BARRO GROUP

BUSHFIRE MITIGATION PLAN (BMP)

This Bushfire Mitigation Plan (BMP) is required by law as an operator of overhead electric line in HBRA

Site: Barro Mountain View Quarry

Wyndham Vale Site

Issue Date: **05/03/2026**

AUTHORISED BY: **Jason Barrett**

Position: **Quarry Manager**

BMP Approved by (signature/date):

05/03/2026

_____ _____

Quarry Manager **Date**

Document Control

Version	Amendment Overview	Author & date
Initial Release	Collation of information for review based on ESV meeting 31.07.2025. with all parties	MAS. 12.08.2025.
Initial Release RevA	Initial document first draft circulated to all parties and comments, feedback incorporated	MAS 20.08.2025
For ESV Review RevB	Input from all parties in preparation of ESV review due 21.08.2025. Add site drawing with coordinates	MAS 21.08.2025.
For ESV Review RevC	Updated Operator details as requested by ESV	MAS 22.08.2025.
For ESV Review RevD	Updated Operator details as requested by ESV including ABN, Operator details and **Barro.** Survey Definitions added	MAS 29.08.2025.
For ESV Review RevE	Updated ESV File "Document - 20250919 - Barro BMP RevE Summary of Findings.pdf" included	MAS 19.10.2025.
For ESV Review RevF	Updated ESV File "Document - 20250919 - Barro BMP RevF Summary of Findings 16.11.2025.pdf" included & meetings	MAS 18.12.2025.
For ESV Review RevG	Updated ESV File "Document – 20260305 - Barro BMP RevG" ESV feedback 20.02.2026.	MAS 05.03.2026.

Contents

1.0 Introduction

The purpose of this Bushfire Mitigation Plan (BMP) is to ensure:

- safe operation and maintenance of the High Voltage (22kV) overhead powerlines supplying electricity to the site as a High Voltage (HV) consumer
- meeting requirements of Regulation 6 of Electricity Safety (Bushfire Mitigation) Regulations 2023
- meeting requirements of s.83BA (3)(a) and s.83BA (3)(b) in Electricity Safety Act 1998
- the protection of employees and surrounding community,
- all infrastructure, and assets both off and on site are not impacted, and
- minimise environmental impacts.

The BMP provides specific requirements as outlined in the Electricity Safety Act 1998, specifically, but not limited to, s.83BA (3)(a) and s.83BA (3)(b).

The BMP provides specific requirements as outlined in the Electricity Safety (Bushfire Mitigation) Regulations. Specifically, but not limited to Regulation 6 as follows;

6 Prescribed particulars for bushfire mitigation plans—specified operators

For the purposes of section 83BA(2)(b) of the Act, the following are the prescribed particulars—

(a) the name, address, email address and telephone number of the specified operator;

(b) the position, address, email address and telephone number of the person who was responsible for the preparation of the plan;

(c) the position, address, email address and telephone number of the persons who are responsible for carrying out the plan;

(d) the email address (if any) and telephone number of the specified operator's control room so that persons in the room can be contacted in an emergency that requires action by the specified operator to mitigate the danger of bushfire;

(e) the bushfire mitigation policy of the specified operator to minimise the risk of fire ignition from its at-risk electric lines;

(f) the objectives of the plan to achieve the mitigation of fire danger arising from the specified operator's at-risk electric lines;

(g) a description, map or plan of the land to which the bushfire mitigation plan applies, identifying the location of the specified operator's at-risk electric lines;

(h) the preventative strategies and programs to be adopted by the specified operator to minimise the risk of the specified operator's at-risk electric lines starting fires;

(i) a plan for inspection that ensures that all of the specified operator's at-risk electric lines are inspected at regular intervals of no longer than 37 months;

(j) details of the processes and procedures for ensuring that each person who is assigned to carry out the inspections referred to in paragraph (i)—

(i) has satisfactorily completed a training course approved by Energy Safe Victoria; and

(ii) is competent to carry out the inspections;

(k) details of the processes and procedures for ensuring that persons (other than persons referred to in paragraph (j)) who carry out or will carry out functions under the plan are competent to do so;

(l) the operation and maintenance plans for the specified operator's at-risk electric lines—
(i) in the event of a fire; and
(ii) during a total or partial fire ban day; and
(iii) during a fire danger period;

(m) the investigations, analysis and methodology to be adopted by the specified operator for the mitigation of the risk of fire ignition from its at-risk electric lines;

(n) details of the processes and procedures by which the specified operator will—
(i) monitor the implementation of the bushfire mitigation plan; and
(ii) audit the implementation of the plan; and
(iii) identify any deficiencies in the plan or the plan's implementation; and
(iv) change the plan and the plan's implementation to rectify any deficiencies identified under subparagraph (iii); and
(v) monitor the effectiveness of inspections carried out under the plan; and
(vi) audit the effectiveness of inspections carried out under the plan;
(o) the policy of the specified operator in relation to the assistance to be provided to fire control authorities in the investigation of fires near the specified operator's at-risk electric lines

2.0 Definitions

Term	Definition
Electricity Safety (Bushfire Mitigation) Regulations Definitions	
Australian/New Zealand Wiring Rules	***Australian/New Zealand Wiring Rules*** means AS/NZS 3000, Australian/New Zealand Standard, 'Electrical installations', as published or amended from time to time;
Automatic Circuit Recloser	***Automatic Circuit Recloser*** has the same meaning as in section 120K of the Act;
bare open wire or bare	***bare open wire or bare*** has the same meaning as in the Electricity Safety (General) Regulations 20194;
electric line construction area	***electric line construction area*** means land delineated and shown bounded by an orange line on plans lodged in the Central Plan Office and numbered LEGL./16-199 to LEGL./16-231;
fire danger period	***fire danger period*** means a period declared under section 4 of the **Country Fire Authority Act 1958** to be a fire danger period;
high impedance faults	***high impedance faults*** means a resistance value in ohms that is equal to twice the nominal phase-to-ground network voltage in volts;
I2t	***I2t*** means a measure of the thermal energy associated with the current flow, where **I** is the current flow in amps and **t** is the duration of current flow in seconds;
low impedance faults	***low impedance faults*** means a resistance value in ohms that is equal to the nominal phase-to-ground network voltage in volts divided by 31·75;
low voltage	***low voltage*** has the same meaning as in the Electricity Safety (General) Regulations 2019;
polyphase electric line	***polyphase electric line*** has the same meaning as in section 120K of the Act;
required capacity	***required capacity*** means, in the event of a phase-to-ground fault on a polyphase electric line, the ability—

	(a) to reduce the voltage on the faulted conductor in relation to the station earth when measured at the corresponding zone substation for high impedance faults to 250 volts within 2 seconds; and (b) to reduce the voltage on the faulted conductor in relation to the station earth when measured at the corresponding zone substation for low impedance faults to— (i) 1900 volts within 85 milliseconds; and (ii) 750 volts within 500 milliseconds; and (iii) 250 volts within 2 seconds; and (c) during diagnostic tests for high impedance faults, to limit— (i) fault current to 0·5 amps or less; and (ii) the thermal energy on the electric line to a maximum I2 value of 0·10;
SWER line	***SWER line*** has the same meaning as in section 120K of the Act;
the Act	***the Act*** means the **Electricity Safety Act 1998**;
total or partial fire ban day	***total or partial fire ban day*** means a day or partial day that has been declared to be a day or partial day of total fire ban under section 40(1) of the **Country Fire Authority Act 1958**;
wholly or substantially replaced	***wholly or substantially replaced*** means the planned replacement or relocation of an electric line that involves— (a) the relocation of at least 4 consecutive spans of the electric line; or (b) the replacement of conductors on at least 4 consecutive spans of the electric line.
Electricity Safety Act Definitions	
at-risk electric line	***at-risk electric line*** means an electric line (other than a private electric line) that is— (a) above the surface of land; and (b) in a hazardous bushfire risk area;
specified operator	***specified operator*** means the operator of an at-risk electric line but does not include a major electricity company.
Barro Specific Definitions	
Competent person	A person who has acquired through training, qualification or experience the knowledge and skills to carry out the task.
Work Authority	Means a Work Authority granted under section 77I of the Mineral Resources (Sustainable Development) Act 1990.
Work Plan	The ***Work plan*** is the primary document describing the permitted activities to be undertaken on a work authority. It is intended to provide guidance to operations staff at the quarry as well as informing other interested parties such as council or government officers in order to facilitate decisions, approvals, compliance, and enforcement functions. It must be clear, concise and contain sufficient detail to enable a reader to understand the activities proposed to be undertaken at the site, their potential risks and impacts, and the control or management actions required.
Site Survey Specific Definitions	
Point ID	***Point ID*** is a unique identifier for each above ground private pole within the private network.
Latitude	***Latitude*** is a geographic coordinate that specifies the north–south position of a point on the Earth's surface. Measured in degrees (°) from the Equator

	(0°), with values ranging from +90° at the North Pole to –90° at the South Pole.
Longitude	***Longitude*** is a geographic coordinate that specifies the east–west position of a point on the Earth's surface. Measured in degrees (°) from the Prime Meridian (0°) in Greenwich, England, with values ranging from +180° east to –180° west.
Datum	***Datum*** is a reference framework or mathematical model of the Earth used for mapping and surveying. GDA2020 (Geocentric Datum of Australia 2020) is Australia's current standard datum. It aligns Australia's coordinate system with global navigation systems (like GPS) by accounting for the tectonic drift of the Australian continent.
Zone	***Zone*** is a section of the Earth's surface used in the UTM (Universal Transverse Mercator) coordinate system. Each zone is 6° of longitude wide and provides a Cartesian grid for accurate local mapping. Example: MGA Zone 55 (Map Grid of Australia, Zone 55) covers part of south-eastern Australia, including Victoria. MGA is the Australian implementation of UTM, based on the GDA datum.
Hemisphere	***Hemisphere*** is Half of the Earth's surface, divided either by the Equator (into Northern and Southern Hemispheres) or by the Prime Meridian/180th meridian (into Eastern and Western Hemispheres). Australia lies in the Southern Hemisphere and the Eastern Hemisphere.

3.0 Regulation 6 Prescribed particulars for bushfire mitigation plans - specified operators

3.1 Regulation 6 (a) Operator Contact Details

(a) the name, address, email address and telephone number of the specified operator;

Specified Operator Details

Barro Group Pty Limited (ACN 005 105 724) as trustee for THE BARRO GROUP TRUST SETTLOR MARIE TERESE WILLEY (ABN 25 553 947 414)

Throughout this document Barro Group Pty Limited is referred to as **Barro**

Barro
ACN 005 105 724
191 Drummond Street
Carlton, 3053
Victoria, Australia
Phone: (03) 8656 3900
Email: barro@barro.com.au

Site Operator Contact Details

Jason Barrett
Quarry Manager Victoria
Barro
Mountain View Quarry Wyndham Vale
Spring Plains Road

Wyndham Vale, 3024
Victoria, Australia
Phone: (03) 9974 1100
Mobile: 0419 558 809
Email: jason.barrett@barro.com.au

Barro is the asset owner of the at-risk line assets.

The accepted BMP will be published on **Barro's** website. This BMP can be accessed by navigating from the **Barro** website home page at the following web address:

https://barro.com.au/

3.2 Regulation 6 (b) BMP Preparation Contact Details

(b) the position, address, email address and telephone number of the person who was responsible for the preparation of the plan;

Jason Barrett
Quarry Manager
Barro
Mountain View Quarry Wyndham Vale
Spring Plains Road
Wyndham Vale, 3024
Victoria, Australia
Phone: (03) 9974 1100
Mobile: 0419 558 809
Email: jason.barrett@barro.com.au

A copy of the BMP is available at the **Barro** Head Office address below

Barro
ACN 005 105 724
191 Drummond Street
Carlton, 3053
Victoria, Australia
Phone: (03) 8656 3900
Email: barro@barro.com.au

Office Hours 9.00am – 5.00pm

Contact: Jason Barrett

3.3 Regulation 6 (c) BMP Implementation Contact Details

(c) the position, address, email address and telephone number of the persons who are responsible for carrying out the plan;

Jason Barrett
Quarry Manager Victoria
Barro
Mountain View Quarry Wyndham Vale
Spring Plains Road

Wyndham Vale, 3024
Victoria, Australia
Phone: (03) 9974 1100
Mobile: 0419 558 809
Email: jason.barrett@barro.com.au

3.4 Regulation 6 (d) Control Room Contact Details

(d) the email address (if any) and telephone number of the specified operator's control room so that persons in the room can be contacted in an emergency that requires action by the specified operator to mitigate the danger of bushfire;

Power is supplied to the quarry by Powercor at 22kV from Spring Planes Road, Wyndham Vale. The power is connected to an SM6 switching and metering assembly by an underground cable that runs from the Powercor power pole to the SM6 assembly (see attached drawing 69456-HV-UAM01.pdf in Appendix).

The cable head pole is the property of Powercor.

All power poles, aerial conductors and assets on the **Barro** site are owned, operated and the responsibility of **Barro**.

For 24 hour emergency isolation contact **Barro** at:

24 Hour Site Contact

Jason Barrett
Quarry Manager Victoria
Barro
Mountain View Quarry Wyndham Vale
Spring Plains Road
Wyndham Vale, 3024
Victoria, Australia
Phone: (03) 9974 1100
Mobile: 0419 558 809
Email: jason.barrett@barro.com.au

3.5 Regulation 6 (e) Specified Operator Bushfire Mitigation Policy

(e) the bushfire mitigation policy of the specified operator to minimise the risk of fire ignition from its at-risk electric lines;

Barro is the specified operators of the site, and its bushfire mitigation policy is a strong commitment to minimise the risk of fire ignition. This includes preventing asset failures, clearing faults, avoiding contact with the at-risk lines (such as animal, vegetation, vehicle/machinery, conductor clashing), complying with Electricity Safety Act 1998 and Electricity Safety (Bushfire Mitigation) Regulations, insulation and undergrounding.

Gordyn & Palmer are currently the approved HV Operators for the site.

Only properly qualified and authorised persons are allowed to operate, maintain and test the HV equipment installed at **Barro** Wyndham Vale quarry.

All operations, maintenance and testing on the high voltage distribution, in addition to this document, shall be done in accordance with (but not limited to):

- Code of Practice of Electrical Safety for Work On or Near High Voltage Electrical Apparatus (The Blue Book) Victoria
- Victorian Occupational Health and Safety Act
- Guidelines for Electrical Safety in Quarries – Office of The Chief Electrical Inspector Victoria
- Victorian Service and Installation Rules (SIR)
- Powercor rules and procedures for high voltage customer installations

All operations, maintenance, testing and faults on the high voltage distribution shall be logged and reported, in particular:

- Formal inspections and tests (covering the equipment, type of inspection or test, the inspection/test date and the results)
- Repair register (covering the equipment, the date, the nature of the repair and who carried out the repair)
- A record of faulty equipment and equipment removed from service
- Every instance of the operation of the main circuit breaker under fault conditions including the reasons for the operation and action taken by the operator

3.6 Regulation 6 (f) BMP Objectives

(f) the objectives of the plan to achieve the mitigation of fire danger arising from the specified operator's at-risk electric lines;

The objectives of this BMP are to:

- Achieving vegetation line clearances to Code, ensuring compliance to Electricity Safety (Electric Line Clearance) Regulations, Regulation 7: Prescribed Code of Practice
- **Barro** shall maintain the sound condition of the assets covered by this BMP plan.
- Minimise the risk of fire starts from electrical assets including all aerial conductors, transformers and associated equipment
- Achieve compliance with the relevant legislative and regulatory requirements while providing flexibility within the business to encourage innovation, continuous improvement, and the effective use of resources
- **Barro** responsibilities to the management of the risk of bushfires caused by the HV assets associated with the at-risk electric line assets, irrespective of whether these are HV or LV, including contractor roles and responsibilities
- Demonstrate a high level of commitment to meeting bushfire mitigation responsibilities, including a strong commitment to a proactive maintenance regime

Contractors undertaking any aspect of HV operations must comply with the following:

- Complete **Barro** contractor pre-qualification process and be approved
- All contractor's workers complete the **Barro** induction and the relevant site induction
- Provide safe work method statements with evidence of training and competency and licencing (where applicable) for all tasks authorised to undertake
- Where a contractor is engaged to undertake HV works the **Barro** BMP must be complied with in full.

The Quarry Manager is responsible for ensuring that any contractor undertaking HV operations complies with **Barro** contractor management procedures including signing in, inductions, SWMS, training, licencing and competency.

3.7 Regulation 6 (g) BMP Area Map and Boundaries

(g) a description, map or plan of the land to which the bushfire mitigation plan applies, identifying the location of the specified operator's at-risk electric lines;

Barro has no exemptions from Electricity Safety (Bushfire Mitigation) Regulations in relation to this BMP and the risk of bushfires caused by the HV assets associated with the at-risk electric line assets, irrespective of whether these are HV or LV.

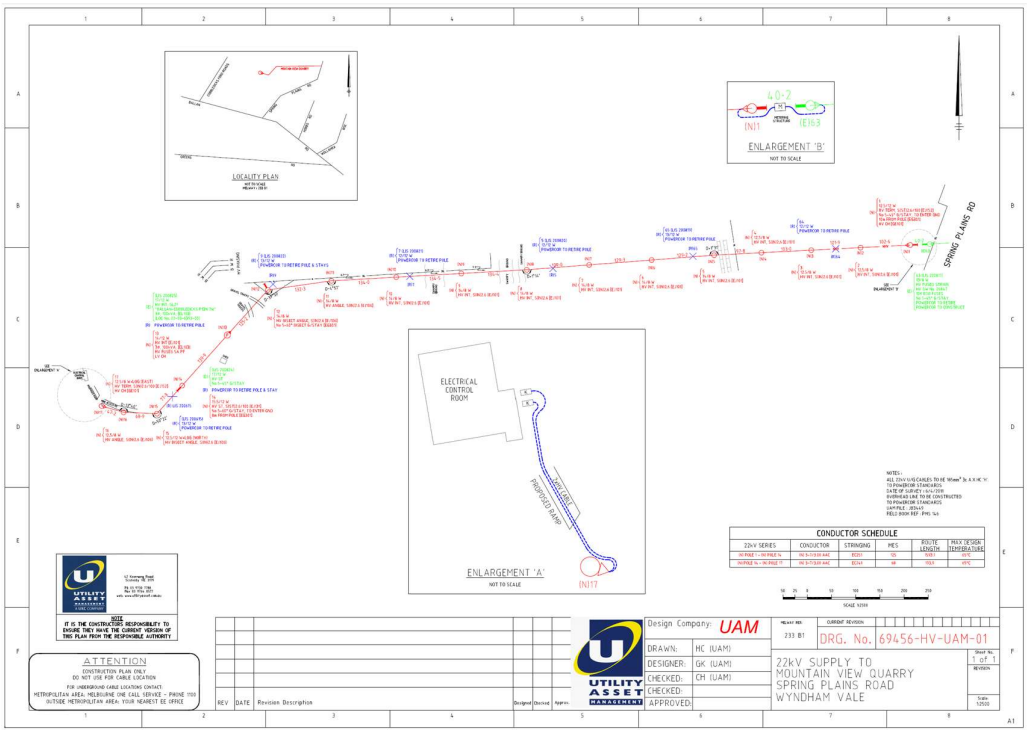
The site is a hard Rock quarry operation, and land is predominantly hard rock with very little vegetation.

The attached drawing, (Ref: 22176-FINAL-AS CONSTRUCTED PLAN V2.pdf) prepared by Powerplant provides a surveyed route, including Geocentric Datum of Australia 2020 (GDA2020) GDA 2020 MGA 55 Datum and Zone coordinates of the HV aerials and assets. Due to the file size and details a copy of the drawing is included in the Attachments.

At Risk Line Covered by this BMP		
Voltage: 22,000Volts (22kV)		
Total Length 1,787.1 Metres		
Conductor AAC: All Aluminium Conductor		
Year of Installation 2010		
Name	**Asset Description**	**Conductor**
Pole 01	POLE 1 LIS 751310 12.5/12 WOOD 22kV 3PH TERMINATION STRUCTURE S(ST)2.6/100 X-ARM 22kV 3PH UNDERGROUND CABLE HEAD POLE DIRECT CONNECTION STRUCTURE NUMBER 5-42° INLINE STAY (150mm BELOW X-ARM) SEPARATE HV EARTH NOTE: * HV DROPPERS TO OUTDOOR TERMINATION JOINT ARE BARE (APPEARS 19/STRAND) AAC CONDUCTOR COVERED BY 'STINGER' (OR SIMILAR) INSULATION.	3 - 7/3.00 AAC
Pole 02	POLE 2 LIS 751311 12.5/8 WOOD 22kV 3PH INTERMEDIATE VERTICAL INSULATOR 'TRIDENT' STRUCTURE US20 X-ARM, 12-SHED INSULATORS	3 - 7/3.00 AAC
Pole 03	POLE 3 LIS 751313 12.5/8 WOOD 22kV 3PH INTERMEDIATE VERTICAL INSULATOR 'TRIDENT' STRUCTURE US20 X-ARM, 12-SHED INSULATORS	3 - 7/3.00 AAC
Pole 04	POLE 4 12.5/8 WOOD 22kV 3PH INTERMEDIATE VERTICAL INSULATOR 'TRIDENT' STRUCTURE US20 X-ARM, 12-SHED INSULATORS	3 - 7/3.00 AAC
Pole 05	POLE 5 LIS 751316 14/8 WOOD 22kV 3PH INTERMEDIATE VERTICAL INSULATOR 'TRIDENT' STRUCTURE US20 X-ARM, 12-SHED INSULATORS 3-PHASE 100kVA POLE MOUNTED SUBSTATION (EAST SIDE OF POLE) 22kV, 6k BORIC ACID FUSES (WEST SIDE OF X-ARM) SEPARATE HV & LV EARTHING LV CH VIA FSD (N.C.), FSD ON SOUTH SIDE OF POLE NOTE: * DROPPERS APPEAR TO BE COVERED CONDUCTOR NOT XLPE/INSULATED	3 - 7/3.00 AAC
Pole 06	POLE 6 14/8 WOOD 22kV 3PH INTERMEDIATE VERTICAL INSULATOR 'TRIDENT' STRUCTURE US20 X-ARM, 12-SHED INSULATORS	3 - 7/3.00 AAC
Pole 07	POLE 7 LIS 785568 14/8 WOOD 22kV 3PH INTERMEDIATE VERTICAL INSULATOR 'TRIDENT' STRUCTURE US20 X-ARM, 12-SHED INSULATORS	3 - 7/3.00 AAC

Pole 08	POLE 8 14/8 WOOD 22kV 3PH INTERMEDIATE VERTICAL INSULATOR 'TRIDENT' STRUCTURE US20 X-ARM, 12-SHED INSULATORS	3 - 7/3.00 AAC
Pole 09	POLE 9 14/8 WOOD 22kV 3PH INTERMEDIATE VERTICAL INSULATOR 'TRIDENT' STRUCTURE US20 X-ARM, 12-SHED INSULATORS	3 - 7/3.00 AAC
Pole 10	POLE 10 14/8 WOOD 22kV 3PH INTERMEDIATE VERTICAL INSULATOR 'TRIDENT' STRUCTURE US20 X-ARM, 12-SHED INSULATORS	3 - 7/3.00 AAC
Pole 11	POLE 11 14/8 WOOD 22kV 3PH INTERMEDIATE VERTICAL INSULATOR 'TRIDENT' STRUCTURE US20 X-ARM, 12-SHED INSULATORS	3 - 7/3.00 AAC
Pole 12	POLE 12 14/8 WOOD 22kV 3PH BISECT ANGLE VERTICAL INSULATOR 'TRIDENT' STRUCTURE US20 X-ARM, 12-SHED INSULATORS NUMBER 5-55° BISECT GROUND STAY (150mm BELOW X-ARM)	3 - 7/3.00 AAC
Pole 13	POLE 13 14/12 WOOD 22kV 3PH INTERMEDIATE VERTICAL INSULATOR 'TRIDENT' STRUCTURE US20 X-ARM, 12-SHED INSULATORS 22kV 3PH UNDERGROUND CABLE HEAD TO KIOSK SUBSTATION CABLE HEAD POLE DIRECT CONNECTION STRUCTURE NOTE: * HV DROPPERS TO OUTDOOR TERMINATION JOINT ARE BARE (APPEARS 19/STRAND) AAC CONDUCTOR COVERED BY 'STINGER' (OR SIMILAR) INSULATION.	3 - 7/3.00 AAC
Pole 14	POLE 14 15.5/12 WOOD 22kV 3PH STRAIN (BRIDGED) STRUCTURE S(ST)2.6/100 X-ARM NUMBER 5-62° IN-LINE GROUND STAY (150mm BELOW X-ARM)	3 - 7/3.00 AAC
Pole 15	POLE 15 12.5/12 WOOD 22kV 3PH BISECT ANGLE VERTICAL INSULATOR 'TRIDENT' STRUCTURE US20 X-ARM, 12-SHED INSULATORS	3 - 7/3.00 AAC
Pole 16	POLE 16 12.5/8 WOOD 22kV 3PH ANGLE VERTICAL INSULATOR 'TRIDENT' STRUCTURE US20 X-ARM, 12-SHED INSULATORS	3 - 7/3.00 AAC
Pole 17	POLE 17 12.5/8 WOOD 22kV 3PH TERMINATION STRUCTURE S(ST)2.6/100 X-ARM WITH 5-SHED DRESS-OVER INSULATORS TO 2x 22kV 3PH UNDERGROUND CABLE HEAD POLE DIRECT CONNECTION STRUCTURE HV SEPARATE EARTH NOTE: * HV DROPPERS TO OUTDOOR TERMINATION JOINT ARE BARE (APPEARS 19/STRAND) AAC CONDUCTOR COVERED BY 'STINGER' (OR SIMILAR) INSULATION.	3 - 7/3.00 AAC

The following drawing details the site 22kV supply to the **Barro**, Mountain View Quarry, Spring Plains Road, Wyndham Vale, 3024, Victoria.



CFA Fire Hazard Ratings for Electric lines

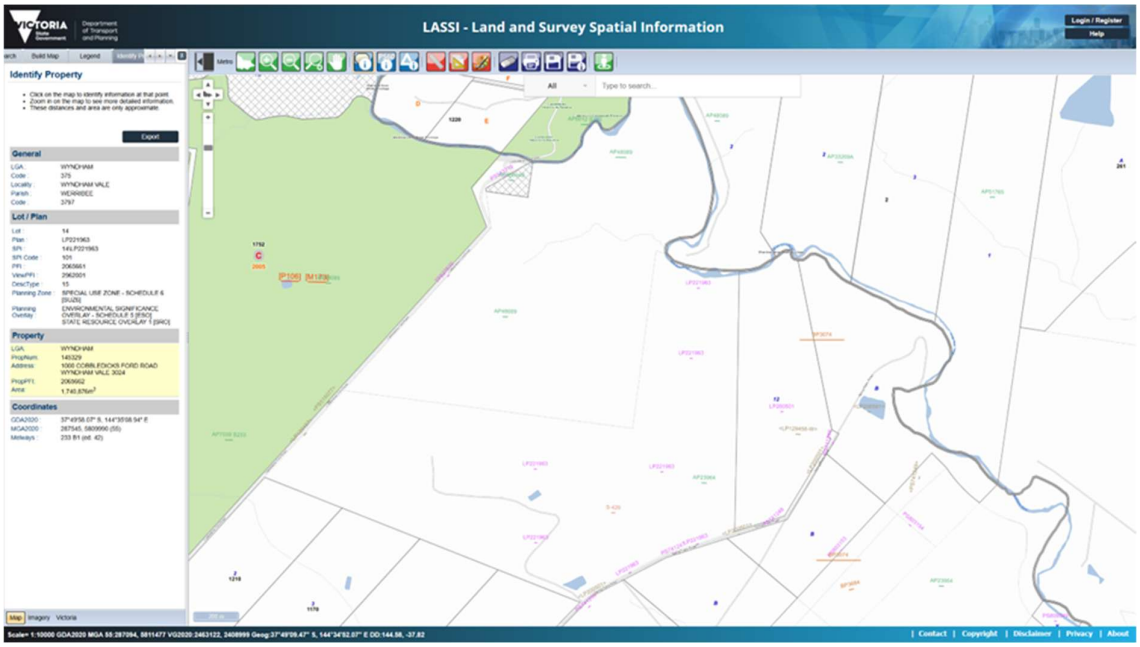
CFA maintains a GIS data base that shows the Low Bushfire Risk Areas (LBRA) and the High Bushfire Risk Areas (HBRA) in relation to electric lines. For Local Government and Power Companies please note that the LBRA GIS data layer is available for download on the Data.Vic. website, Low Bushfire Rating Areas.

The electric assets covered in the BMP are located in HBRA as highlighted in red in the following image.

HBRA

LBRA

The following LASSI map and table provides information of Barro Mountain View Quarry, Wyndham Vale site's land.



LGA	WYNDHAM	WYNDHAM
LGA_CODE	375	375
Locality	WYNDHAM VALE	WYNDHAM VALE
Parish	WERRIBEE	WERRIBEE
Parish Code	3797	3797
Lot	14	12
Plan	LP221963	LP200501
SPI	14\LP221963	12\LP200501
SPI Code	101	101
PFI	2065661	202672730
View PFI	2962001	202672729
Description Type	15	15
Property LGA	WYNDHAM	WYNDHAM
Property Number	145329	144014
Address	1000 COBBLEDICKS FORD ROAD WYNDHAM VALE 3024	1000 BALLAN ROAD WYNDHAM VALE 3024
Property PFI	2065662	427742137
Area	1740876	3144527
MGA2020	287545, 5809990 (55)	288272, 5810221 (55)
GDA2020	37°49'58.07" S, 144°35'08.94" E	37°49'51.2" S, 144°35'38.88" E
MELWAY	233 B1 (ed. 42)	233 D1 (ed. 42)

3.8 Regulation 6 (h) BMP Preventative Strategies

(h) the preventative strategies and programs to be adopted by the specified operator to minimise the risk of the specified operator's at-risk electric lines starting fires;

Barro shall utilise Unifii Health, Safety, Environment and Safety (HESQ) software to ensure to manage, flag, and provide real time status of maintenance and preventative strategies.

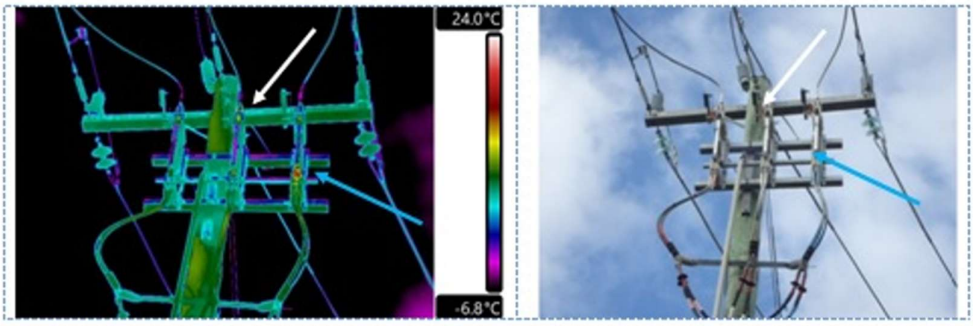
Barro shall ensure preventative strategies are adopted throughout the site including the inspection of all at-risk electric lines, irrespective of whether these assets are HV or LV.

Barro is currently working on an Electric Line Clearance Plan (ELCMP). The ELCMP shall be prepared before 31 March 2026. **Barro** completes an annual weed spraying program including the vicinity surrounding the assets associated with the at-risk electric line assets, irrespective of whether these are HV or LV.

Barro shall complete all thermographic inspections annually from the ground utilising a high definition camera to detect, document and record all defects. Binoculars shall also be utilised from ground level to enhance detection of visual defects.

The thermographic survey report shall include an infrared camera to provide visual imagery of surface temperature variances. A standard image shall be included for reference to the asset. The report shall include the associated details, rectification priority, faulty component and temperature and a recommendation to address any potential issues.

A sample of a typical thermographic report is included below for reference purposes.



ITEM #:	**1**
Priority:	***P3***

	See Item 1 last report
Location:	**Outside FVTS Terminal Station**
Plant:	Pole 1, 111-ABS-004
Equipment:	Air Break Switch (Insulect Rocker Switch 12/24KV, 1000A)
Faulty component:	Top White phase 4 bolt Palm join and bottom Blue phase isolator hinged contact are warm.
Fault Temperature:	Top: Red 7°C, **White 13°C,** Blue 7°C Bottom: Red 7°C, White 7°C, **Blue 26°C**
Reference Temperature:	7°C
Temperature Difference:	**Up to 19°C**
Recommendation:	Monitor for change. Check resistance at White phase top palm join and ensure a good clean and tight connection. If the switch is dis-engaged and re-engaged, check that contacts are connecting properly. Use thermal imaging to confirm low resistance contact points under load.
Corrective Action:	By: Date:

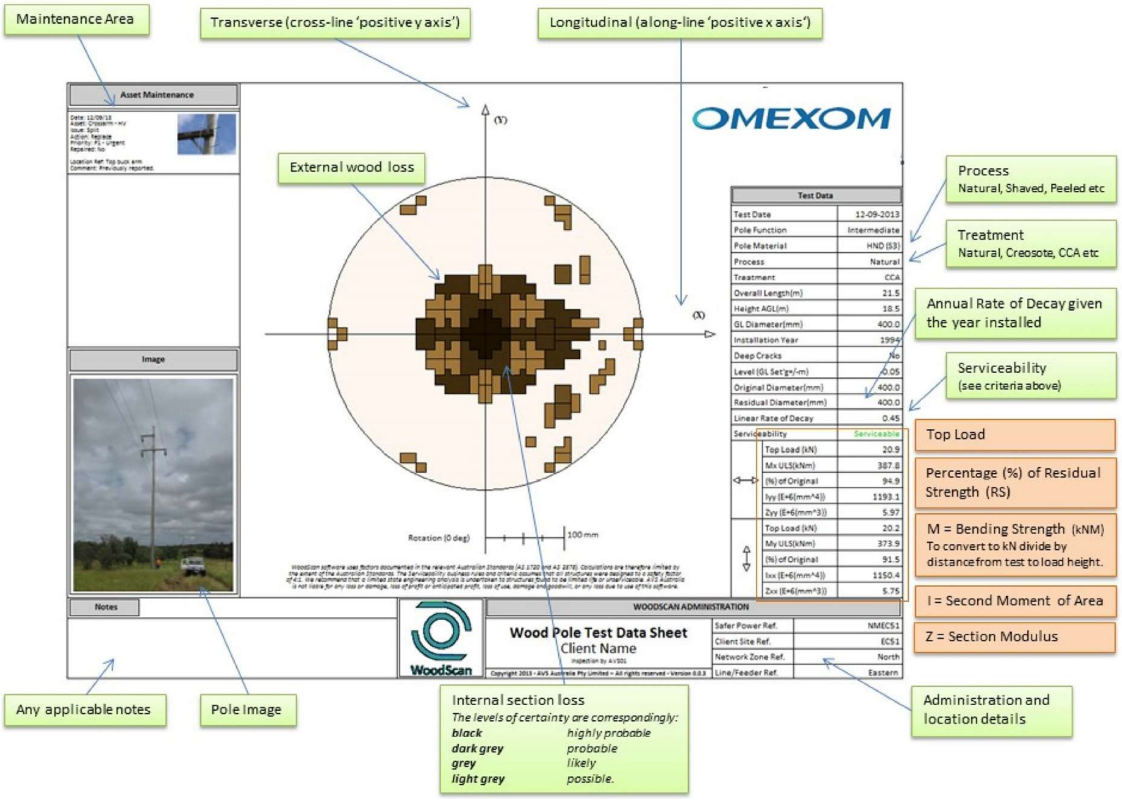
Barro shall complete at-risk line asset inspections, including every timber pole inspections, every three years.

Wood scanning shall be completed on every timber pole as part of the asset inspection.

Wood scanning techniques shall include excavation and digging 300mm below the ground part of each timber pole.

Pole remedial treatment shall start in 2028.

The wood scanning results shall typically include the following information in the asset report.



Barro shall ensure regular, routine maintenance is undertaken, including, but not limited to the following:

- The three yearly at-risk line asset inspection shall include all assets of the at-risk electric line.
- Thermography shall be included in the at-risk line inspection
- The proactive planning and maintenance of the at-risk line asset management is based principally on a whole of life approach that includes design, construction, operation, maintenance and decommissioning
- The annual governance systems of vegetation and asset inspection and maintenance activities are supported by a regime of reporting and auditing. Further details regarding auditing is outlined in section 3.14 Regulation 6 (n) Appropriate BMP Implementation and Auditing.
- The response aspects of the plan include our operational processes to faults and Total Fire Ban (TFB) days, asset failure investigations, and fire start reporting.
- The approved HV operators of the site shall proactively notify **Barro** of the proposed works required prior to works commencing to ensure asset accessibility and operational requirements are co-ordinated
- All works are documented and made available to an independent auditor to ensure ongoing compliance

Barro shall ensure a clear defects list is provided with all inspections, servicing and maintenance of the HV assets associated with the at-risk electric line assets, irrespective of whether these are HV or LV.

Barro shall ensure there is a clear process for managing identified defects. Defects will be prioritised and actioned in line with Barro's Risk Management framework as follows:

Faults and Condition Defects Priority, Description and Timeframe Legend		
Priority Class	Description (Potential finding or fault, but not limited to)	Timeframe
High Risk -	Identified finding or fault that could:	**Completion within 10 days**
Level 1	• Endanger life, cause a fire	
	• Risk to public safety or public assets	
	• Risk to assets or property that could result in loss of supply	
Medium Risk	A finding or fault that could result in:	**Completion within 6 months**
Level 2	• Ongoing loss of supply	
	• Result in an operational limitation	
	• Non-compliance with regulations or standards	
	• Contradiction with procedures	
Low Risk	A finding or fault;	**Completion within 14 months**
Level 3	• Highlight's a non-conforming item	
	• Procedural Management would be advantageous	
	• Medium term observation that improves management of the asset	
	• General improvement measure/observation	

Where permanent rectification cannot be completed within the specified timeframe, a documented engineering risk assessment must be undertaken according to "Hazard Identification and Risk Management Guideline - Jan 2026". The outcome of the risk assessment shall provide **Barro** with a clear process to re-assess the defect priority class including a revised completion timeframe. Any extension requires approval by the **Barro** Quarry Manager and must demonstrate that the bushfire risk has been reduced to as low as reasonably practicable.

3.9 Regulation 6 (i) BMP Ensuring Timely Compliance

(i) a plan for inspection that ensures that all of the specified operator's at-risk electric lines are inspected at regular intervals of no longer than 37 months;

Barro has completed an inspection of the at-risk electric lines in December 2025. The inspection includes the poles, aerial conductors, insulators, etc. and a thermographic survey as outlined above.

- **Barro** shall ensure routine maintenance is flagged and managed by a time based routine within the Computerised Maintenance Management System
- The approved site HV operator shall ensure routine maintenance is flagged and managed by a time based routine within the Computerised Maintenance Management System
- **Barro** shall ensure the at-risk electric line assets are inspected every three years and shall be flagged and managed by a time based routine within the Computerised Maintenance Management System.

3.10 Regulation 6 (j) ESV Approved and Competent Personnel for Inspections

(j) details of the processes and procedures for ensuring that each person who is assigned to carry out the inspections referred to in paragraph (i)—

(i) has satisfactorily completed a training course approved by Energy Safe Victoria; and
(ii) is competent to carry out the inspections;

Barro utilises Rapid Contractor Management software to ensure end to end contractor compliance including real time status of insurances, inductions and qualifications.

Rapid Contractor Management shall be utilised to ensure asset inspectors have completed a training course approved by Energy Safe, that is, "UET20621 Certificate II in ESI - Asset Inspection and Testing" or equivalent.

Barro shall utilise Rapid Contractor Management to ensure currency of qualifications including expiry contractor qualification dates, refresher training dates and site authorisation are compliant prior to site access or works. An alert shall be automatically generated pending the approach of qualification and refresher expiry dates to enable **Barro** proactively to request updated information from the authorised asset inspection contractor prior to attending the site.

Barro shall ensure a specific site induction prior to site access and works. A review of qualifications is required as part of the induction process to ensure the contractor is suitably qualified and trained to inspect the at-risk electric line assets, irrespective of whether these are HV or LV.

3.11 Regulation 6 (k) Processes and Procedures Ensuring Competent Personnel

(k) details of the processes and procedures for ensuring that persons (other than persons referred to in paragraph (j)) who carry out or will carry out functions under the plan are competent to do so;

Barro utilises Rapid Contractor Management software to ensure end to end contractor compliance including real time status of insurances, inductions and qualifications.

Barro does not directly employ HV Operator's, lineworker, qualified HV auditors, vegetation workers, asset inspectors or thermography surveyors. The **Barro** "Code of Conduct for Contractors" attached outlines the responsibilities and expectations of **Barro**.

Barro shall ensure a specific site induction prior to site access and works. A review of qualifications is required as part of the induction process to ensure the contractor is suitably qualified and trained to carry out work or will carry out functions under this BMP and the HV assets associated with the at-risk electric line assets, irrespective of whether these are HV or LV.

Barro shall ensure contractors undertaking any aspect of HV operations must comply with the following:

- Complete **Barro** contractor pre-qualification process and be approved
- All contractor's workers complete the **Barro** induction and the relevant site induction
- Provide safe work method statements with evidence of training and competency and licencing (where applicable) for all tasks authorised to undertake
- Where a contractor is engaged to undertake HV works a management plan must be complied with in full.

The Quarry Manager is responsible for ensuring that any contractor undertaking HV operations complies with **Barro** contractor management procedures including signing in, inductions, SWMS, training, licencing and competency.

Barro approved and authorized site HV Operators covered by this BMP are:
Craig Cahill
Terry Hickey

Barro shall ensure HV operations be performed by qualified HV Operators who have successfully completed, but not limited to, the following training units, including refreshers:

- UEPOPS021 Control permit to work operations
- UEPOPS036 Develop H.V. switching programs
- UEPOPS116 Operate local H.V. switchgear
- UEPOPS117 Operate local L.V. switchgear
- UEPOPS124 Perform switching to a switching program
- UETDREL005 Work safely in the vicinity of live electrical apparatus
- UETDRIS017 Perform high voltage field switching operation to a given schedule
- UETDRIS023 Develop and validate high voltage distribution switching programs
- UETDRIS032 Solve problems in network equipment
- UETDRSB001 Perform substation switching

Barro shall ensure all workers associated this BMP and all assets associated with the at-risk electric line assets, irrespective of whether these assets are HV or LV, are suitably qualified prior to commencing site works. All qualifications, training and refreshers will be monitored, tracked and maintained via the Rapid Contractor Management software, and confirmed and updated during or prior to the site induction as required.

For all types of workers, training and frequency of refresher training requirements the following “VESI Skills and Training Matrix” link below shall below be adhered to:

https://vesi.com.au/skills-and-training/

The following table provides the general requirements for various works, but not limited to, associated with this BMP.

Authorisation	Pre - requisites	Requirements
Non Electrical worker working in production area	Nil	**Barro** Site induction and approval
Electrician	Electricians Licence (A)	**Barro** Site induction and approval
Lineworker Distribution	UET30621 Certificate III in ESI - Distribution Overhead, UETDRMP002 ESI safety rules for work on, near or in the vicinity of electrical apparatus or equivalent	**Barro** Site induction and approval
Auditor	Trained and qualified in auditing with knowledge of electricity distribution assets or	**Barro** Site induction and approval

	accompanied by a person with knowledge of electricity distribution assets	
Asset Inspector	UET20621 Certificate II in ESI - Asset Inspection and Testing	**Barro** Site induction and approval
Vegetation workers	UET20321	**Barro** Site induction and approval
Thermography surveyors	ISO 18436-7 or equivalent	**Barro** Site induction and approval
High voltage Planning & switching		
Primary HV Switching operator	Qualified Electrical Worker Accredited HV Training Minimum 2 years Secondary Switching Operator	**Barro** site induction and approval Inhouse company competency assessment by senior HV operator
Secondary HV Switching operator	Qualified Electrical Worker Accredited HV Training	**Barro** site induction and approval In-house company competency assessment and site familiarisation by senior HV operator
HV Switching Recipient	Qualified Electrical Worker Accredited HV Recipient Training	**Barro** site induction and approval In-house company competency assessment and site familiarisation by senior HV operator
HV Switching Coordinator	Qualified Electrical Worker Accredited HV Training Minimum 3 years Primary Switching Operator	**Barro** site induction and approval In-house company competency assessment by senior HV operator / Coordinator

Barro shall ensure routine maintenance is flagged and managed by a time based routine within the Computerised Maintenance Management System.

3.12 Regulation 6 (l) Operation, Maintenance and Plans

(l) the operation and maintenance plans for the specified operator's at-risk electric lines —

(i) in the event of a fire; and

Barro management shall be responsible for assessing if assets associated with the at-risk electric line assets, irrespective of whether these assets are HV or LV, should be turned off in the case of a bushfire. Consideration shall be given to the location and extent of the fire, the risk of power to firefighting equipment including water truck filling processes, dust suppression sprinkler systems, etc. used to control the fire. The process in deciding this shall incorporate completing a risk assessment and communications with the local fire authorities.

Should the decision be made to turn off power to the site and assets associated with the at-risk electric line assets, irrespective of whether these assets are HV or LV, **Barro** shall contact Gordyn & Palmer, as the site HV Operator's, and request power to be turned off.

Gordyn & Palmer, as the site HV Operators are responsible for turning off the power associated with the at-risk electric line assets, irrespective of whether these assets are HV or LV.

The safe procedure for isolation and turning off power is outlined in the "Barro Wyndham Vale HV Operating Procedures Rev-J" as per attached. Refer to the "Opening Sequence" section.

The **Barro** "Emergency Response Plan & Crisis Management Plan" is included in the Attachments of this BMP. The plan outlines the strategies, including nominated personnel in the event of a fire.

EMERGENCY EVACUATION RESPONSE **'RESPONSIBILITIES IN AN EMERGENCY?'**

DETAILS	CHIEF WARDEN	LOCATION MANAGER (or most senior manager on site)	AREA WARDENS
RESPONSIBILITY	Ensures that during emergencies the Emergency Control Personnel have overall authority. Meet with Emergency Control staff (EPC) 6 monthly (unless otherwise required) Ensure delegations are all in place Attend any emergency planning meetings as required Holds list of Emergency Executives Review evacuation effectiveness, improve as necessary	Policy development & review for emergency response Appoint appropriate personnel (& delegates) according to risk & ensure training/retraining as necessary Arrange evacuation practice Recovery Plans with Chief Warden Organisational Incident Reporting file Inform Director of all emergency situations & outcomes Ensure Emergency Control Personnel meet annually	Ensure emergency procedures are available in appropriate areas Ensure emergency preparedness checks are undertaken as part of safety checks Assist in conducting emergency audits (using safety audit checklist) as required Be aware of those persons in their area who may need assistance in time of emergency
In an EMERGENCY **- PUBLIC DISORDER** **- GENERAL**	The prime concern is the safety of people Ensure Police & Fire Brigade have been notified Contact & inform Emergency Executive If toxic emission occurs, ensure evacuation occurs & all persons accounted for Warden to ensure plant is closed down or isolated including windows/doors of buildings Assess situation & confirm all persons moved from danger Arrange site/building isolation & security as necessary	The prime concern is the safety of people When notified obtain details: - then ring Police & give details - notify Chief Warden Proceed to the Main Control Point Assess situation & initiate recovery plans as necessary No press releases! Inform Head Office - Director	The prime concern is the safety of people Stand by for instructions Undertake searches as instructed , account for all persons Be prepared for evacuation Follow instructions of Chief Warden Close down/shut of plant equipment if safe to do so & leave lights on Ensure all persons moved to safety & accounted for Arrange for care of casualties
SMOKE, FIRE or EXPLOSION EMERGENCY	Proceed to main control point and assess situation: Nominate (with Area Warden) the most suitable means of egress & the Assembly area to report Ensure all immediate actions are underway Confirm evacuation complete & all persons account for Hand over to Chief Fire Officer on arrival, keeping Area Warden informed Follow lead of chief Fire Officer & report all clear when advised to do so	Ask the following: - Where is the fire? - Is the fire spreading? - Is there just smoke? - Can you see the fire? - Is anyone hurt? - Has the Warden been told? - THEN CALL 000 & STATE: I am (name) and there is a fire at ..... Say where on the site the fire is situated, what is burning & what action is occurring. Then contact the Chief Warden and follow instructions: – Log all instructions & information passed or received – Maintain evacuation list of persons who have left the site	Conduct search of area as instructed Report persons unaccounted for Ensure closure of areas, doors & windows are closed to contain fire & block off smoke If safe to do so, assist in extinguishing fire & ensure services are closed off/shut down. Leave lights on. Ensure all persons moved to safety & accounted for Assist in fire extinguishing if safe to do so Arrange for care of casualties
CARDIAC ARREST	Organise immediate first aid assistance Ensure Ambulance Officers are met and taken directly to the scene	Ring ambulance & confirm details Notify Chief Warden and Contact Head Office - Director Follow instructions from Chief Warden	Render first aid when instructed to do so
POST EMERGENCY	Pass "all clear" instructions to Area Wardens Conduct debriefing of emergency staff Ensure all reports are collected and forwarded to responsible persons	Attend & contribute to debriefing Input to evaluate incident procedures Initiate recovery plans Prepare reports as required and feedback to Directors	Pass all clear instructions to personnel Conduct debriefing/s and report to Chief Warden Evaluate procedures and complete reports Refurbish equipment

(ii) during a total or partial fire ban day; and

Barro currently utilises a "Hot Work Permit" which defines the types of work that require this permit prior to commencing the work. This shall also form the basis for increased fire hazard periods as a specific "Risk Assessment" is completed with the permit as follows. The Hot Work Permit is included in the Attachments of this BMP.
Protection for the at-risk electric line assets has no auto reclose facility.

Barro operations and maintenance continue during a total or partial fire ban day. All site personnel are informed of a of a total or partial fire ban day by **Barro** site management.

As per the Hot Work Permit below "Hot Work **must NOT** be carried out on **PROCLAIMED FIRE BAN DAY** – contact local fire authority for information".

An exemption for this permit should a critical emergency "Hot Work" be required during a total or partial fire ban day is outlined in the attached "Hot_Work_Procedure_ Nov 2025.pdf" document attached and the following.

On declared Total Fire Ban days (FRV/CFA in Victoria or QFES in Queensland), only emergency or essential hot work may proceed. Written approval (issuing the permit) must be obtained from the Site Manager/SSE and, where applicable approved by the local fire authority in the first instance.

Additional controls on total fire ban days may include:

- Hot work must be essential to maintain or restore critical services/operations.
- A FRV/CFA permit (Victoria) or QFES authorisation (Queensland) may be required and must be obtained prior to work. The Site Manager/SSE must contact them to obtain approval.
- Fire watch with two trained people and extended monitoring post completion of -work (i.e. may be required to up to 4 hours post completion of work)
- Area must be cleared of combustibles within 15 m and, where possible, enclosed or shielded.
- Firefighting equipment must be immediately available. Areas may require wet down (i.e. open field areas if hot work is completed in the open)
- Work must stop if conditions deteriorate or fire danger escalates.
- All approvals and fire authority notifications must be recorded and filed.

BARRO GROUP

Hot Work Permit

A Hot Work Permit is required for **ALL** cutting, welding & other hot work performed and is:

- ❑ **Valid for ONE JOB only**; except that a 'generic' hot work permit may be issued for:
- ❑ **REGULAR*** work carried out in a **DEDICATED WORKSHOP** area (maximum validity: **1 year**)
- ❑ **REGULAR*** maintenance welding on **REGULAR PLANT** outside a dedicated workshop area (maximum validity: **6 months**)

* if the work and/or plant changes in any way, a new hot work permit is required

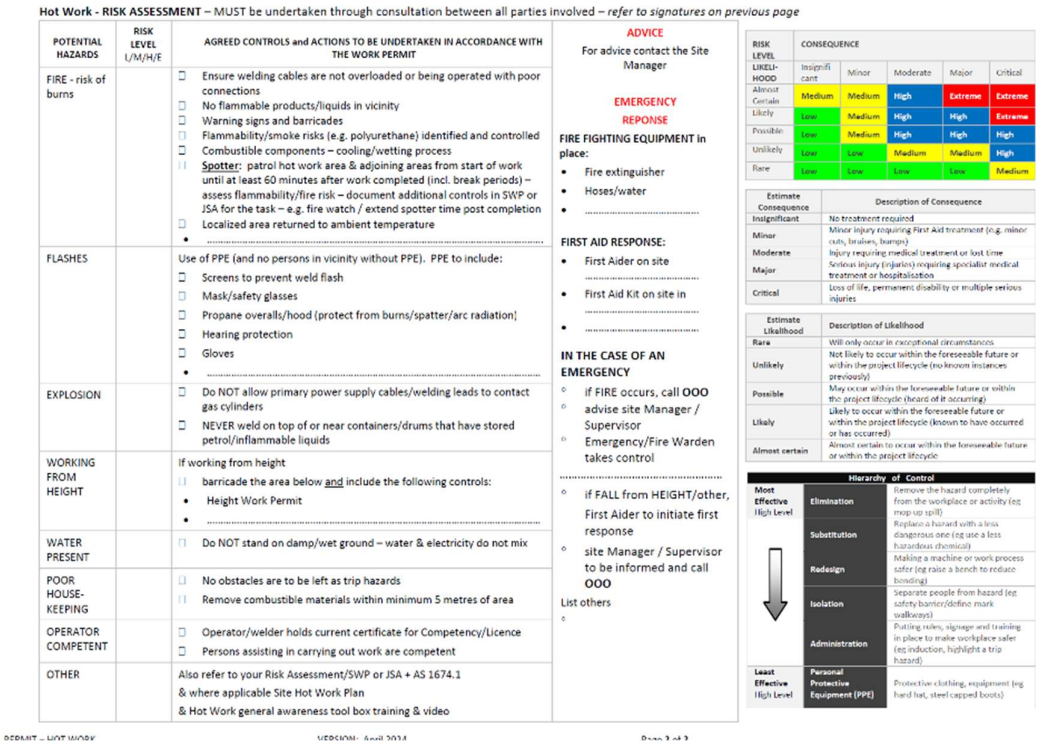
The Hot Work Permit:

- must be displayed at the work site; on completion of work appropriately filed (hard or soft copy for 12 mths)
- Hot Work **must NOT** be carried out on **PROCLAIMED FIRE BAN DAY** – contact local fire authority for information
- this form is for employee use, but may be used by authorised and regularly engaged maintenance contractors
- may be issued by a trained and competent person
- **NO person can issue themselves with a permit**

MANDATORY ➔ **Risk Assessment** & ➔ **Safe Work Procedure** - or if appropriate, prepare a ➔ **JSA**

Division	Location	Date
Contractor (if applicable) Company Name Pty Ltd	Contractor Contact Name	Contractor Contact Tel

Who is doing the Hot Work PRINT NAME*		Barro Employee or Contractor (✓)	❑ Employee ❑ Contractor
Brief Description of Work Activity & Exact Area/Location of work			



Hot Work - RISK ASSESSMENT – MUST be undertaken through consultation between all parties involved – *refer to signatures on previous page*

POTENTIAL HAZARDS	RISK LEVEL L/M/H/E	AGREED CONTROLS and ACTIONS TO BE UNDERTAKEN IN ACCORDANCE WITH THE WORK PERMIT
FIRE - risk of burns		☐ Ensure welding cables are not overloaded or being operated with poor connections ☐ No flammable products/liquids in vicinity ☐ Warning signs and barricades ☐ Flammability/smoke risks (e.g. polyurethane) identified and controlled ☐ Combustible components – cooling/wetting process ☐ Spotter: patrol hot work area & adjoining areas from start of work until at least 60 minutes after work completed (incl. break periods) – assess flammability/fire risk – document additional controls in SWP or JSA for the task – e.g. fire watch / extend spotter time post completion ☐ Localized area returned to ambient temperature • .....
FLASHES		Use of PPE (and no persons in vicinity without PPE). PPE to include: ☐ Screens to prevent weld flash ☐ Mask/safety glasses ☐ Propane overalls/hood (protect from burns/spatter/arc radiation) ☐ Hearing protection ☐ Gloves • .....
EXPLOSION		☐ Do NOT allow primary power supply cables/welding leads to contact gas cylinders ☐ NEVER weld on top of or near containers/drums that have stored petrol/inflammable liquids
WORKING FROM HEIGHT		If working from height ☐ barricade the area below and include the following controls: • Height Work Permit • .....
WATER PRESENT		☐ Do NOT stand on damp/wet ground – water & electricity do not mix
POOR HOUSE-KEEPING		☐ No obstacles are to be left as trip hazards ☐ Remove combustible materials within minimum 5 metres of area
OPERATOR COMPETENT		☐ Operator/welder holds current certificate for Competency/Licence ☐ Persons assisting in carrying out work are competent
OTHER		Also refer to your Risk Assessment/SWP or JSA + AS 1674.1 & where applicable Site Hot Work Plan & Hot Work general awareness tool box training & video

ADVICE
For advice contact the Site Manager

EMERGENCY REPONSE

FIRE FIGHTING EQUIPMENT in place:
- Fire extinguisher
- Hoses/water
- .....

FIRST AID RESPONSE:
- First Aider on site .....
- First Aid Kit on site in .....
- .....

IN THE CASE OF AN EMERGENCY
- if FIRE occurs, call **OOO**
- advise site Manager / Supervisor
- Emergency/Fire Warden takes control

.....
- if FALL from HEIGHT/other, First Aider to initiate first response
- site Manager / Supervisor to be informed and call **OOO**

List others

RISK LEVEL / LIKELIHOOD	CONSEQUENCE				
	Insignificant	Minor	Moderate	Major	Critical
Almost Certain	Medium	Medium	High	Extreme	Extreme
Likely	Low	Medium	High	High	Extreme
Possible	Low	Medium	High	High	High
Unlikely	Low	Low	Medium	Medium	High
Rare	Low	Low	Low	Low	Medium

Estimate Consequence	Description of Consequence
Insignificant	No treatment required
Minor	Minor injury requiring First Aid treatment (e.g. minor cuts, bruises, bumps)
Moderate	Injury requiring medical treatment or lost time
Major	Serious injury (injuries) requiring specialist medical treatment or hospitalisation
Critical	Loss of life, permanent disability or multiple serious injuries

Estimate Likelihood	Description of Likelihood
Rare	Will only occur in exceptional circumstances
Unlikely	Not likely to occur within the foreseeable future or within the project lifecycle (no known instances previously)
Possible	May occur within the foreseeable future or within the project lifecycle (heard of it occurring)
Likely	Likely to occur within the foreseeable future or within the project lifecycle (known to have occurred or has occurred)
Almost certain	Almost certain to occur within the foreseeable future or within the project lifecycle

Hierarchy of Control		
Most Effective High Level	Elimination	Remove the hazard completely from the workplace or activity (eg mop up spill)
	Substitution	Replace a hazard with a less dangerous one (eg use a less hazardous chemical)
	Redesign	Making a machine or work process safer (eg raise a bench to reduce bending)
	Isolation	Separate people from hazard (eg safety barrier/define mark walkways)
	Administration	Putting rules, signage and training in place to make workplace safer (eg induction, highlight a trip hazard)
Least Effective High Level	Personal Protective Equipment (PPE)	Protective clothing, equipment (eg hard hat, steel capped boots)

PERMIT – HOT WORK VERSION: April 2024 Page 2 of 2

(iii) during a fire danger period;

Barro does not do any work that requires CFA's Fire Danger Period Permits during fire danger periods related to this BMP and the assets associated with the at-risk electric line assets, irrespective of whether these assets are HV or LV.

Barro shall ensure that vegetation control for the assets associated with the at-risk electric line assets, irrespective of whether these assets are HV or LV, are completed outside fire danger periods. The surrounding the area has minimal vegetation and **Barro** ensure weed spraying and vegetation control is annually completed.

Barro shall undertake emergency vegetation cutting under the following circumstances

- If branches or debris are blown in the vicinity at-risk electric line assets, irrespective of whether these assets are HV or LV.
- Regular monthly visual inspections shall be completed in the vicinity of the assets
- Spot visual inspections shall be conducted should extreme weather conditions prevail to ensure the areas are clear of potentially hazardous debris.
- As the at-risk electric line assets, irrespective of whether these assets are HV or LV, form part of **Barro**'s risk activities, the monthly visual inspections will be included in the team's audit schedule and will be fully documented and recorded.

3.13 Regulation 6 (m) Processes Ensuring Competent Risk of Fire Mitigation

(m) the investigations, analysis and methodology to be adopted by the specified operator for the mitigation of the risk of fire ignition from its at-risk electric lines;

Barro shall conduct an investigation of all fire starts resulting from or in the vicinity of the with the at-risk electric line assets, irrespective of whether these assets are HV or LV.

Barro confirms there have been no fire starts arising from or in the vicinity of the at-risk electric line assets, irrespective of whether these assets are HV or LV.

Barro has an implemented critical event protocol for all site fires, Refer attached file "Wyndham Vale Quarry Emergency Response Plan 2025".

The following table forms part of the critical event protocol for bushfires which forms part of the investigations, analysis and methodology to be adopted as the area is declared safe by **Barro** management. This will be completed with the other items listed in this BMP.

NOTIFICATION & ESCALATION:

- Chief Warden ECO to immediately notify Site Senior Manager
- Site Senior Manager to assess extent of event and advise Operations Manager
- If anyone is seriously injured/killed immediately activate appropriate Critical Event Protocol
- If property is/may be damaged or personnel mildly injured escalate according to the Barro Group Incident Reporting process
- Record event in Barro Connect

STABILISATION & RECOVERY:

Once immediate event and response have passed, control of event moves from Chief Warden ECO to Site Senior Manager.

Site Senior Manager is to:

- Conduct an assessment of all harm and damage caused to people and property,
- Collect accurate statements, photographs and evidence to support subsequent investigation and insurance claims
- All personnel to be afforded access to counselling if required.
- Assess impact to operations and capacity to sustain services which may include condemning buildings until an engineer or suitable person certified them safe for re-occupation
- If services disrupted totally activate the Group Crisis Management procedure, partial disruption to be managed through the Site Emergency Management Plan

Barro will engage external contractor investigators to investigate any fire start caused by, and surrounding the at-risk electric line assets, irrespective of whether these assets are HV or LV. The investigator must have knowledge of electricity distribution assets and common causes of asset failures and fire starts.

Barro shall ensure a root cause is established based on the 5 Whys methodology. All incidents shall be fully documented and recorded to establish a clear reportable pathway for internal and external parties.

Barro shall utilise a "lessons learnt" mentality in relation to the at-risk electric line assets, irrespective of whether these assets are HV or LV, based on the mitigation of the risk of fire ignition from this site, and other similar industry operations to ensure the risk of fire is minimised.

Barro shall ensure routine maintenance, vegetation control, HV line clearances are maintained is flagged and managed by a time based routine within the Computerised Maintenance Management System.

Barro shall report all HV incidents, including fires, to the relevant Authorities.

In approximately 2021 the submersible pump 100kVA pole type transformer was struck by lightning. No fire started due to the strike, although it is believed some sparking occurred. Testing of the transformer indicated a level of transformer oil contamination. The transformer was replaced as a preventative measure to ensure the integrity of the transformer and the safety of the at-risk electric line assets.

The Quarry Manager will initiate regular internal site-specific audit of HV activities to ensure they comply with the requirements of the BMP and requirements of the Act, Australian Standards, Codes of Practice, and associated publications such as "The Blue Book", etc.

3.14 Regulation 6 (n) Appropriate BMP Implementation and Auditing

6 (n) details of the processes and procedures by which the specified operator will—

(i) monitor the implementation of the bushfire mitigation plan; and

Specific actions identified in this BMP complete with close out dates are uploaded into the site maintenance management system. Where the issue or failure poses a fire or safety risk the item is also recorded as hazard, and an appropriate response shall be planned and rectified.

Barro shall ensure all reporting of the BMP status for the at-risk electric line assets, irrespective of whether these assets are HV or LV, is documented, maintained, is managed by a time based routine within the Computerised Maintenance Management System. This includes the status of the BMP implementation, asset inspections, monitoring programs including historical records of the assets.

(ii) audit the implementation of the plan; and

Implementation of this plan is audited by an external contractor, consideration will be given to new and revised regulations, Australian Standards and work practices.

Barro HV operators will proactively notify **Barro** of enhanced technologies and regulation changes. Consideration shall be given to upgrading and improving the safety of the assets.

Recurring planned maintenance items within the plan will be scheduled ensure routine maintenance shall be flagged and managed by a time based routine within the Computerised Maintenance Management System.

(iii) identify any deficiencies in the plan or the plan's implementation; and

Additionally, **Barro** business processes ensure the update of policies and procedures based on input from any incident investigations, external audits, regulator reviews, etc.

Regular review and documented inspection results shall be managed by a time based routine within the Computerised Maintenance Management System to generate a clear history of the assets. Any significant deviation of results will be investigated and a root cause analysis undertaken.

(iv) change the plan and the plan's implementation to rectify any deficiencies identified under subparagraph (iii); and

The plan implementation audits relating to fire preparedness shall also identify deficiencies in the plans or systems in use on site. Recommendations from the regulators are welcomed and any modifications to this document shall be presented to ESV for approval, prior to being updated on the **Barro** website.

(v) monitor the effectiveness of inspections carried out under the plan; and

Gordyn & Palmer, the nominated site HV Operators have been integral in the writing of the BMP. This has provided an increased awareness for all parties and responsibilities.

Contractors employed to perform inspections are regularly checked and audited.
The plan implemetation audits will confirm the contractor on site meets health and safety requirements. that the contractors' personnel are qualified and licensed for the work they are performing, and documented work procedures are being followed to the required standard.

(vi) audit the effectiveness of inspections carried out under the plan;

Barro engages the external auditor to ensure the effectiveness of the inspections carried out under the plan.

Barro strongly engages with all staff, both internal and contractors, via toolbox meetings, with a strong commitment to open, bidirectional communication with all workers.

Barro "Code of Conduct for Contractors" outlines the standard expected of all contractors, in the performance of their duties and interactions in the workplace.

Barro is committed to ensuring that the highest standards of honesty, integrity, ethics and legality are upheld and enforced.

All **Barro** contractors are responsible for promoting a healthy and safe working environment. To achieve this everyone is required to

- Comply with health and safety legislation
- Treat health and safety as the highest priority and report hazards immediately

3.15 Regulation 6 (o) Fire Authorities Assistance

(o) the policy of the specified operator in relation to the assistance to be provided to fire control authorities in the investigation of fires near the specified operator's at-risk electric lines

Barro is committed to meeting and exceeding all regulations associated with site activities including HV operations.

Barro and its contractors will provide all necessary assistance to fire control authorities with respect to investigation of fires near its assets.

Barro will liaise with local fire authorities prior to and during any fire investigation or danger period if the CFA required access to the power line corridor they would have full access.

The quarry site has one 35,000 litre and one 9,000 litre water truck on site which can be used in response to a fire, as well as heavy earth moving machinery and quarry materials.

All buildings have fire extinguishers located in and around them.

There is typically a significant volume of water contained in dams on site that is readily accessible.

4.0 Referenced Documents

The following documents are referenced throughout this BMP and / or related to the most recent servicing of the **Barro** at-risk electric line assets, irrespective of whether these assets are HV or LV.

Version	Document File Name	Date
Nov 2023	Code of Conduct for CONTRACTORS	Nov 2023
	2025 CRISIS MANAGEMENT & EMERGENCY RESPONSE PLAN	2025
April 2024	Permit - Hot Work	April 2024
Rev J	**Barro** Wyndham Vale HV Operating Procedures Rev-J	19.08.2025.
Rev 2	22176 - FINAL - AS CONSTRUCTED PLAN - V2	10.10.2025.
Rev 1	Wyndham Vale Quarry Emergency Response Plan 2025	29.08.2025.
Version 3	Hot_Work_Procedure_ Nov 2025.pdf	Nov 2025
Version 3	Hazard Identification and Risk Management Guideline - Jan 2026	January 2026