

HV Line Clearance Management Plan

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1. INTRODUCTION

1.1 Background

Opal ANZ Pty Ltd is identified by the Electricity Safety Act 1998 to have electric line clearance responsibilities. Under regulation 9(2) of the Electricity Safety (Electric Line Clearance) Regulations 2020 (the 2020 regulations) this includes preparation of an electric line clearance management plan.

A Line Clearance Management Plan must be prepared before 31st March in each year.

1.2 Purpose

To ensure that high voltage overhead power lines at the Maryvale Mill are managed in compliance with the Electricity Safety (Electric Line Clearance) Regulations 2020.

2. SCOPE

This procedure applies to the high voltage overhead power lines that run from Maryvale Substation to No. 4 Paper Machine and from Maryvale Substation to the Effluent Plant and No. 5 Paper Machine.

3. ACCOUNTABILITIES

Maryvale Mill personnel and Contracting personnel with responsibilities and authorities for activities covered within this Work Procedure are shown in Section 7 of this document.

This Line Clearance Management plan is authorised by the Electrical Automation Manager.

4. OBJECTIVE

The objectives of this Management Plan is:

- maintain electrical safety for onsite personnel;
- provide electrical safety for the workplace;
- prevent the ignition of bushfires;
- protect areas of important vegetation;
- manage vegetation with minimum effect on the environment;
- ensure continuity of power supply to production equipment; and
- comply with the requirements of the Electricity Safety (Electrical Line Clearance) Regulations 2020.



5. LEGAL AND OTHER REQUIREMENTS

The Electricity Safety (Electric Line Clearance) Regulations 2020 details the requirements of managing clearance of vegetation near overhead power lines.

Sub-regulation 9(2) of the Line Clearance Regulations states that:

"A responsible person that is not a major electricity company, before 31 March in each year, must prepare a management plan relating to compliance with the Code for the next financial year".

Sub-regulation 10(2) of the Line Clearance Regulations states that:

"The responsible person must provide a copy of the management plan to Energy Safe Victoria within 14 days after a written request from Energy Safe Victoria or such longer period as specified by Energy Safe Victoria in the written request".

Under sub-regulation 10(2) of the Line Clearance Regulations, Opal ANZ Pty Ltd is only required to submit its plan to Energy Safe Victoria (ESV) if it is requested to do so by ESV.

To ensure up-to-date information is available, this document is kept in a centralised electronic document control system. In order to meet the legislative requirements, a copy of this plan can be made available by request to the main entrance gate-house to the Maryvale Mill (manned 24 hours a day).

Security/First Aid personnel can access the document in the document control system by searching for "HV Line Clearance Management Plan", or by searching for the document number "Original ID 40312". As per the requirements of Sub-regulation 10(6) of the Electricity Safety (Electric Line Clearance) Regulations 2020, the HV Line Clearance Management Plan is published on the Opal ANZ Australian Paper internet site.

This management plan can be accessed via the following link:

https://opalanz.com/sustainability/sustainability-performance/

To provide an audit process, this document will be kept in the Mill document control system, with the document requiring annual review by the responsible person (Electrical & Automation Manager). This review will trigger the responsible person to ensure that compliance with the Line Clearance Regulations is being maintained. The authorisation date for this document is the Version Date given by the document control system, which is shown in the document header.



6. OPERATIONS MANAGEMENT SYSTEM

Opal ANZ Australian Paper's Maryvale Mill has extensive policies and procedures in place to ensure that responsibilities for meeting regulatory requirements are properly defined. These policies and procedures are kept within an electronic document control system to maintain version control, and provide easy access via the mill's internal computer network.

Procedures of particular relevance include:

- MG-RD-0216.003 Operations Management System (Maryvale).
- MG-SEP-2316.001 Regulatory Compliance.
- MG-SEP-0116.002 Organisation and Accountability.
- Organisation Chart.
- Quality Management System ISO9001:2008 Certification
- Major Hazard Facility Licence to Operate

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7. **REGULATION 9: PREPARATION OF A MANAGEMENT PLAN**

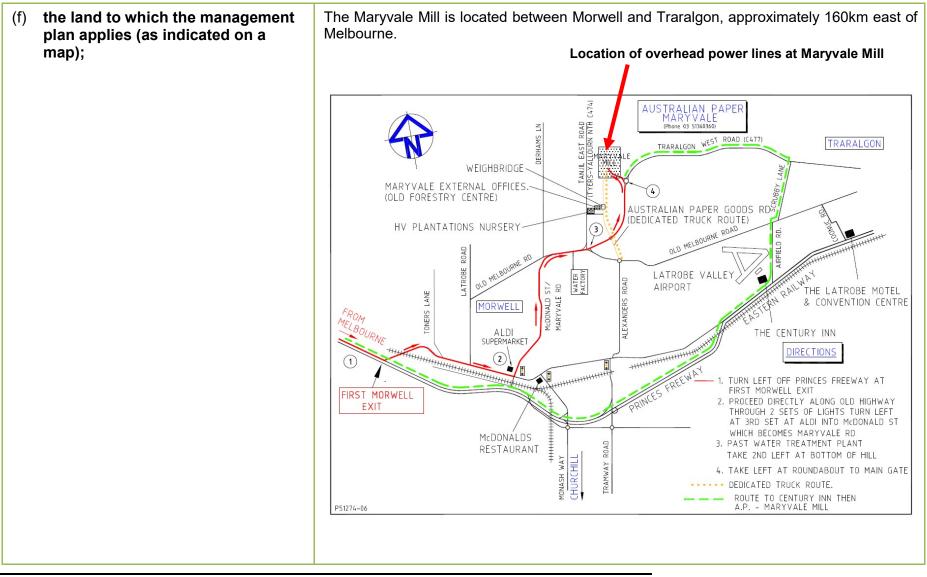
(Electricity Safety (Electric Line Clearance) Regulations 2020)

Reç	ulation 9 Sub-regulation 4	Opal ANZ Australian Paper Maryvale Mill Electrical Line Clearance Management Plan
	esponsible person must ensure that a owing—	management plan prepared under sub-regulation (2) or (3) specifies the
(a)	the name, address and telephone number of the responsible person;	Responsible Person: Dewald Pelser - Electrical & Automation Manager Opal ANZ Australian Paper Maryvale Mill Traralgon West Road (PO Box 37) MORWELL VIC 3840 Telephone: 03 5136 0392 0418 165 950
(b)	the name, position, address and telephone number of the individual who was responsible for the preparation of the management plan;	Prepares the Management Plan:Bahram Ghafari – Senior Automation EngineerOpal ANZ Australian Paper Maryvale MillTraralgon West Road (PO Box 37)MORWELL VIC 3840Telephone: 03 5136 05430478 489 959Reviews and approves the Management Plan:Dewald Pelser - Electrical & Automation ManagerOpal ANZ Australian Paper Maryvale MillTraralgon West Road (PO Box 37)
		MORWELL VIC 3840 Telephone: 03 5136 0392 0418 165 950

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(c)	the name, position, address and telephone number of the persons who are responsible for carrying out the management plan;	Responsible for carrying out the management plan: Shaun Maxfield – Central E/I Workshop Superintendent Opal ANZ Australian Paper Maryvale Mill Traralgon West Road (PO Box 37) MORWELL VIC 3840 Telephone: 03 5136 0835
(d)	the telephone number of a person who can be contacted in an emergency that requires clearance of a tree from an electric line that the responsible person is required to keep clear of trees;	Emergency Contact:The Maryvale Mill site is manned 24 hours a day, every day of the year. Emergency contact numbers are listed below in order of priority:Shift Manager:03 51360459 Security/Gate:03 51360360 Power Plant Senior Operator:03 51360467
(e)	the objectives of the management plan;	The objectives of this Management Plan are to: - maintain electrical safety for the public; - provide electrical safety for the workplace; - prevent the ignition of bushfires; - protect areas of important vegetation; - manage vegetation with minimum effect on the environment; - ensure continuity of power supply to production equipment; and - comply with the requirements of the Electricity Safety (Electrical Line Clearance) Regulations 2020.

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(g) any hazardous bushfire risk areas The Maryvale Mill is in an area that has not been classified by the Country Fire Authority and low bushfire risk areas in the (CFA) as having a low fire hazard rating. As such, it has been defined as a Hazardous land referred to in paragraph (f) (as Bushfire Risk Area, as shown on this map from the 2011 edition of 'fire hazard ratings for indicated on the map); the Electricity Safety Act 1998'. (Low fire risk rating areas are shaded green) Maryvale Mill Morwell Traralgon During the annual review of this document the CFA web site will be consulted to determine if the Bushfire Risk of the Maryvale Mil site has changed.

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(h) each area that the responsible person knows contains a tree that the responsible person may need to cut or remove to ensure compliance with the Code and that is—

(i) indigenous to Victoria; or

(ii) listed in a planning scheme to be of ecological, historical or aesthetic significance; or

(iii) a tree of cultural or environmental significance;

There are no trees that can encroach within the clearances specified in the Line Clearance Regulations that are:

(i) indigenous to Victoria; or

(ii) listed in a planning scheme to be of ecological, historical or aesthetic significance; or (iii) are of cultural or environmental significance.



Pole 1: looking North

Pole 8: looking East

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 the responsible person is required to adopt to ensure compliance with the Code, which must— (i) include details of the methods to be adopted for managing trees and maintaining a minimum clearance space as required by the Code; and (ii) specify the method for determining an additional distance that allows for cable sag and sway for the purposes of determining a minimum clearance space in accordance with Division 1 of Part 3 of the Code; (A) must specify the method for determining an additional distance 	 (i) the means which the responsible person is required to use to identify a tree of a kind specified in paragraph (h)(i), (ii) or (iii); 	Identification of a tree of a kind specified in paragraph (h)(i), (ii), or (iii) is not required as there are no trees near the 22kV overhead power lines that run through cleared private property on the Maryvale Mill site.
sway; and (B) may provide for different additional distances to be determined for different parts of an (B) may provide for different additional distances to be determined for different parts of an (B) may provide for different (B) may prov	 the responsible person is required to adopt to ensure compliance with the Code, which must— (i) include details of the methods to be adopted for managing trees and maintaining a minimum clearance space as required by the Code; and (ii) specify the method for determining an additional distance that allows for cable sag and sway for the purposes of determining a minimum clearance space in accordance with Division 1 of Part 3 of the Code; (A) must specify the method for determining an additional distance that allows for conductor sag and sway; and (B) may provide for different additional distances to be determined for different parts of an 	 M04896: Overhead lines, annual inspection; M04897: Overhead switches, annual inspection; M04898: Overhead switches, 6-yearly maintenance; and Programmed Maintenance 1225: Inspection of Overhead Lines & Poles by an ESV approved Asset Inspector every 36 months. An annual inspection of the overhead lines shall be undertaken to ensure compliance prior to, and for the duration of, the declared fire danger period, and will include: visual checking of line condition from the ground; thermal imaging of the line at poles to detect hot spots; visual checking to verify that regular mowing is being undertaken, so that vegetation cannot encroach on the clearances given in Schedule 2 of the Line Clearance Regulations; and visual checking that no "hazard trees" exist that are likely to fall onto or otherwise come in contact with the overhead power line. The 22kV overhead lines covered under this Management Plan are supported by 16 concrete poles. The 22kV overhead power lines run through cleared private property. The Maryvale Mill site has been used for industrial production since the 1930's. There are no trees that can encroach within the clearances specified in the Line Clearance Regulations. Any small bushes or trees that regrow from the ground are detected during routine inspections and removed before they can encroach within the clearances specified in the table provided

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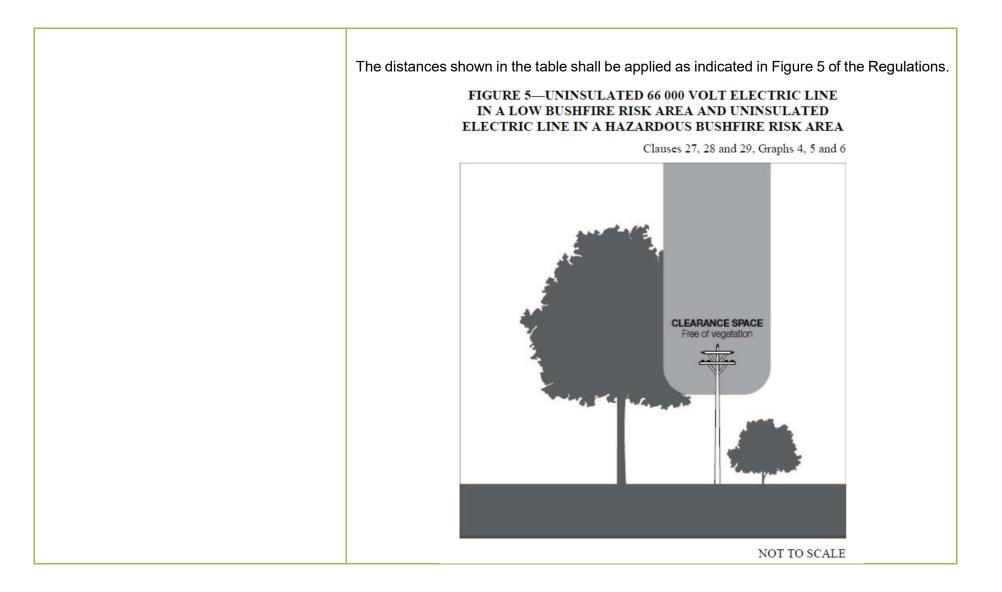
Clause 21(2) of the Code requires a distribution company or an owner or operator of a railway or tramway supply network that is consulted by a Council to assist the Council by determining an additional distance.

permitted clearance distances for each of the spans of 22kV line on the Maryvale Mill site are shown calculated in the table below.

Start		Finish	Span (metre)	Applicable Distance (mm) as per 1500+((Span- 45)*(500/303)) Minimum 1500mm
Pole 1	to	Pole 2	19.0	1500
Pole 2	to	Pole 3	101.6	1593
Pole 3	to	Pole 4	105.5	1600
Pole 4	to	Pole 5	39.9	1500
Pole 5	to	Pole 6	104.3	1598
Pole 6	to	Pole 7	123.5	1630
Pole 7	to	Pole 8	99.0	1589
Pole 8	to	Pole 9	103.8	1597
Pole 9	to	Pole 10	103.8	1597
Pole 10	to	Pole 11	103.8	1597
Pole 11	to	Pole 12	107.7	1603
Pole 12	to	Pole 13	115.3	1616
Pole 13	to	Pole 14	48.1	1505
Pole 14	to	Pole 15	66.1	1535
Pole 13	to	Pole 13E	120.6	1625

It is noted that the regulations allow a clearance of 1500mm for the first and last sixths of a span. However as any tree clearing is unlikely, Maryvale Mill will comply with the larger distances given in the table for the entire span.

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 (k) the procedures to be adopted if it is not practicable to comply with the requirements of AS 4373 while cutting a tree in accordance with the Code; Note Clause 10 of the Code requires a responsible person to cut trees, as far as practicable, in accordance with AS 4373. 	As there are no trees near the 22kV overhead power lines that run through cleared private property on the Maryvale Mill site, it is not anticipated that any cutting will be required. If in the future any tree cutting is required it will be done in accordance with AS4373 Pruning of Amenity Trees.
 (I) a description of each alternative compliance mechanism in respect of which the responsible person has applied, or proposes to apply, for approval under clause 31 of the Code; 	No alternative compliance mechanism is applied or proposed.
(m)the details of each approval for an alternative compliance mechanism that—	No alternative compliance mechanism is held or in effect.
(i) the responsible person holds; and	
(ii) is in effect;	

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(n) a description of the measures that must be used to assess the	It is not anticipated that any tree clearing will be required to maintain line clearances, thus no targets are set regarding tree clearing operations.
performance of the responsible person under the management plan;	This document will be stored in a document control system, which will include a requirement for annual review. This review will trigger an audit to ensure that the annual 'PM' task for line inspection has been carried out.
	Performance of the Maintenance Manager is monitored annually via a performance review with the Mill Manager. This review includes measures relating to safety and reliability of equipment.
 (o) details of the audit processes that must be used to determine the responsible person's compliance with the Code; 	Section 8 of this document includes and annual review of this plan and audit of compliance. This will be updated each year with a statement of compliance and any other relevant information.
(p) the qualifications and experience that the responsible person must require of the persons who are to	As trees are not allowed to grow near the overhead power line, it is not anticipated that any cutting or removal of trees will be required within the specified 'No Go Zone' or 'Clearance Space'.
carry out the inspection, cutting or removal of trees in accordance with the Code and the Electricity Safety (General) Regulations 2019 ² ;	If close approach to the lines is required for any reason, the lines will be isolated and earthed, and permits issued, as detailed by organisational High Voltage operating procedures, which follow the principles outlined in the Code of Practice of Electrical Safety for Work on or Near High Voltage Electrical Apparatus (the 'Blue Book').
Note Regulation 616(2) of the Electricity Safety (General) Regulations 2019 sets out specific	If, in the future, any 'hazard trees' or 'significant trees' are identified, Opal ANZ Australian Paper will engage a suitably qualified arborist to assess the tree and recommend appropriate action (National Certificate 3 in Horticulture and Arboriculture including a ground based tree assessment training module, and at least 3 years field experience in assessing trees).
requirements for qualified persons carrying out vegetation management work.	If, in the future, vegetation clearance is required within the Clearance Space, Opal ANZ Australian Paper will engage a competent and experienced tree removal contractor employing people with appropriate and current training in Certificate II in ESI Power line Vegetation Control (UET20312 or UET20319).
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	Access to the Maryvale Mill site is tightly controlled to comply with Major hazard Facility requirements. Any person coming on site to perform tree removal will be required to complete a site induction and be in possession of an access pass issued by Maryvale Mill. Currency of training and qualifications of personnel engaged in vegetation maintenance work near the overhead power line will be checked will be checked before issuing a site pass.
 (q) notification and consultation procedures, including the form of the notice to be given in accordance with Division 3 of Part 2 of the Code; 	The overhead power line runs entirely over cleared private property, owned by Opal Australian Paper. It is not anticipated that any tree-clearing will be required. If, in the future, vegetation clearance is required, there are no identified affected parties.
 (r) a procedure for the independent resolution of disputes relating to electric line clearance; 	The 22kV overhead power lines run entirely through cleared private property owned by Opal Australian Paper. Due to current management practices there are no foreseeable disputes that could arise from clearing of vegetation near the power lines. Thus this plan does not include any dispute resolution process.
	For more general consultation on community issues the Maryvale Mill hosts a Community Consultative Committee, which includes members from management, local government, the Environment Protection Agency, and community members.
(s) if Energy Safe Victoria has granted an exemption under regulation 11 relating to a requirement of the Code, details of the exemption or a copy of the exemption.	No exemption has been granted.



8. ANNUAL MANAGEMENT PLAN REVIEW AND AUDIT OF COMPLIANCE

During the document update, section 8 was updated to capture the completion of the 2022 annual review of the management plan, as well as the results of the 2022 annual audit of the planned PM tasks.

PM Number	PM Title	WO Number
		Date Completed
M04896	Overhead lines, annual inspection	The last inspection was on 22/10/2021 through WO 55021845.
		Planning to re-inspect before end of October 2022.
M04897	Overhead switches, annual	The last inspection was on 21/7/2021 through WO 53068884.
	inspection	Planning to re-inspect before end of July 2022.
M04898	Overhead switches, 6-yearly	The last inspection was on 23/11/2016 through WO 2208160.
	maintenance	Planning to re-inspect before end of 2022.
Programmed Maintenance	Inspection of Overhead Lines &	The last inspection was on 13/10/2020 through WO 55020151.
1225	Poles by an ESV approved Asset Inspector every 36 months.	Planning to re-inspect before end of September 2023.

Based on the completion of these preventative maintenance tasks and a visual inspection of the overhead lines that I have undertaken, I am satisfied that we are complying with the requirements of this Management Plan.

Bahram Ghafari, Automation Engineer