machines propelled by a heat engine within 9 metres of any crops, grass, stubble, weeds, undergrowth or other vegetation	<p>These cannot be used unless the machinery:</p> <ul style="list-style-type: none"> <li>• Is free from faults and mechanical defects that could cause an outbreak of fire</li> <li>• Is fitted with a spark arrester in working order, a turbocharger or exhaust aspirated air cleaner</li> <li>• Carries fire suppression equipment comprising either:               <ul style="list-style-type: none"> <li>- At least one knapsack spray pump, in working order, fully charged with water, with a capacity of not less than 9 litres, or</li> <li>- At least one water (stored pressure) fire extinguisher, in working order, fully charged with water and maintained at the correct pressure, with a capacity of not less than 9 litres</li> </ul> </li> </ul>	<p>This should be avoided wherever possible because the risk of starting fires is extremely high and the impact of fire these days may be much greater.</p> <p>If the work is essential, follow the guidelines in the adjacent column for Fire Danger Period.</p>

## 5. Emergency preparedness and response

In the event of a fire at the WWF Project Site, the following procedures will be followed by all site personnel. These procedures will also be incorporated into the Contractor's Emergency Response Plan during construction and the WWF's operational emergency response plan. Plans will be consistent with the requirements of Australian Standard 3745: Planning for emergencies in facilities.

The emergency plans will include:

- Emergency prevention, preparedness and mitigation activities
- Activities for preparing for, and prevention of emergencies (eg training and maintenance)
- Control and coordination arrangements for emergency response (eg evacuation procedures including transport options for all personnel, emergency assembly areas / muster points and procedures for response to hazards)
- The agreed roles and responsibilities of on-site personnel (eg equipment isolation, fire brigade liaison, evacuation management).

To facilitate fire brigade response, CFA's expectation is that the emergency management plan includes:

- Facility description, including infrastructure details, activities and operating hours
- A site plan containing infrastructure (solar panels, wind turbines, inverters, battery storage, generators, diesel storage, buildings), site entrances, exits and internal roads; fire services (water tanks, fire hydrants, fire hose reels); and neighbouring properties
- Up-to-date contact details of site personnel and any relevant off-site personnel who could provide technical support during an emergency
- A manifest of dangerous goods (if required under the Dangerous Goods (Storage and Handling) Regulations 2012)
- Emergency procedures for credible hazards and risks, including fire
- Procedures for notifying the emergency services
- Procedures for evacuating personnel.
- A fire management plan includes all of the fire mitigation measures that will be implemented to reduce the risk of fire, established through a risk management process. A fire management plan may specifically address:
  - a) Risk management measures specific to fire (as above)
  - b) A fuel (vegetation) reduction and maintenance plan/procedure.

### 5.1 Responsibilities to be included in the plans will include:

#### All personnel:

- 1) On discovery of a fire, or in the event of an emergency in the vicinity of the WWF Project Site, inform the person in charge (by phone or in person) e.g. Construction Site Manager or other, and provide location, nature and extent of the fire.
- 2) Call 000 if the incident presents an immediate threat to human health and/or property.

## Fire Emergency Response Plan

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### Site manager:

- 1) Determine the nature, location and extent of the fire
- 2) Direct visitors, contractors and service personnel to the designated emergency meeting point
- 3) Call 000
- 4) Advise neighbouring landholders (if accessible)
- 5) Advise relevant authorities including the EPA, WorkSafe, Moyne Shire Council
- 6) Use fire-fighting equipment only if trained and it is safe to do so
- 7) Determine the need for additional services or evacuation.

### Other personnel:

- 1) Report to the designated emergency meeting point immediately
- 2) Unless directed otherwise or part of the firefighting crew, stay away from the fire area
- 3) Assist or vacate the site as instructed.

**000 must be called in the event of an emergency if the fire brigade, police or an ambulance are required.**

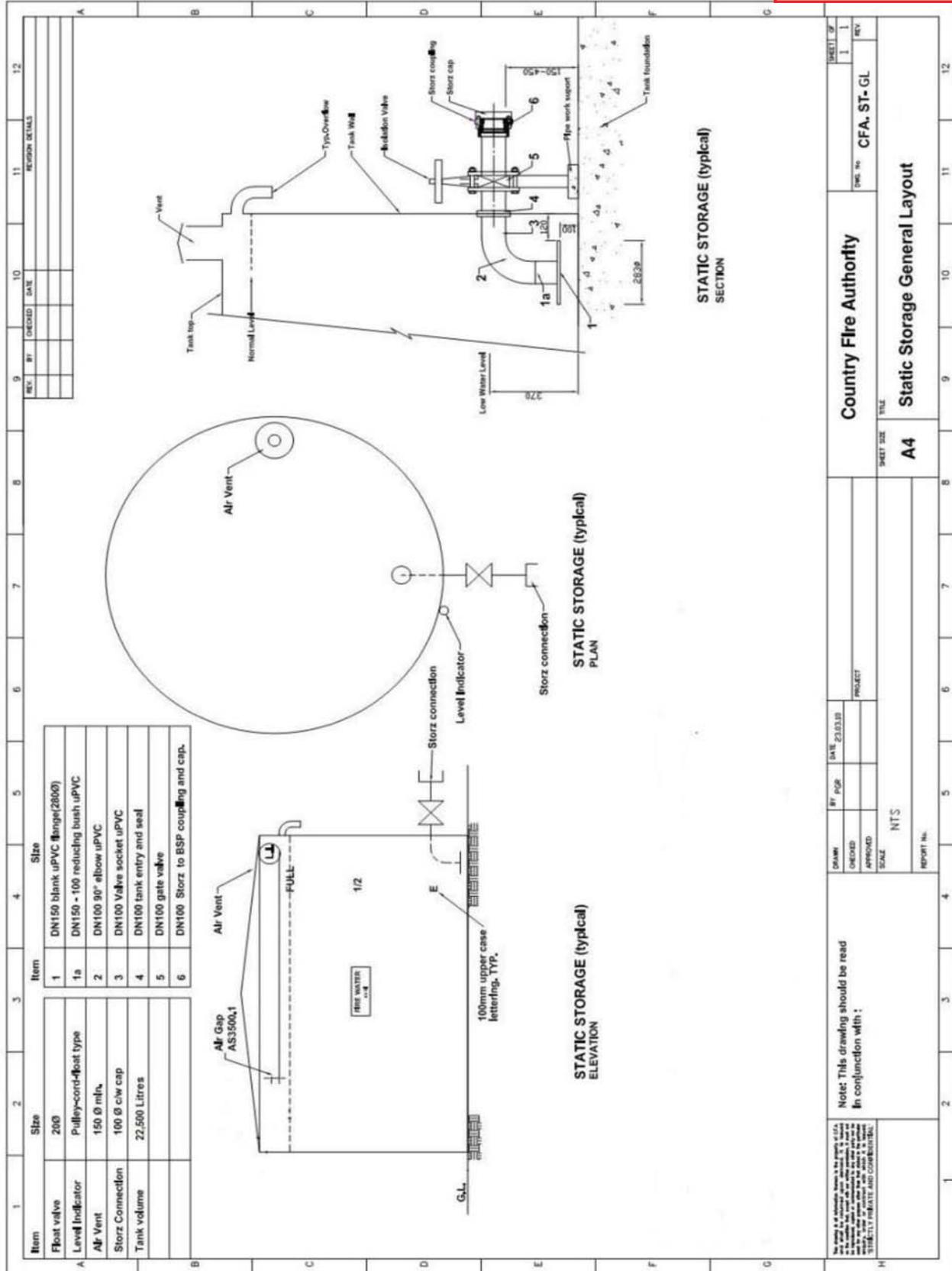
## 5.2 Emergency contact details

Table 5.1 provides the relevant emergency contact information. This table will be reviewed and updated at the commencement of construction and updated as necessary to ensure suitable contact details are readily available.

Table 5.1 : WWF emergency contact details

Name	Organisation	Phone
Emergency Services	Fire	000
	Ambulance	000
	Police	000
	SES	132 500
	Electricity Supply Faults	1800 000 922
	EPA Victoria	1300 372 842
	Wildlife Emergency	03 8400 7300
	Moyne Shire Fire Prevention Officer	03 5568 0555
	WorkSafe Victoria	13 23 60
WWF Site Manager	TBC	TBC
WWF HSE Manager	TBC	TBC
WWF Civil Engineer	TBC	TBC
Principal contractor/ Site Construction Manager	TBC	TBC
Grid Connector Environmental Compliance Officer	TBC	TBC

# Appendix A. Static storage layout



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**Figure 1:** 150mm full bore isolation valve.



**Figure 2:** 125mm, 100mm, 90mm, 75mm, and 65mm Storz tree adapters.

Source: Guidelines for Renewable Energy Installations, December 2018

## Appendix B. Static water Tank Signage

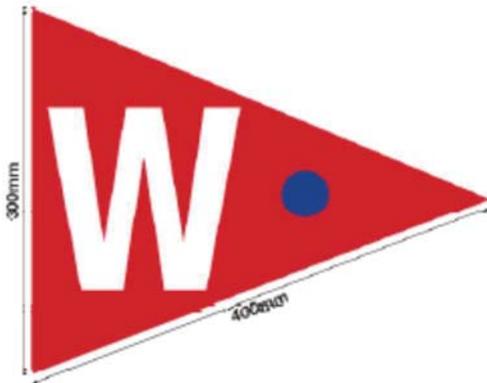
### 1. Sign Fixed to 2X Tanks (2 tanks x 22,500 Litres = 45,000 Litres)



Fade Resistant Sign Fixed to Tank in Contrasting Lettering, White Sign Writing on Red Background.

75mm upper case lettering 'FIRE WATER' 50mm upper case lettering '22,500 LITRES'

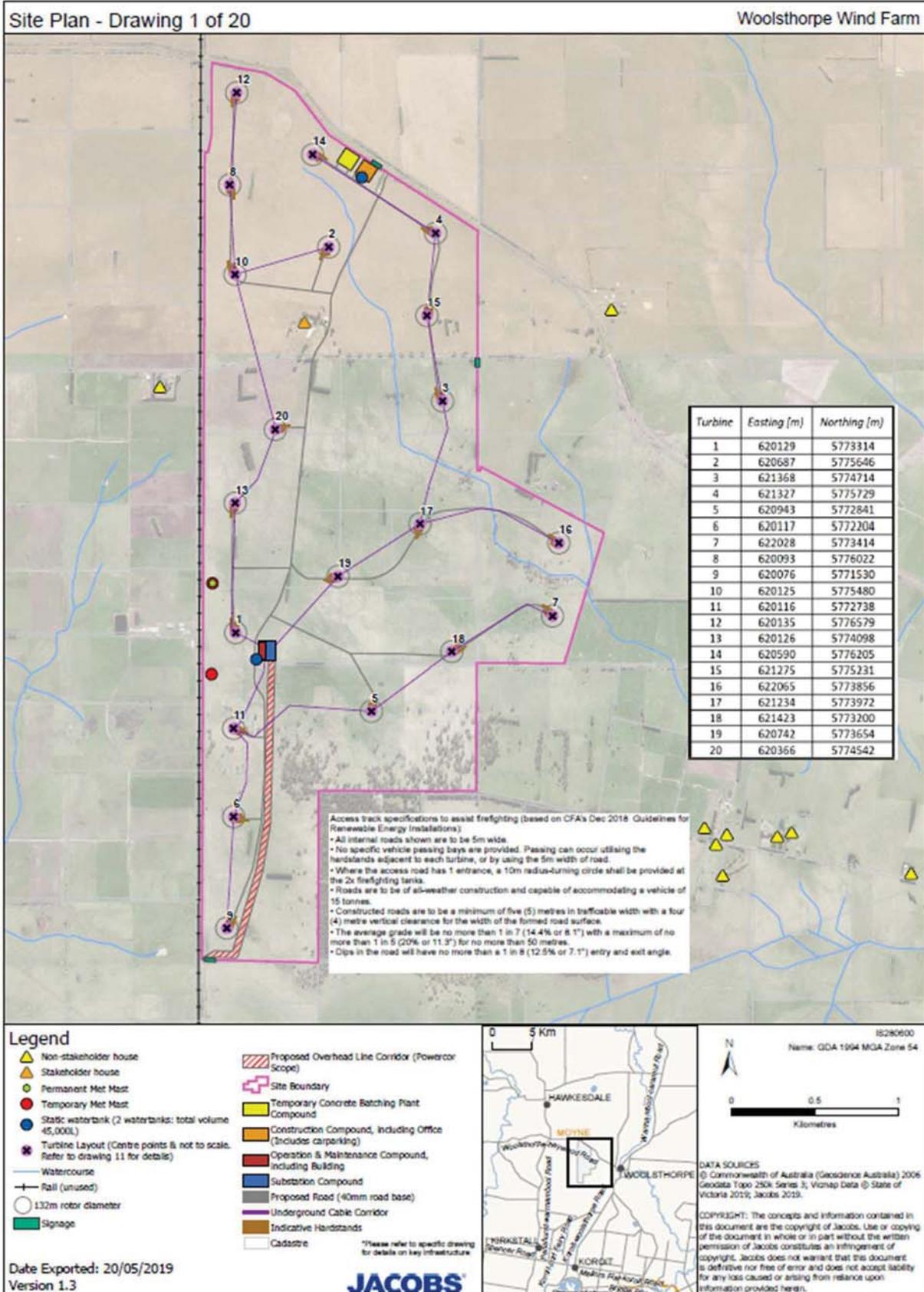
### 2. Directional Sign



Fade Resistant Sign Fixed to Rigid post in Contrasting Lettering, White Sign Writing on Red Background, with a circle Reflective Marker

150mm upper case lettering 'W'

**Appendix C. Project site and access tracks**



## Appendix D. Agency Consultation

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### **CFA**

CFA.a

CFA.b

### **DELWP**

DELWP.a

DELWP.b

DELWP.c

DELWP.d

**CFA Fire Safety**

Email: \_\_\_\_\_  
Telephone: 03 9262 8578

5000-281826-89859  
Telephone: 0352 402700  
Peter Hamilton

**APPROVED FOR THE  
MINISTER FOR PLANNING**

SHEET 22 OF 41

17 April 2019

Hugh Griggs  
Jacobs Australia Pty Ltd  
Floor 11, 452 Flinders Street  
Melbourne VIC 3000

Dear Sir,

## **Comment on Fire Emergency Response Plan**

**Planning Permit:** 2006/0220/A  
**Site Name:** Woolsthorpe Windfarm  
**Address:** Woolsthorpe-Heywood Road WOOLSTHORPE 3276

Thank you for your email dated 15 April 2019 and associated copy of the Woolsthorpe Wind Farm – Fire Emergency Response Plan.

CFA has reviewed the document and is satisfied that the content of the Woolsthorpe Wind Farm – Fire Emergency Response Plan (IS2806000\_WWF\_FERP Revision 1 dated 15 April 2019) meets with CFA's requirements and Planning Permit 2006/0220/A Condition 15(e), and as such supports the Plan in its current format subject to the following;

### Section 3.7 Site Access

- References CFA Guidelines (2015), please update to CFA Guidelines (2017)

### Section 3.8 Water Supply for Fire Fighting

- Dot point one refers to 64mm 3TPI threaded coupling, please update to reflect dot point 4) being storz tree incorporating 150/100/90/75/65 adapters
- Clause 2) refers to tank capacity of 22,500 Litres, please update to reflect 45,000 Litres (2 x 25,000 Litre tanks)
- Clause 4) refers to 100mm full bore isolation valve, please update to 150mm (this is in accordance with the requirements of AS2419.1)

Please note that CFA has updated its Guidelines in relation to Renewable Energy installations (which incorporates Wind Facilities). SHEET 23 OF 41

The latest document is entitled;  
'Guidelines for Renewable Energy Installations' dated December 2018 and is available on  
CFA website [\\_\\_\\_\\_\\_](#)

Should you wish to discuss this matter in more detail, please don't hesitate to contact me.

Yours sincerely



**Peter Hamilton**  
Fire Safety Coordinator  
Fire and Emergency Management

**Griggs, Hugh**

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MINISTER FOR PLANNING

SHEET 24 OF 41

**From:** Peter Hamilton <P.Hamilton@cfa.vic.gov.au>  
**Sent:** Friday, 17 May 2019 1:20 PM  
**To:** Griggs, Hugh  
**Cc:** 'Chowdhury, Debjani (SGRE ON APAC PR PD6)'; vaskewthornton@moyne.vic.gov.au; Dave Allen; katelynn@klmn.com.au; Burn, Phillip; stewart.steven.s@edumail.vic.gov.au; cozens4@activ8.net.au; Warner, Astrid (SGRE ON APAC S&MKAPAC AU)  
**Subject:** [EXTERNAL] RE: Seeking CFA advice on appropriateness of Fire Emergency Response Plan and Development Plan (for Woolsthorpe Wind Farm)

Hi Hugh,

Many thanks for the email...

Upon review of FERP Section 4.7 Site Access, dot point 1, 'A four (4) metre perimeter road should be constructed within the ten (10) metre perimeter fire break', CFA is comfortable for this dot point/requirement to be removed.

This particular requirement is more relevant to solar farm and battery farm installations where internal road networks are not present to the same degree as a Wind facility development.

No amendments are required to the overall site plan dated 15 May 2019.

Regards



**Peter Hamilton - Fire Safety Coordinator**

Fire & Emergency Management  
 61-63 Separation Street (PO Box 586) , North Geelong 3215  
 T: 03 5240 2712 M: 0457 989 301  
 E: [p.hamilton@cfa.vic.gov.au](mailto:p.hamilton@cfa.vic.gov.au)

Protecting lives and property



[cfa.vic.gov.au](http://cfa.vic.gov.au)

---

**From:** Griggs, Hugh [mailto:Hugh.Griggs@jacobs.com]  
**Sent:** Thursday, 16 May 2019 3:19 PM  
**To:** Peter Hamilton  
**Cc:** 'Chowdhury, Debjani (SGRE ON APAC PR PD6)'; vaskewthornton@moyne.vic.gov.au; Dave Allen; katelynn@klmn.com.au; Burn, Phillip; stewart.steven.s@edumail.vic.gov.au; cozens4@activ8.net.au; Warner, Astrid (SGRE ON APAC S&MKAPAC AU)  
**Subject:** RE: Seeking CFA advice on appropriateness of Fire Emergency Response Plan and Development Plan (for Woolsthorpe Wind Farm)

Hi Peter

Thanks for very quick turnaround with review of the documents provided yesterday.

Further to your below advice and a phone call you had with Dave Allen today (see Dave's email notes of this phone call attached):

Jacobs proposes to amend Section 4.7 of V4 of the FERP as follows to remove requirement for perimeter road.

**4.7 Site access**

*Site access to and within the WWF Site will be designed and maintained to assist CFA in responding to fires on*

site. The following provisions, as specified by the CFA Guidelines (2018) will be adopted:

- ~~A four (4) metre perimeter road should be constructed within the ten (10) metre perimeter fire break.~~
  - Roads are to be of all-weather construction and capable of accommodating a vehicle of 15 tonnes.
  - Constructed roads should be a minimum of four (4) metres in trafficable width with a four (4) metre vertical clearance for the width of the formed road surface.
  - The average grade should be no more than 1 in 7 (14.4% or 8.1°) with a maximum of no more than 1 in 5 (20% or 11.3°) for no more than 50 metres.
  - Dips in the road should have no more than a 1 in 8 (12.5% or 7.1°) entry and exit angle.
  - Road networks must enable responding emergency services to access all areas of the facility.
  - The provision of at least two (2) but preferably more access points to the site, to ensure safe and efficient access to and egress from areas that may be impacted or involved in fire. The number of access points should be informed through a risk management process.
- No specific vehicle passing bays are provided. Passing can occur utilising the hardstands adjacent to each turbine, or by using the 5m width of road.

As per Dave's email and your conversation with him, this is considered acceptable for the following reasons:

- the site is very flat,
  - it is grazing land and there is clear access to the whole site,
  - there's no major vegetation within the site,
- the scatter trees are buffered 5-15m depending on the size,
- the road layout make all turbines quite accessible, and
  - the vegetation patches outside the site boundary can be accessed by the road and former train line easements.

Please see attached drawings showing all the possible access options on the site (and the new locations of the water tanks as you requested).

I seek CFA's advice that it a) considers the deletion of perimeter road requirement within the FERP is acceptable and b) it does not require the development plan to be amended to show a perimeter road.

All your other required changes will be incorporated.

Regards  
Hugh

Hugh Griggs, MPIA | Jacobs | Senior Land Use Planning Consultant – Environment and Spatial | 0438 252 388 | [hugh.griggs@jacobs.com](mailto:hugh.griggs@jacobs.com) | [www.jacobs.com](http://www.jacobs.com)

---

**From:** Peter Hamilton <P.Hamilton@cfa.vic.gov.au>

**Sent:** Thursday, 16 May 2019 11:04 AM

**To:** Griggs, Hugh <Hugh.Griggs@jacobs.com>

**Cc:** 'Chowdhury, Debjani (SGRE ON APAC PR PD6)' <debjani.chowdhury@siemensgamesa.com>; vaskewthornton@moyne.vic.gov.au; Dave Allen <daveallenbsd@bigpond.com>; katelynn@klmn.com.au; Burn, Phillip <Phillip.Burn@jacobs.com>; stewart.steven.s@edumail.vic.gov.au; cozens4@activ8.net.au; Warner, Astrid (SGRE ON APAC S&MKAPAC AU) <ASTRID.WARNER@siemensgamesa.com>

**Subject:** [EXTERNAL] RE: Seeking CFA advice on appropriateness of Fire Emergency Response Plan and Development Plan (for Woolsthorpe Wind Farm)

Hi Hugh,

Many thanks for the email received including updated FERP dated 15 May 2019 Version 4 and Development/Site plan for review..

CFA makes the following comments;

### **FERP – Version 4 dated 15 May 2019**

CFA is satisfied that the Fire Emergency Response Plan Version 4 dated 15 May 2019 meets the requirements of Condition 15e of Planning Permit 2006/0220/A subject to the following amendments –

#### **Section 4.7 – Site Access**

Dot point 1 – Perimeter road is not shown on the Development plan – Please identify on the plan

Dot point 3 – Amend to 'Constructed internal roads to have a minimum trafficable width of 5 metres with a 4 metre vertical clearance for the width of the formed road surface.'

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#### **Section 4.8 – Water supply for fire fighting**

Clarification from previous correspondence – 2 x 22500 Litre tanks are required (not 2 x 25000 litre tanks).

### **Site Plan / Construction Compound Plan**

CFA is satisfied that the Overall Site Plan and Construction Compound Plan dated 15 May 2019 meets the requirements of Condition 1k) & 3o) of Planning Permit 2006/0220/A subject to the following amendments –

#### **Site Plan**

Due to the distance of approximately 4.5 km from one end of the site to the other, CFA require one of the 22500 Litre static water tanks to be located adjacent the Substation compound thereby providing fire appliances options for water filling on the site and reducing the time to travel back and forward to the main Construction Compound. Site plan to be updated to reflect this requirement. Both static water tanks are to be fitted with the storz tree as indicated in FERP V4 Appendix A dated 15 May 2019.

#### **Construction Compound**

Plan to be updated to reflect 1 x 22500 static tank located within the compound.

The foot note on the plan regarding static water supplies to be updated to reflect locations.

NB - Additional static water directional signage will need to be installed to clearly identify both static water tank locations on the site.

If you have any queries please don't hesitate to contact me.

Regards



**Peter Hamilton - Fire Safety Coordinator**

Fire & Emergency Management

61-63 Separation Street (PO Box 586) , North Geelong 3215

T: 03 5240 2712 M: 0457 989 301

E: [p.hamilton@cfa.vic.gov.au](mailto:p.hamilton@cfa.vic.gov.au)

Protecting lives and property



[cfa.vic.gov.au](http://cfa.vic.gov.au)

---

**From:** Griggs, Hugh [mailto:Hugh.Griggs@jacobs.com]

**Sent:** Wednesday, 15 May 2019 5:30 PM

**To:** Peter Hamilton; Fire Safety Referrals

**Cc:** 'Chowdhury, Debjani (SGRE ON APAC PR PD6)'; vaskewthornton@moyne.vic.gov.au; Dave Allen; katelynn@klmn.com.au; Burn, Phillip; stewart.steven.s@edumail.vic.gov.au; cozens4@activ8.net.au; Warner, Astrid (SGRE ON APAC S&MKAPAC AU)

**Subject:** Seeking CFA advice on appropriateness of Fire Emergency Response Plan and Development Plan (for Woolsthorpe Wind Farm)

Hi Peter

Further to your/CFA review of the Fire Emergency Response Plan (FERP) for the Woolsthorpe Wind Farm on 17.4.2019 (**attached**) + your phone call with Dave Allen from Siemens (my client) this morning-

Can the CFA please provide the following:

#### **Re-review of the FERP**

The FERP has been updated to meet your review advice. Thanks for providing this clear advice in such a timely manner.

As a point of clarification, the FERP states there will be 2 x 22,500L tanks = 45,000L total (it is assumed the 17.4.2019 CFA advice's reference to 2 x 25,000L tanks was a typo as it also referenced to 45,000L as per the CFA Guidelines).

Additionally, FERP has also been updated to remove the reference/requirement for passing bays – please see FERP Version 4 **attached**. It is considered specific passing bays are not required as:

- the roads will be 5m in width ( I understand you indicated to Dave Allen this morning that the provision of 5-6m wide roads would mean passing bays are not required for this site),
- the hardstand areas adjacent to the wind turbines (located approximately every 350m) can be utilised for vehicle passing, and
- it is understood the requirement for passing bays is generally imposed in heavily forested/constrained areas where passing is not possible – this site is cleared farming land.

Can the CFA please review the FERP and provide emailed advice stating:

- a) the CFA has reviewed the FERP (Revision 4, dated 15 May 2019) and,
- b) the CFA considers this document achieves the requirements of Condition 15e of the Planning Permit and generally supports its contents.

\*As per yesterday's below email: The Planning Permit requires Moyne Shire and DELWP to also be consulted on the FERP. This consultation is now occurring. If these agencies require any updates the FERP will be updated and the CFA will be provided the final version. Once all agency comments have been incorporated the Minister for Planning's approval of the FERP will be sought.

### **Review of the Development Plans**

Condition 1k of the Planning Permit requires: *access tracks within the site designed in consultation with the CFA that provide appropriate access for fire fighting vehicles to the satisfaction of the Minister for Planning.* Condition 3o of the Planning Permit requires: *a minimum of 45,000 litres of water to be used solely for fire fighting purposes must be provided on the site in not more than two tanks. The tanks must meet the access and outlet requirements specified in Condition 15 e) (ii).*

**Attached** are a) Overall Site Plan and b) Construction Compound Layout Plan (dated 15 May 2019) – these plans show the overall access track and tank locations and the specifications of the tracks.

Can the CFA please review the plans and provide emailed advice stating:

- a) the CFA has reviewed the a) Overall Site Plan and b) Construction Compound Layout Plan (Dated 15 May 2019) and,
- b) the CFA considers these plans achieves the requirements of Condition 1k and 3o of the Planning Permit and generally supports their contents.

Regards  
Hugh

Hugh Griggs, MPIA | Jacobs | Senior Land Use Planning Consultant – Environment and Spatial | 0438 252 388 | [hugh.griggs@jacobs.com](mailto:hugh.griggs@jacobs.com) | [www.jacobs.com](http://www.jacobs.com)

---

**From:** Griggs, Hugh

**Sent:** Tuesday, 14 May 2019 12:45 PM

**To:** [stewart.steven.s@edumail.vic.gov.au](mailto:stewart.steven.s@edumail.vic.gov.au); [cozens4@activ8.net.au](mailto:cozens4@activ8.net.au)

**Cc:** 'Chowdhury, Debjani (SGRE ON APAC PR PD6)' <[debjani.chowdhury@siemensgamesa.com](mailto:debjani.chowdhury@siemensgamesa.com)>;

[vaskewthornton@moyne.vic.gov.au](mailto:vaskewthornton@moyne.vic.gov.au); Dave Allen <[daveallenbsd@bigpond.com](mailto:daveallenbsd@bigpond.com)>; [p.hamilton@cfa.vic.gov.au](mailto:p.hamilton@cfa.vic.gov.au);

[katelynn@klmn.com.au](mailto:katelynn@klmn.com.au); Burn, Phillip <[Phillip.Burn@jacobs.com](mailto:Phillip.Burn@jacobs.com)>

**Subject:** Woolsthorpe Wind farm - CFA Consultation

Hi Steve and Simon

Further to Dave's below email:

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### Background and actions to date

-Jacobs has prepared a Fire Emergency Response Plan (FERP) to achieve compliance with Condition 15e of the Planning Permit for Woolsthorpe Wind Farm.

-On 15 April 2019 Jacobs provided a copy of the FERP to the CFA's Fire Safety Referrals Team ([firesafetyreferrals@cfa.vic.gov.au](mailto:firesafetyreferrals@cfa.vic.gov.au)) seeking its review. Jacobs sought advice from that section of the CFA as per the requirement of Section 1.2 of the CFA's 'Guidelines for Renewable Energy Installations' (December 2018, attached an exert below):

*The design team should consult with CFA as a key stakeholder early in the planning and design phase to ensure that CFA can consider the implications of the design on emergency response. Plans for the facility can be forwarded to CFA for consideration prior to a consultation meeting. Documentation is to be submitted to [firesafetyreferrals@cfa.vic.gov.au](mailto:firesafetyreferrals@cfa.vic.gov.au).*

-On 17 April 2019 CFA's Peter Hamilton (Fire Safety Coordinator, Fire & Emergency Management, North Geelong) replied stating satisfaction with the FERP, subject to minor changes being made (see advice **attached**). Please note I have cc'd Peter to this email.

-The CFA's requested changes have been made and the document has been updated as Version 3 (attached). Therefore it is considered the CFA is satisfied with the FERP.

### Next steps

-The Planning Permit requires Moyne Shire and DELWP to also be consulted on the FERP. This consultation is now occurring. If these agencies require any updates the FERP will be updated and the CFA will be provided the final version. Once all agency comments have been incorporated the Minister for Planning's approval of the FERP will be sought.

-As required by Condition 1k of the Permit, the wind farm's access tracks are to be designed in consultation with the CFA. The access tracks have been designed to meet the requirements of the CFA's 2018 Guidelines. The access tracks have recently be slightly relocated - a copy of the development plan showing the locations and details of the access tracks will shortly be provided to [firesafetyreferrals@cfa.vic.gov.au](mailto:firesafetyreferrals@cfa.vic.gov.au) seeking its satisfaction.

-As per Dave's email, and the Consultation Section of the FERP (see extract below), the wind farm operator will facilitate a familiarisation visit to the Project Site for the local CFA (which presumably may include Steve and Simon):

*Within three months of commencement of the operation of the WWF, the operator will facilitate a familiarisation visit to the Project Site and provide an explanation of the emergency procedures for:*

- The CFA - including representatives from headquarters, Operations Managers / Officers in Regional and District offices and local volunteer brigade
- Rural Ambulance Victoria
- Moyne Shire Council's Municipal Emergency Management Committee
- Victoria Police.

I am happy to discuss any of the above.

Regards  
Hugh

Hugh Griggs, MPIA | Jacobs | Senior Land Use Planning Consultant – Environment and Spatial | 0438 252 388 | [hugh.griggs@jacobs.com](mailto:hugh.griggs@jacobs.com) | [www.jacobs.com](http://www.jacobs.com)

---

**From:** Dave Allen <[daveallenbsd@bigpond.com](mailto:daveallenbsd@bigpond.com)>  
**Sent:** Tuesday, 14 May 2019 11:33 AM  
**To:** [stewart.steven.s@edumail.vic.gov.au](mailto:stewart.steven.s@edumail.vic.gov.au); [cozens4@activ8.net.au](mailto:cozens4@activ8.net.au)  
**Cc:** 'Chowdhury, Debjani (SGRE ON APAC PR PD6)' <[debjani.chowdhury@siemensgamesa.com](mailto:debjani.chowdhury@siemensgamesa.com)>;  
[vaskewthornton@moyne.vic.gov.au](mailto:vaskewthornton@moyne.vic.gov.au); Griggs, Hugh <[Hugh.Griggs@jacobs.com](mailto:Hugh.Griggs@jacobs.com)>  
**Subject:** [EXTERNAL] FW: Woolsthorpe Wind farm - CFA Contacts

Good morning Steve and Simon,

I work for Siemens Gamesa Renewable Energy and am the Project Engineer for Woolsthorpe Wind Farm. Our team from Jacobs are currently preparing Development Plans, Environmental Plans and Traffic Management Plans for the project, and will be in contact with you shortly to discuss your local knowledge and get advice on fire matters affecting the wind farm.

FYI

I tried calling you both this morning to introduce myself and bring you up to date on the Project however:

- Steve - Your home line has been disconnected and your mobile was probably out of range & not answering.
- Simon – I left a message on your mobile.

### OVERVIEW

The Wind Farm Project has nearly completed the Development Phase and once approved by the Planning Minister is expected to enter the Construction Phase in July / August 2019. Our Construction Team, ( from Bulgana Wind Farm @ Ararat) will mobilise then, and are well versed with fire safety and response.

They look forward to meeting you to discuss all fire issues and concerns, in order to make our site safe, plus help you out fighting any threatening fires in proximity.

In the meantime, please feel free to discuss high level matters with our Jacobs representatives and any other local fire related matters with me and the Siemens Gamesa Renewable Energy (SGRE) Team.

Looking forward to meeting you too.

Regards  
Dave Allen  
Project Engineer  
Woolsthorpe Wind Farm  
Siemens Gamesa Renewable Energy  
0414 192 497

---

**From:** Vicki Askew-Thornton [<mailto:vaskewthornton@moyne.vic.gov.au>]  
**Sent:** Tuesday, 14 May 2019 10:34 AM  
**To:** Dave Allen  
**Cc:** [jason.quinn.ext@siemens.com](mailto:jason.quinn.ext@siemens.com); 'Warner, Astrid (SGRE ON APAC S&MKAPAC AU)'; 'Crowe, Steve Dominic (SGRE ON APAC S&MKAPAC AU)'; 'Chowdhury, Debjani (SGRE ON APAC PR PD6)'  
**Subject:** RE: Woolsthorpe Wind farm - CFA Contacts

Thanks Dave

The contacts are:

Steve Stewart – Hawkesdale CFA - Captain  
[stewart.steven.s@edumail.vic.gov.au](mailto:stewart.steven.s@edumail.vic.gov.au)  
0427 607 248  
Home - (03) 55 607255

Simon Cozens – Woolsthorpe CFA - Captain  
[cozens4@activ8.net.au](mailto:cozens4@activ8.net.au)  
0429 186 097  
(03) 55 608505

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If you have any problems making contact, please let me know.

Regards

**Vicki Askew-Thornton**  
**Major Projects Liaison and Economic Development**



**MOYNE SHIRE COUNCIL**

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E – [vaskewthornton@moyne.vic.gov.au](mailto:vaskewthornton@moyne.vic.gov.au)

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---

**From:** Dave Allen <[daveallenbsd@bigpond.com](mailto:daveallenbsd@bigpond.com)>  
**Sent:** Tuesday, 14 May 2019 9:39 AM  
**To:** Vicki Askew-Thornton <[vaskewthornton@moyne.vic.gov.au](mailto:vaskewthornton@moyne.vic.gov.au)>  
**Cc:** [jason.quinn.ext@siemens.com](mailto:jason.quinn.ext@siemens.com); 'Warner, Astrid (SGRE ON APAC S&MKAPAC AU)' <[astrid.warner@siemensgamesa.com](mailto:astrid.warner@siemensgamesa.com)>; 'Crowe, Steve Dominic (SGRE ON APAC S&MKAPAC AU)' <[steve.crowe@siemensgamesa.com](mailto:steve.crowe@siemensgamesa.com)>; 'Chowdhury, Debjani (SGRE ON APAC PR PD6)' <[debjani.chowdhury@siemensgamesa.com](mailto:debjani.chowdhury@siemensgamesa.com)>  
**Subject:** Woosthorpe Wind farm - CFA Contacts

Hi Vicki,  
Thanks for taking my call this morning.  
As mentioned in correspondence tabled at last Fridays Community Consultation Meeting.  
Would you provide the contact details for local CFA Captains in the Woolsthorpe Area:

1. Steve Stewart
2. Simon Cousins

My plan is to Contact them personally and update them on the Project, plus we have commissioned Jacobs to prepare a Fire Emergency Response Plan (FERP) so they would enjoy discussing specifics with both Captains.

Regards  
Dave Allen  
Project Engineer  
Woolsthorpe Wind Farm  
Siemens Gamesa Renewable Energy  
0414 192 497

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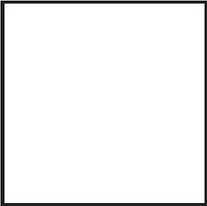
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**Griggs, Hugh**APPROVED FOR THE  
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SHEET 32 OF 41

**From:** Griggs, Hugh  
**Sent:** Friday, 26 April 2019 5:18 PM  
**To:** BSW.Planning@delwp.vic.gov.au  
**Cc:** jessie.mcmaster@delwp.vic.gov.au; claire.l.tesselaar@delwp.vic.gov.au; Geoff.Brooks@delwp.vic.gov.au; Williams, Adam; Dave Allen; sdekeizer@elec.nor.com; Katelyn Nash  
**Subject:** Seeking DELWP advice on draft 'Pest Animal Management Plan' and 'Fire Emergency Response Plan' (for Woolsthorpe Wind Farm)  
**Attachments:** Amended-permit-Woolsthorpe-wind-farm (May 2017).pdf; Pest Animal Mang Plan\_V1\_(Woolsthorpe Wind Farm).docx; WWF\_Fire Emerg. Response Plan\_V1 (15 April 2019).docx

Hi DELWP BSW Planning

The proposed Woolsthorpe Wind Farm is located in western Victoria. Work is now occurring to enable its construction to commence as soon as possible.

The wind farm has a planning permit (attached\*) which requires the following plans to be prepared in consultation with DELWP (it doesn't specify with portfolio of DELWP):

- Condition 15e, a Fire Emergency Response Plan (FER)
- Condition 15g, a Pest Animal Management Plan (PAMP)

A draft PAMP and FER to achieve the requirements of the planning permit have been prepared and are attached.

Can you (or if not your team, can you please suggest the applicable entity in DELWP?) please review the draft FER and PAMP and provide emailed advice stating:

- a) DELWP has reviewed the PAMP and FER and,
- b) DELWP considers these document achieve the requirements of Condition 15e and 15g of the Planning Permit and generally supports its contents.

After this advice has been received the FER and PAMP will be provided to the Minister for Planning seeking his endorsement of it.

Please note I am on leave from 29 April to 7 May. Please forward any advice to my colleague Adam Williams (cc'd).

\*The planning permit is currently being amended so that agencies (e.g. DELWP) are only required to be consulted on the chapters relevant to them – hence DELWP's comment is only sought on the attached chapters.

PS. Last time I spoke with your team I was perhaps working in Michael Juttner's DELWP WF team – not any more (in case any confusion!)

Regards  
Hugh

[Hugh Griggs, MPIA](mailto:hugh.griggs@jacobs.com) | [Jacobs](http://www.jacobs.com) | Senior Land Use Planning Consultant – Environment and Spatial | 0438 252 388 | [hugh.griggs@jacobs.com](mailto:hugh.griggs@jacobs.com) | [www.jacobs.com](http://www.jacobs.com)

Griggs, Hugh

APPROVED FOR THE  
MINISTER FOR PLANNING

**From:** Scott F Elliott (DELWP) <scott.elliott@delwp.vic.gov.au>  
**Sent:** Tuesday, 14 May 2019 10:14 AM  
**To:** Griggs, Hugh  
**Subject:** [EXTERNAL] RE: Woolsthorpe wind farm secondary consent documents

SHEET 33 OF 41

Thanks Hugh

Scott Elliott | Planning Approvals Program Officer | Barwon South West  
Forest, Fire and Regions | Department of Environment, Land, Water and Planning  
PO Box 105 703-709 Raglan Parade, Warrnambool, Victoria 3280  
T: 03 5561 9954 | M: 0428 343 501 | F: 03 5561 9988 | E: [scott.elliott@delwp.vic.gov.au](mailto:scott.elliott@delwp.vic.gov.au)  
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VICTORIA State Government Environment, Land, Water and Planning

Munganin Gadhaba 'Achieve Together'

Aboriginal Inclusion Plan 2016-2020

We acknowledge Victorian Traditional Owners and their Elders past and present as the original custodians of Victoria's land and waters and commit to genuinely partnering with them and Victoria's Aboriginal community to progress their aspirations.

VICTORIA State Government Environment, Land, Water and Planning

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**From:** Griggs, Hugh <Hugh.Griggs@jacobs.com>  
**Sent:** Monday, 13 May 2019 8:08 PM  
**To:** Scott F Elliott (DELWP) <scott.elliott@delwp.vic.gov.au>  
**Cc:** daveallenbsd@bigpond.com; 'Warner, Astrid (SGRE ON APAC S&MKAPAC AU)' <ASTRID.WARNER@siemensgamesa.com>; Chowdhury, Debjani (SGRE ON APAC PR PD6) <Debjani.Chowdhury@siemensgamesa.com>  
**Subject:** RE: Woolsthorpe wind farm secondary consent documents

Hi Scott

Further to the below emails, please find attached:

- BAM Plan for Woolsthorpe Wind Farm (Please note that this is not final and subject to minor changes).
- Risk Assessment which supplements the BAM Plan.

\*Please note: Jacobs is not seeking approval/review of the attached documents, they are provided for background reference to assist with DELWP's provision of any advice on the 'Pest Animal Management Plan' and 'Fire Emergency Response Plan'.

Regards  
Hugh

Hugh Griggs, MPlA | Jacobs | Senior Land Use Planning Consultant – Environment and Spatial | 0438 252 388 | [hugh.griggs@jacobs.com](mailto:hugh.griggs@jacobs.com) | [www.jacobs.com](http://www.jacobs.com)

**From:** Griggs, Hugh  
**Sent:** Friday, 10 May 2019 8:53 AM  
**To:** Scott F Elliott (DELWP) <[scott.elliott@delwp.vic.gov.au](mailto:scott.elliott@delwp.vic.gov.au)>  
**Cc:** [daveallenbsd@bigpond.com](mailto:daveallenbsd@bigpond.com); 'Warner, Astrid (SGRE ON APAC S&MKAPAC AU)' <[ASTRID.WARNER@siemensgamesa.com](mailto:ASTRID.WARNER@siemensgamesa.com)>  
**Subject:** RE: Woolsthorpe wind farm secondary consent documents

Hi Scott

Thanks for the quick phone call on Wed 8 May regarding the above. As discussed:

Updated version of EMP subplans

- On 26 April I sought DELWP Env Portfolio advice on the 'Pest Animal Management Plan' and 'Fire Emergency Response Plan' (see request email attached).
- In the interim, other agencies have provided review advice and the documents have been updated accordingly.
- You requested to be provided these updated versions of the docs, they are attached.
- As per request in attached email, please provide review advice of the docs attached to this email.

BAM and Native Veg Mang Plan

- You requested to see a copy of the BAM Plan. Jacobs is not preparing this document – I, or the entity preparing it, will try to get you a copy asap.
- You requested to see a copy of the Native Veg Mang Plan. The permit does not require such, therefore this document has not been prepared relating to the Permit.

Regards  
Hugh

Hugh Griggs, MPIA | Jacobs | Senior Land Use Planning Consultant – Environment and Spatial | 0438 252 388 | [hugh.griggs@jacobs.com](mailto:hugh.griggs@jacobs.com) | [www.jacobs.com](http://www.jacobs.com)

---

**From:** Scott F Elliott (DELWP) <[scott.elliott@delwp.vic.gov.au](mailto:scott.elliott@delwp.vic.gov.au)>  
**Sent:** Tuesday, 7 May 2019 11:25 AM  
**To:** Griggs, Hugh <[Hugh.Griggs@jacobs.com](mailto:Hugh.Griggs@jacobs.com)>  
**Subject:** [EXTERNAL] Woolsthorpe wind farm secondary consent documents

Hi Hugh

I work within the DELWP Environment area in the Barwon South West region as part of the Planning & Approvals team and am currently coordinating the region's review of the Fire Emergency Response Plan and Pest Plant and Animal Management Plan.

I'm just enquiring whether the BAM Plan and the native veg management plan have been prepared and submitted to DELWP as yet or they are still to be submitted to DELWP?

Any advice would be appreciated.

Many thanks

Scott Elliott | Planning Approvals Program Officer | Barwon South West  
Forest, Fire and Regions | Department of Environment, Land, Water and Planning  
PO Box 105 703-709 Raglan Parade, Warrnambool, Victoria 3280  
T: 03 5561 9954 | M: 0428 343 501 | F: 03 5561 9988 | E: [scott.elliott@delwp.vic.gov.au](mailto:scott.elliott@delwp.vic.gov.au)  
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# Munganin Gadhaba 'Achieve Together'

Aboriginal Inclusion Plan 2016–2020



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Jacobs' Energy, Chemicals and Resources business is now part of Worley

Griggs, Hugh

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MINISTER FOR PLANNING  
SHEET 36 OF 41

**From:** Scott F Elliott (DELWP) <scott.elliott@delwp.vic.gov.au>  
**Sent:** Friday, 10 May 2019 9:22 AM  
**To:** Griggs, Hugh  
**Subject:** [EXTERNAL] RE: Woolsthorpe wind farm secondary consent documents

Thanks Hugh

I will circulate the fire emergency response plan to our Forest Fire Operations area for comment and await receipt of the BAM plan.

Regards

Scott Elliott | Planning Approvals Program Officer | Barwon South West  
Forest, Fire and Regions | Department of Environment, Land, Water and Planning  
PO Box 105 703-709 Raglan Parade, Warrnambool, Victoria 3280  
T: 03 5561 9954 | M: 0428 343 501 | F: 03 5561 9988 | E: [scott.elliott@delwp.vic.gov.au](mailto:scott.elliott@delwp.vic.gov.au)  
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The banner features a teal header with the website [delwp.vic.gov.au](http://delwp.vic.gov.au) and the Victoria State Government logo. Below the header, the text reads "Munganin Gadhaba 'Achieve Together' Aboriginal Inclusion Plan 2016-2020". To the right, there are social media icons for Facebook, Twitter, LinkedIn, YouTube, and Instagram. Below the main text, there are two small images: the Australian flag and the Aboriginal flag. To the right of these flags is a quote: "We acknowledge Victorian Traditional Owners and their Elders past and present as the original custodians of Victoria's land and waters and commit to genuinely partnering with them and Victoria's Aboriginal community to progress their aspirations." To the right of the quote is a colorful Aboriginal artwork. At the bottom, there are social media icons for Facebook, Twitter, LinkedIn, YouTube, and Instagram, and the Victoria State Government logo.

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**From:** Griggs, Hugh <Hugh.Griggs@jacobs.com>  
**Sent:** Friday, 10 May 2019 8:53 AM  
**To:** Scott F Elliott (DELWP) <scott.elliott@delwp.vic.gov.au>  
**Cc:** daveallenbsd@bigpond.com; 'Warner, Astrid (SGRE ON APAC S&MKAPAC AU)' <ASTRID.WARNER@siemensgamesa.com>  
**Subject:** RE: Woolsthorpe wind farm secondary consent documents

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MINISTER FOR PLANNING  
SHEET 37 OF 41

Regards  
Hugh

Hugh Griggs, MPIA | Jacobs | Senior Land Use Planning Consultant – Environment and Spatial | 0438 252 388 | [hugh.griggs@jacobs.com](mailto:hugh.griggs@jacobs.com) | [www.jacobs.com](http://www.jacobs.com)

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**From:** Scott F Elliott (DELWP) <[scott.elliott@delwp.vic.gov.au](mailto:scott.elliott@delwp.vic.gov.au)>  
**Sent:** Tuesday, 7 May 2019 11:25 AM  
**To:** Griggs, Hugh <[Hugh.Griggs@jacobs.com](mailto:Hugh.Griggs@jacobs.com)>  
**Subject:** [EXTERNAL] Woolsthorpe wind farm secondary consent documents

Hi Hugh

I work within the DELWP Environment area in the Barwon South West region as part of the Planning & Approvals team and am currently coordinating the region’s review of the Fire Emergency Response Plan and Pest Plant and Animal Management Plan.

I’m just enquiring whether the BAM Plan and the native veg management plan have been prepared and submitted to DELWP as yet or they are still to be submitted to DELWP?

Any advice would be appreciated.

Many thanks

Scott Elliott | Planning Approvals Program Officer | Barwon South West  
Forest, Fire and Regions | Department of Environment, Land, Water and Planning  
PO Box 105 703-709 Raglan Parade, Warrnambool, Victoria 3280  
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Jacobs' Energy, Chemicals and Resources business is now part of Worley

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SHEET 38 OF 41

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**From:** Scott F Elliott (DELWP) <[scott.elliott@delwp.vic.gov.au](mailto:scott.elliott@delwp.vic.gov.au)>  
**Sent:** Friday, 26 July 2019 11:21 AM  
**To:** Griggs, Hugh <[Hugh.Griggs@jacobs.com](mailto:Hugh.Griggs@jacobs.com)>  
**Subject:** [EXTERNAL] Woolsthorpe Wind Farm comments  
**Importance:** High

Hi Hugh

Please find comments below on Fire Emergency Response Plan from our Forest, Fire and Regions program area.

In regards to the pest plant and animal management plan, DELWP Environment in the BSW region have no further comment to make on the plan.

Regards

Scott Elliott | Planning Approvals Program Officer | Barwon South West  
**Forest, Fire and Regions | Department of Environment, Land, Water and Planning**  
PO Box 105 703-709 Raglan Parade, Warrnambool, Victoria 3280  
T: 03 5561 9954 | M: 0428 343 501 | F: 03 5561 9988 | E: [scott.elliott@delwp.vic.gov.au](mailto:scott.elliott@delwp.vic.gov.au)  
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---

**From:** Michael C Davies (DELWP)  
**Sent:** Friday, 14 June 2019 11:04 AM  
**To:** Scott F Elliott (DELWP) <[scott.elliott@delwp.vic.gov.au](mailto:scott.elliott@delwp.vic.gov.au)>  
**Cc:** [ben.hammond@parks.vic.gov.au](mailto:ben.hammond@parks.vic.gov.au)  
**Subject:** REMINDER: FOR YOUR COMMENT- Woolsthorpe Wind Farm Fire Emergency Response Plan

Hi Scott,

Looks ok, my only comment would to add an additional criteria to maintain a 4m wide strip of fuel reduced area where the grass height is maintained at or below 100mm over the Fire Danger Period, directly adjacent to the Woolsthorpe NCR.

Add the measurable of 'grass height to be at or below 100mm over the fire danger period' into section 4.6 where referring to 'fuel reduced areas'.

Ben, do you have anything else as the land manager?

Cheers

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SHEET 40 OF 41

**Michael Davies | Senior Forest Fire Management Officer - Emergency Preparedness | Far South West Forest, Fire and Regions | Department of Environment, Land, Water & Planning**  
12 Murray St, Heywood, Victoria 3304  
T: 03 5527 0404 | M: 0467 810 099 | F: 03 5527 1809 | E: [michael.davies@delwp.vic.gov.au](mailto:michael.davies@delwp.vic.gov.au)

Note: I do not work Wednesdays

[www.delwp.vic.gov.au](http://www.delwp.vic.gov.au)



---

**From:** Scott F Elliott (DELWP)  
**Sent:** Wednesday, 29 May 2019 09:51  
**To:** Michael C Davies (DELWP) <[michael.davies@delwp.vic.gov.au](mailto:michael.davies@delwp.vic.gov.au)>  
**Subject:** REMINDER: FOR YOUR COMMENT- Woolshorpe Wind Farm Fire Emergency Response Plan

Hi Michael

Are you able to follow up on my query below when you are back in the office.

Regards

**Scott Elliott | Planning Approvals Program Officer | Barwon South West Forest, Fire and Regions | Department of Environment, Land, Water and Planning**  
PO Box 105 703-709 Raglan Parade, Warrnambool, Victoria 3280  
T: 03 5561 9954 | M: 0428 343 501 | F: 03 5561 9988 | E: [scott.elliott@delwp.vic.gov.au](mailto:scott.elliott@delwp.vic.gov.au)  
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---

**From:** Scott F Elliott (DELWP)  
**Sent:** Friday, 10 May 2019 9:24 AM  
**To:** Michael C Davies (DELWP) <[michael.davies@delwp.vic.gov.au](mailto:michael.davies@delwp.vic.gov.au)>

**Subject:** FOR YOUR COMMENT- Woolshorpe Wind Farm Fire Emergency Response Plan  
**Importance:** High

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SHEET 41 OF 41

Hi Michael

Further to your email from Wes earlier this week, attached is an updated version of the above plan for your review/comment

Scott Elliott | Planning Approvals Program Officer | Barwon South West  
**Forest, Fire and Regions | Department of Environment, Land, Water and Planning**  
PO Box 105 703-709 Raglan Parade, Warrnambool, Victoria 3280  
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