MACINTYRE WIND FARM
BUSHFIRE MITIGATION PLAN



CONTROL

PREPARED BY	REVIEWED BY	APPROVED BY
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12-06-2026	15-06-2026	15-06-2026
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RECORD OF CHANGES

REV.	DATE	DESCRIPTION
01	11/06/2026	Initial release

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1. DEFINITIONS

TERM	DEFINITION
APZ	Asset Protection Zone (as defined by the LEC BMP, i.e. low fuel load area around an asset)
BMP	Bushfire Mitigation Plan (this Plan)
ERP	Emergency Response Plan
FDR	Fire Danger Rating (as defined by QFD)
LEC	Land and Environment Consultants Pty Ltd, Wynnum Queensland
MIWF	Macintyre Wind Farm
OEMP	Operational Environmental Management Plan
Plan	This document the MIWF Bushfire Mititation Plan
QFR	Queensland Fire and Rescue
QFD	Queensland Fire Department (the overarching Department of the fire services QFR and RFSQ)
QPWS	Queensland Parks and Wildlife Service
RFSQ	Rural Fire Service Queensland
SARA	State Assessment and Referral Agency
Site	MIWF
WTG	Wind Turbine Generator

2. RESPONSIBILITIES

POSITION	RESPONSIBILITIES
GENERAL MANAGER, NORTHERN OPERATIONS	Responsible for compliance with this Plan
SITE MANAGER	Responsible for the delivery of actions identified within this Plan
HEALTH AND SAFETY REPRESENTATIVE	As defined by relevant O&HS legislation
COMMUNITY & STAKEHOLDER ENGAGEMENT	The distribution of this Plan to relevant external stakeholders

3. DISTRIBUTION LIST

ROLE	DISTRIBUTION METHOD (EMAIL, WEBSITE, INTERNAL ETC…)
GENERAL MANAGER, NORTHERN OPERATIONS	INTERNAL
SITE MANAGER	INTERNAL
HEALTH AND SAFETY REPRESENTATIVE	INTERNAL
COMMUNITY & STAKEHOLDER ENGAGEMENT	INTERNAL
EXTERNAL WEBSITE UPDATE	WWW.COMMUNITY.ACCIONA.COM.AU/MACINTYRE
QFD DISTRICT AREA 20 (WARRICK) COMMANDER (Southern Region)	Jillian.Butler@fire.qld.gov.au

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1. PURPOSE

Acciona Energia (**AE**) has developed this Plan to support the Site's Environmental Management Plan, the sites Emergency Response Plan, as a requirement of the Macintyre Wind Farm State Assessment and Referral Agency (**SARA**) approvals (2010-19438 SDA and 211226521 SPD) and approved Bushfire Management Plans as prepared by Land Environment Consultants Pty Ltd.

This Plan captures material obligations as required by the approved Bushfire Management Plan prepared by LEC.

2. SCOPE

The scope of this document is limited to Site's assets and associated operational and maintenance practices undertaken at Site.

3. OBJECTIVE

AE is committed to reducing the risk of ignition from assets or practices under its control. This continues to be achieved by the application of various techniques including:

- an asset inspection program
- proactive operation and maintenance activities to reduce the risk of fire
- monitoring of plant and surrounding environment
- the prompt reporting of fires
- the safe and quick response for fire extinguishment

4. SETTING

4.1. SITE DESCRIPTION

Acciona Energia is the operator of the MIWF Site which is located on land approximately 15 kilometers South of Karara, 66 kilometers South Southwest of the Qld township of Warwick, and 55 kilometers Northeast of Inglewood.

Accees to Site is via Carbean Road however alternate access and egress for bushfire management is via Cement Mills, Hunters Hill, Inverary and Rabit Fence Roads.

The farm started operations in late 2024 and consists of 162 wind turbines, over 1521 ha, generating approximately 923 MW of clean energy. The farm is constructed on undulating land of mixed land use; including in proximity to the Durikai State Forest, however the majority is of mixed farming country. The location was selected due to the high exposure to consistent winds and proximity to the transmission network utilized to connect to the national grid.

The sites aerial photo details and other pertinent information is found in Appendix B.

Whilst constructed on partially cleared and undulating land, the site has been defined by State Government as a Bushfire Prone Area within QFD District area:

- QFD District 20 (Warrick) – Southern Region District

4.2. ASSET DESCRIPTION

The key assets located at the Site include:

NUMBER OF UNITS	ASSET	DESCRIPTION
2	Substations	The Project's substations each house 3x power transformer that converts the voltage from 33 kV to 330 kV and 1x STATCOM transformer 330kV/18kV. The substations transformers each rated at 90MVA and step up the voltage from 33kV to 330kV and connect to the Powerlink Network. Each substation has 3x switch buildings, which has separate, adjoining rooms for the 33kV indoor switchgear, the AC/DC power supplies and control equipment. Each Substation also has a control building which houses NO switchgear. The substation includes fully bunded foundations, pumping and oil/water separator facilities.
162	Wind Turbine Generators (**WTG**) D4000	WTG's have a generating capacity of 5.7 MW and comprise of a rotor (diameter 163m) and nacelle mounted on tall, tapered steel towers 148m above the ground. With a tip height of 285m The electrical generator itself is located within the nacelle at the top of the tower and the stator operates at 750VAC. The WTG Nacelle also contains the 750/33kV, Oil filled (Liquid cooled) Step Up Transformer that then supplies to the RMU in the WTG Base. Other control and utility circuits also operate within the nacelle but at lower voltages, supplied by a 750/400V Dry type Auxiliary Transformer. Thermal monitoring equipment, mechanical gearbox and hydraulic circuits with their associated hydraulic fluids and lubricating greases and oils are also located within the nacelle. The WTG's high voltage switchgear (Enclosed RMU) is located at the door ground level and contains 33kV Circuit Breaker protection and insulated with SF6 gas.
Up to 6	Met Masts	Meterological masts are strategically located around site and have a height of 148m
1	Operations and Maintenance facility	Facility contains offices, warehouse, and a base for all operational and maintenance activities on Site
Various	Underground cable	The Site's internal electrical reticulated system is underground, operating a 12kV connection from turbine internal switchgear to kiosk transformer and then at 33kV from the kiosk to one main 33/66kV substation. The underground power cables are buried at depth in trenches. Protective plates and warning tapes are laid at various depths to protect the cable and warn any ground disturbance activities of the presence of the cable. The cables themselves are heavily insulated, armoured, shielded and registered with Dial Before You Dig Australia.
0	Overhead powerlines	There are no overhead power lines under the Site's control.

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5. BUSHFIRE PREVENTION AND MITIGATION

This Plan outlines specific strategies and programmes to prevent and mitigate fires at the Site. This section lists the adopted preventative strategies and programmes to mitigate the risk of bushfire. The works required for each strategy are outlined below and are guided by Acciona's Risk Management procedures.

ACCIONA Energy has identified scenarios that could give rise to fire ignition:

- Contact by person(s) and/or equipment of energised equipment
- Contact by vegetation of energised equipment
- Mechanical or electrical failure of plant or equipment
- Open air operational activities (e.g. vehicle exhausts, and hot works etc).
- Smoking
- Lightening
- Criminal acts

The preventative strategies to reduce the risk of a fire starting onsite include:

- Regular inspection and maintenance of the site's assets, equipment, tools, and vehicles
- Fuel reduction management in proximity to identified assets
- Procedures and processes for site access and restricted / controlled activities for personnel onsite
- Physical barriers (fences) to restrict personnel
- Increased management during elevated fire risk conditions
- Utilisation of trained personnel to implement controls

The mitigative strategies to reduce the risk of a small fire becoming a larger fire include:

- Maintain and implement a site emergency response plans
- Inform and assist first responders including fire control agencies in the management and investigation of fires on site
- Maintain limited and basic fire fighting and response equipment on site
- Utilisation of trained personnel to implement controls

ACCIONA also welcomes the local fire brigades to participate in regular site familiarisation and exercises on the Site to improve their members knowledge.

5.1. ASSET STRATEGIES

The table below outlines some of the specific strategies to be implemented against each onsite asset.

ASSET	ACCESS	MAINTENANCE	INSPECTION
Substations	General site access controls and yard access is fenced, access is restricted, and gates locked. Fences are signed as per Australian Standards	Works are conducted in accordance with relevant procedures and policies. Plant and equipment maintained in good working order. Substation yard is covered with rock and regular weed management undertaken (either chemical and or	**Quarterly – housekeeping inspection.** Scope: - fence, gates, locks and signage inplace - asset is tidy and free from litter, fuel, vegetation and/or bird nests - bunding is free from fuel - other visible defects noted and

ASSET	ACCESS	MAINTENANCE	INSPECTION
		mechanical). Bunds in place and free from fuel. Aerial conductors is installed, maintained and functional. Lightning protection is installed maintained and functional. APZ of 35m from the yards fence line is maintained.	actioned/escalated as required
Wind Turbine Generators (**WTG**) D4000	General site access controls and WTG access is restricted, and doors locked. WTG's are signed as per Australian Standards	Works are conducted in accordance with relevant procedures and policies. Plant and equipment maintained in good working order. APZs of 15 or 25m (see table below) around the WTG base is covered with rock and regular fuel/weed management undertaken (either chemical and/or mechanical). Lightning protection is installed maintained and functional.	**Quarterly – housekeeping inspection.** Scope: - doors locked and signage inplace - fuel reduction area is in accordance with the APZ of at least 15 or 25m from the base of WTG (see table below) - asset is tidy and free from litter, fuel, and/or bird nests - other visible defects noted and actioned/escalated as required
Met Masts (live only)	General site access controls and electrical cabinet door locked.	Works are conducted in accordance with relevant procedures and policies.	**Six monhtly – housekeeping inspection.** Scope: - doors locked and signage inplace - asset is tidy and free from litter, fuel, and/or bird nests - other visible defects noted and actioned/escalated as required
Operations and Maintenance facility	General site access controls, compound is locked after normal business hours.	Works are conducted in accordance with relevant procedures and policies. Regular building maintenance is conducted periodically and in accordance with relevant standards. APZ of 35m from the yards fence line is maintained.	**Six monhtly – housekeeping inspection.** Scope: - doors locked and signage inplace - asset is tidy and free from litter, fuel, and/or bird nests - other visible defects noted and actioned/escalated as required - fuel reduction area is in accordance with the APZ of at least 35m from the yards fence line
Underground cable	Excavations control by Permit to Work System Asset registered with Before Your Dig Australia.	Active maintenance is not applicable as it's aburied asset.	N/A

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ASSET	ACCESS	MAINTENANCE	INSPECTION
Overhead powerlines	N/A	N/A	N/A
Site roads	General site acess	Periodic maintenance as required.	**Annual – housekeeping inspection.** Scope: -Trafficable road width of at least 4m -4.8m height clearance -1m on either side of road cleared of flammable vegetation -Reflective wayfinding signage at intersections to identify key infrastructure (static fire tanks, O&M facility etc…)

5.1.1. ASSET PROTECTION ZONES

Asset Protection Zones (**APZ**) are cleared of vegetation or with grass cover which is nominally < 10 cm in height (or as low as reasonably practicable). The table below outlines the width of the APZ in reference to each asset.

WIDTH OF ASSET PROTECTION ZONE				
Asset	10 meters	15 meters	25 meters	35 meters
MIWF	Nil	WTG's 2-5, 10, 13-14, 16-18, 21-22, 24, 26-34, 36-40, 42-44, 46-47, 50-54, 56-70, 86, 94-95, 100-101, 103, 105-106, 108-115, 118-122, 123, 172-174, 187-188, 190-192, 197-206, 207, 209-214, 236- 240, 243-248, 250-251, 253, 255-257, 263, 269, 274, 276, 278-279, 286, and 290-292, 296	WTG's 41, 49, 104, 186, 207, 216-220, 226-229, 233-235, 247, 249, 252, 254, 262, 264, 267-268, 275, 277 and 280-285.	MIWF substations, Operations and Maintenance facility.

5.2. OTHER PREVENTATIVE STRATEGIES

Smoking. Discarded cigerrets pose an ignition risk. Smoking on site is restricted. Areas where smoking is permitted are defined in the Site induction.

Service vehicles. Vehicles with hot exhausts and brakes pose an ignition risk. Drivers are to ensure their vehicles comply with relevant legislation. That is to:

- always keep their vehicle in good mechanical order
- use formed roads to limit contact with curing/cured grass or crops.

Plant and heavy vehicles. These are vehicles such as road maintenance machinery or grass slashing equipment that pose an ignition risk. Drivers are to ensure their vehicles comply with relevant Fire Restriction Legislation. That is to:

- ensure the vehicle is in proper working order and free from faults or defects that could cause an outbreak of fire
- be fitted with a spark arrester that complies with AS 1019
- carry prescribed fire suppression equipment. Which includes:

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- A fully charged knapsack with not less than 9 litres of water; **AND**
- A fully charged water (stored pressure) fire extinguisher that is fully changed and maintained

Hot Works. Hot works such as cutting, grinding and welding pose an ignition risk. Hot works are conducted in accordance with the Hot Works Procedure. Hot works are also subject to the following conditions as outlined in the LEC BMP:

- not permitted during catastrophic fire danger and / or Local Fire Ban days as declared by the QFD; unless permitted, in writing by the local QFD local fire warden (https://www.fire.qld.gov.au/sites/default/files/2021-05/Application-Permit-Light-Fire.pdf).
- not permitted in outdoor areas during extreme fire danger days as declared by QFD

Criminal Act. Criminal acts may include but are not limited to arson, malicious damage to plant or vehicle incidents. The site is fenced by farm fencing with the substation and facility surrounded by security fencing. Limited alarms are utilised onsite and are connected to the remote operating center.

Lighting Fires. Operation personnel will not light fires. The term 'lighting fires' does not include smoking, hot works eg. Welding grinding, soldering etc…

5.3. FIRE FIGHTING EQUIPMENT

Basic firefighting equipment is retained onsite to extinguish small fires. The equipment to be provided, maintained onsite include:

- Service vehicles
  - Vehicle mounted fire extinguisher
  - First aid kit
- Plant and heavy equipment
  - A fully charged knapsack with not less than 9 litres of water; **AND**
  - A fully charged water (stored pressure) fire extinguisher that is fully changed and maintained
- Substations hold
  - At least one 5 kg ABE powder-type, stored pressure fire extinguisher
- MIWF Operations and Maintenance Facility
  - Water Pump Trailer
  - Extinguishers (various)
  - Fire Water tanks (3 x 20,000 litre) – strategically located
  - Water tanks (2 x 10,000 litre) – general site use at the O&M facility

5.4. TRAINING

Firefighting is only to be attempted by personnel after they have reported the fire to QFD (via 000) and then only if it is safe to do so. Personnel shall have completed the following basic training, which is regularly refreshed.

Basic 'Fire Awareness' training which comprises of the following:

- Identification of risks & hazards
- Fire combustion and fire spread
- Fire prevention and extinguishment techniques
- Scenario-based practice exercise

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6. MANAGEMENT DURING ELEVATED FIRE RISK CONDITIONS

Acciona Energia takes a tiered approach to the management of fire risk which is generally informed by government bodies such as the Bureau of Meteorology, the Queensland Fire Department and Goondiwindi Regional and Sourthern Downs Regional Councils.

Prior to the fire danger season, readiness review activities with the intent of reducing risk as the fire season (typically August until consistent summer rainfall) approaches verification that:

- vehicles and buildings are appropriately stocked with serviced extinguishers, first aid kits and communication devices
- grass and fuel levels are managed around onsite buildings
- relevant Emergency Response Plan exercises have been scheduled
- onsite personnel qualification and training is reviewed
- liaison with local brigades (consider site familiarization, site use for exercise etc…)

When a catastrophic fire danger rating and/or Total Fire Ban, is declared by the QFD, Acciona Energia will with the intent of reducing fire risk:

- the site manager to consider risk and thus work locations
- vehicle operators to be confined to formed roadways
- hot works are not permitted (unless a written exception has been sought and received from Fire Warden - https://www.fire.qld.gov.au/safety-education/using-fire-outdoors/fire-wardens)

When site personnel become aware of a fire event in proximity to the site, Acciona Engeria will review the prevailing conditions and advice from the QFD to consider the following:

- activating the Emergency Response Plan and Procedure
- relocating staff to the maintenance facility
- full site evacuation; and,
- the utilization of Acciona's remote operating center to operate the site.

7. FIRE INVESTIGATION - FIRE INCIDENTS OR NEAR MISSES

All fire incidents and near misses will be investigated by ACCIONA. The investigation will use the companies established event investigation and reporting frameworks and process to identify the cause of the fire and the actions required to reduce further occurrences on a repeat incident.

Acciona Energia provides assistance to fire control authorities, as required, including in the investigation of fire on site.

8. COMPLIANCE AND MONITORING OF THE PLAN

The primary mechanism for monitoring conformance with this plan will be through compliance inspections and the Internal Audit program.

Upon the identification of non-conformances or where further actions may be necessary,

items will be managed as per ACCIONA Energy's Non-Conformance Procedure.

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8.1. IDENTIFYING DEFICIENCIES AND REVISING THE PLAN

This Plan is reviewed if there are material changes or deficiencies

identified by a variety of means such as:

- Regular review of this Plan by the Site Manager
- Reviews or recommendations by Regulators
- Audit findings
- Incidents and Investigations
- Changes in legislation, standards or industry practice, and Operational Changes.

9. RELATED DOCUMENTATION

CODE	TITLE
	Before You Dig Australia (BYD Australia)
	Queensland fire legislation and online guidance materials
PLN03_PAU01_GAE07006	Emergency Response Plan Operations and Maintenance
	Land Environment Consultants Bushfire Mitigation Plan (as approved by SARA)
	MIWF Operational Environmental Management Plan (OEMP)
	Macintyre Wind Farm State Assessment and Referral Agency approval - SARA reference 2010-19438 SDA
	Macintyre Wind Farm State Assessment and Referral Agency Change Decision Notice - SARA reference 2112-26521 SPD

***NOTE**: Complete the table with the documentation, legislation, regulations, etc. that is relevant to the document.*

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APPENDIX A – QFD RATINGS EXPLAINED

The **Fire Danger Rating** attempts to outline how a fire would behave if one started, including how difficult it would be to put out. The higher the rating, the more dangerous the conditions. The rating is a trigger to act, it is very important that readers do not confuse these ratings. This Appendix provides a brief explanation of rating system used by QFD.

CATASTROPHIC



What does it mean?

If a fire starts and takes hold, lives are likely to be lost.

- These are the most dangerous conditions for a fire.

What should I do?

For your survival, leave bushfire risk areas.

- Your life may depend on the decisions you make, even before there is a fire.
- For your survival, do not be in bushfire risk areas.
- Stay safe by going to a safer location early in the morning or the night before.
- Homes cannot withstand fires in these conditions. You may not be able to leave and help may not be available.

EXTREME



What does it mean?

Fires will spread quickly and be extremely dangerous.

- These are dangerous fire conditions.
- Expect hot, dry and windy conditions.

What should I do?

Take action now to protect your life and property

- Check your bushfire plan and that your property is fire ready
- If a fire starts, take immediate action. If you and your property are not prepared to the highest level, go to a safer location well before the fire impacts.
- Reconsider travel through bushfire risk areas.
- Leaving bushfire risk areas early in the day is your safest option.

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HIGH



What does it mean?

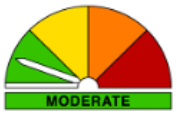
Fires can be dangerous.

What should I do?

Be ready to act.

- There's a heightened risk. Be alert for fires in your area.
- Decide what you will do if a fire starts.
- If a fire starts, your life and property may be at risk. The safest option is to avoid bushfire risk areas.

MODERATE



What does it mean?

Most fires can be controlled.

What should I do?

Plan and prepare.

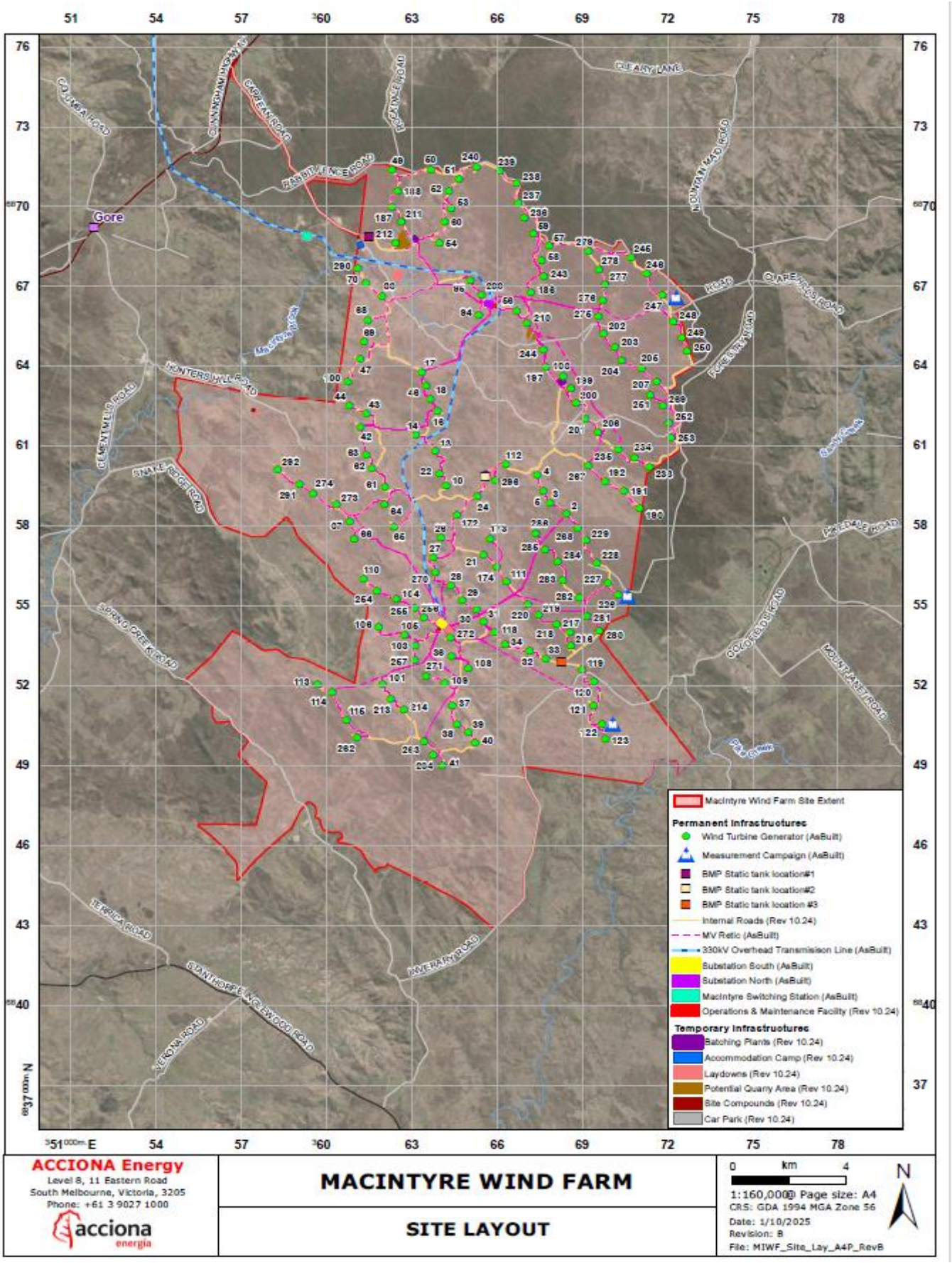
- Stay up to date and be ready to act if there is a fire.

NO RATING

The system also introduces an 'off' level for days where no proactive action is required by the community. This does not mean that fires cannot happen, but that they are not likely to move or act in a way that threatens the safety of the community. This rating is the thin white wedge on the colour wheel sitting under 'Moderate'.

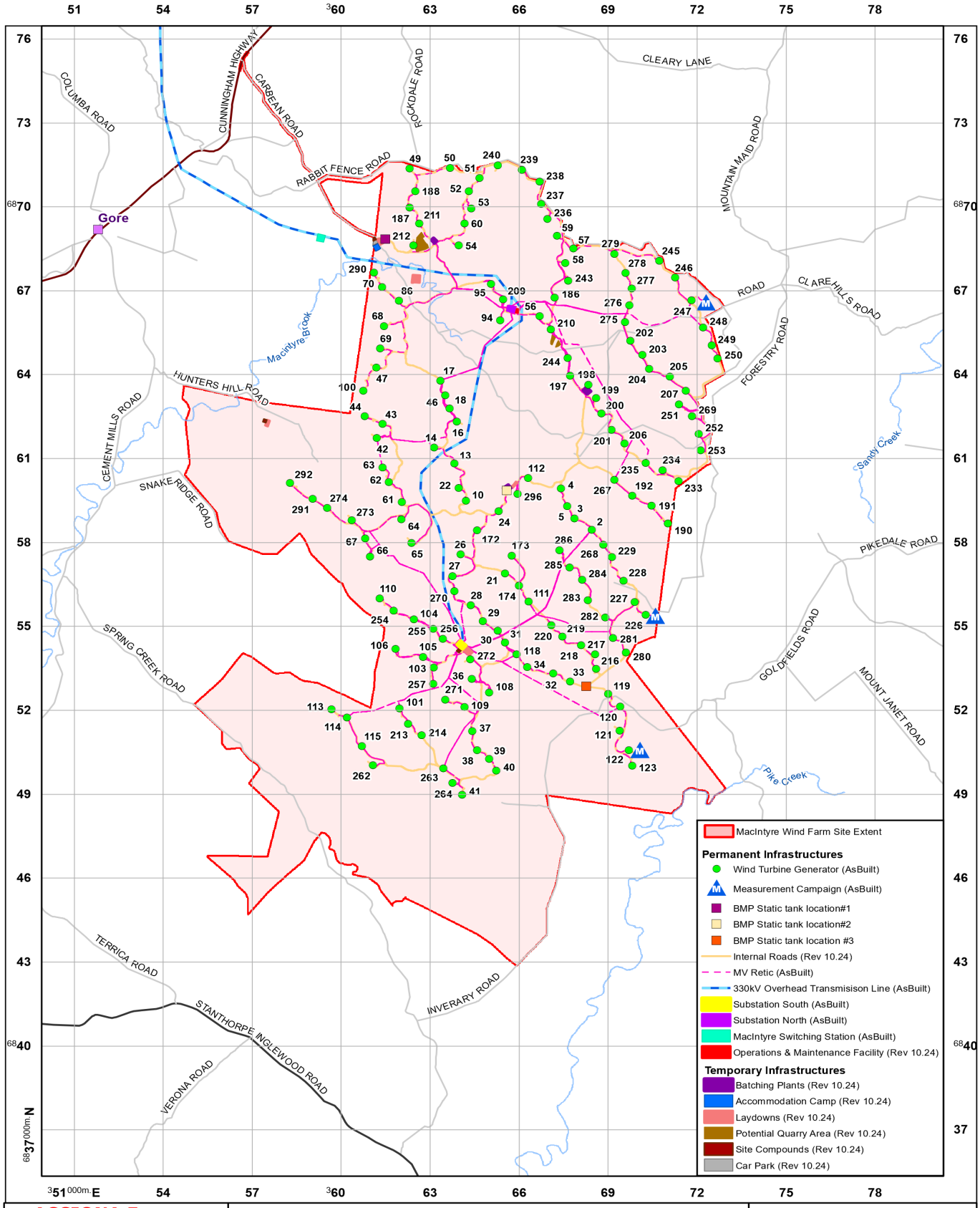
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APPENDIX B – WIND FARM LOCALITY AND FACILITY MAPS



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MACINTYRE WIND FARM

SITE LAYOUT

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