



ENGIE HAZELWOOD

ELECTRICITY SAFETY – ELECTRIC LINE CLEARANCE PLAN

For a Twelve-month period commencing 1st April 2019

Title:	ENGIE Hazelwood Mine Electric Line Clearance Management Plan
Author:	Nigel Wynn
Synopsis:	
This document defines the processes and procedures used to manage vegetation growing near overhead power lines under the control of ENGIE Hazelwood.	
HP Content Manager Record No: TBA	

REVISION/CHECKING HISTORY

REV No.	AUTHOR	DATE	CHECKED BY		APPROVED BY	
0	P Brimblecombe	Mar 2013	S Dargan	Mar 2013	S Kemsley	Mar 2013
1	P Brimblecombe	May 2014	S Dargan	May 2014	S Kemsley	May 2014
2	P Brimblecombe	Sep 2014	S Dargan	Sep 2014	S Kemsley	Sep 2014
3	P Brimblecombe	Jun 2015	S Dargan	Jun 2015	S Kemsley	Jun 2015
4	P Brimblecombe	Mar 2016	S Dargan	Mar 2016	P Brimblecombe	Mar 2016
5	P Brimblecombe	Mar 2017	S Dargan	Mar 2016	S Dargan	Mar 2016
1.3.1	N Wynn	Sept 2018	R Brooker	Sept 2018	N Wynn	Sept 2018
1.4.1	N Wynn	Sept 2019	M Anderson	Oct 2019	N Wynn	Oct 2019

REVISIONS

REVISION NUMBER	DATE	DESCRIPTION OF CHANGE
0	Jan 2013	Development of document from draft for approval
1	May 2014	Annual Review and Update
2	Sep 2014	Changes made based on comments and questions from ESV

3	Jun 2015	Revised to reflect changes from the Hazelwood Mine Fire Inquiry
4	Mar 2016	Annual Review and Update
5	Mar 2017	Annual Review and Update
1.3.1	Sept 2018	Cessation of Mine Bucket Wheel Operation and Decommissioning Update
1.4.1	Oct 2019	Annual Review and Update

1. Purpose

Comply with the requirements of relevant Victorian legislation.

Relevant Legislation and Regulations

Electricity Safety Act 1998

Electricity Safety (Electric Line Clearance) Regulations 2015

As a business that owns and operates electric lines, ENGIE Hazelwood is responsible to ensure that vegetation is kept clear of its power lines.

2. Scope

ENGIE Hazelwood operates an overhead line and cable power distribution system across its site operating at 6.6kV. All the ENGIE overhead electric lines are contained within the business boundaries, except for two spans that cross a public road between two areas of the business. These two spans have been deemed not significant in previous discussion with ESV.

This plan details the practices and procedures in place at ENGIE Hazelwood for the management of vegetation near the overhead power lines.

3. Responsibilities & Authorities

3.1. Mine Lead:

- a) Ensure that the processes and procedures required to comply with the regulations are in place and followed;
- b) Ensure that the procedure is reviewed and updated at regular intervals in line with legislation, regulations and industry "Best Practices"
- c) Have an audit process in place to ensure that the regulatory requirements are being met.

3.2 Mine Electrical Asset Engineer:

- a) To review and update the plan annually to comply with the regulations and ensure that any changes to relevant operational procedures are compliant with the regulations and reflected in this plan. Ensure that all staff and contractors personnel understand their responsibilities in meeting this plan;

3.3 Head of Compliance:

- a) Ensure that the regulatory requirements are complied with by the business.

4. Prescribed Particulars

a) The name address and telephone number of the specified operator:

- Name: ENGIE Hazelwood
- Address: Brodribb Road, Morwell
- Phone No: (03) 5135 5000

b) Person responsible for the preparation of the plan;

Mine Electrical Asset Engineer

Ph (03) 5135 5003

PO Box 195, Morwell, 3840

c) Person responsible for carrying out the plan;

Electrical Operating Authority

Ph (03) 5135 5003

PO Box 195, Morwell, 3840

d) Emergency duty officer contacts;

Mine Electrical Asset Engineer or Mine Electricians

Emergency contact numbers are made available through the;

“Availability Duty Officer Weekly Roster”

The duty officer is available during normal working hours and is rostered for out of hours cover.

e) The objectives of the plan;

Is to adopt sensible precautions and suitable practices for the management of vegetation in the ENGIE Hazelwood mine to:

- Protect personnel within the business from the risk of electric shock from the power lines; and
- Minimise the likelihood of the power lines starting a fire;

while ensuring our responsibilities for maintaining native fauna and flora are met.

An Environmental Management System is in place for the whole site that meets the legislative requirements for management of flora and fauna including auditing. Audits of flora and fauna have been conducted.

In relation to fauna, currently some species have been identified as “endangered”, however no listings have been made as “vulnerable” and/or “critically endangered” during site surveys. Details of the locations of these “Endangered” species for the site can be found in the drawings listed in Appendix 3. While all trees are habitat trees to some extent, due care is taken to minimise the risk to fauna when trees are removed due to proximity to power lines.

f) Plan of the mine showing overhead power lines;

Drawing of mine showing all overhead power lines – Appendix 1

Site Locality Map – Appendix 2

Note: ENGIE Hazelwood power lines are shown in black. The other coloured lines on the map indicate power lines and transmission lines, on our site, owned by AusNet Services.

- g) Trees of significance;
- There are no trees of significance in the area of the power lines. The entire site is covered by an Environmental Management System.
- Vegetation is removed from the vicinity of power lines whenever it is identified as an issue. Where the vegetation is native the Project Environmental Officer is contacted prior to its removal to confirm the species and importance of the tree.
- h) Site Vegetation Identification
- All significant vegetation on site has been identified in the relative drawings listed within Appendix 3.
- i) Plan for inspection and clearance;
- All overhead high voltage power lines and poles are inspected on a 3-year cycle, as required by the Electricity Safety (Bushfire Mitigation) Regulations. A term contract is let for the inspection of the whole and/or a nominated portion of the mine distribution system. The contract is awarded to a competent, qualified contractor.
- A scheduled annual vegetation clearance inspection is conducted by the Mine Electrical Asset Engineer or at the discretion of the Mine Electrical Asset Engineer; this activity can be undertaken by the nominated competent contractor. In addition to these scheduled activities the Mine Electrical Asset Engineer will conduct additional random checks to ensure nothing unexpected has happened.
- Where vegetation is identified as causing a risk, subject to the issues listed above, the vegetation (tree) will be completely removed subject to the prior approval of the Project Environmental Officer.
- j) Not Applicable
- k) Not Applicable
- l) Not Applicable
- m) Not Applicable

n) Audits and reviews;

ENGIE Hazelwood maintains its Management Systems consistent with the requirements of AS/NZ ISO 9001:2008, AS/NZS ISO 14001:2004, AS/NZS 4801:2001 and OHSAS 18001:2007 standards, which includes internal auditing and review processes.

Site inspections by the Responsible Officer and/or Contract Manager will also verify levels of KPI compliance achieved by the nominated competent contractor.

o) Accreditation of Lines Inspectors and Vegetation Clearers;

The Engie Hazelwood mine HV overhead lines and poles are inspected every three years by a qualified and certified inspector. The nominated service provider/contractor is required to provide an inspector/person with a Certificate II accreditation in Asset Inspection (or equivalent as approved by ESV).

A work order/purchase order is issued by ENGIE Hazelwood to the nominated service provider/contractor to undertake an inspection of the mine infrastructure and provide a report of their findings to the Mine Electrical Asset Engineer on completion for review.

Inspector qualifications are checked by the Mine Electrical Asset Engineer when the Inspector presents themselves for access to the equipment. The Mine Electrical Operating Authority controls access to the lines, monitors progress and checks on site activities. In addition, the ENGIE Hazelwood Responsible Officer for the contract will conduct site audits for compliance with site requirements including licensing and accreditation of site personnel and compliance with OH&S regulations.

The Engie Hazelwood mine HV overhead lines and poles require annual vegetation clearance inspection. At the discretion of the Mine Electrical Asset Engineer these activities may be undertaken either by a certified/approved Mine Electrician and/or the ENGIE Mine Asset Engineer or by a nominated and certified contractor as above.

When the actual vegetation for removal has been identified, the vegetation will be removed by an authorised ENGIE employee and/or an approved service provider/contractor. In some cases, the contractor may be working for the same company as the HV overhead line inspector on other occasions this service may be provided by another approved and certified service provider/contractor.

The service provider/contractor removing the vegetation will be instructed to remove the vegetation (tree) where ever practical. If a tree has to be pruned, it is to be cut to give a minimum 5-year clearance from the line.

The trees would be removed under the Bushfire Mitigation regulations. No arborist would be consulted for a removal unless there was a safety risk associated with removing the tree, all removals must be authorised by the Project Environment Officer.

p) Not Applicable

The current version of this plan is in our business document management



ENGIE Hazelwood Electricity Safety - Electric Line Clearance

system. This system is accessible at our principal office in Melbourne. A copy of the plan could be made available for a member of the public upon request.

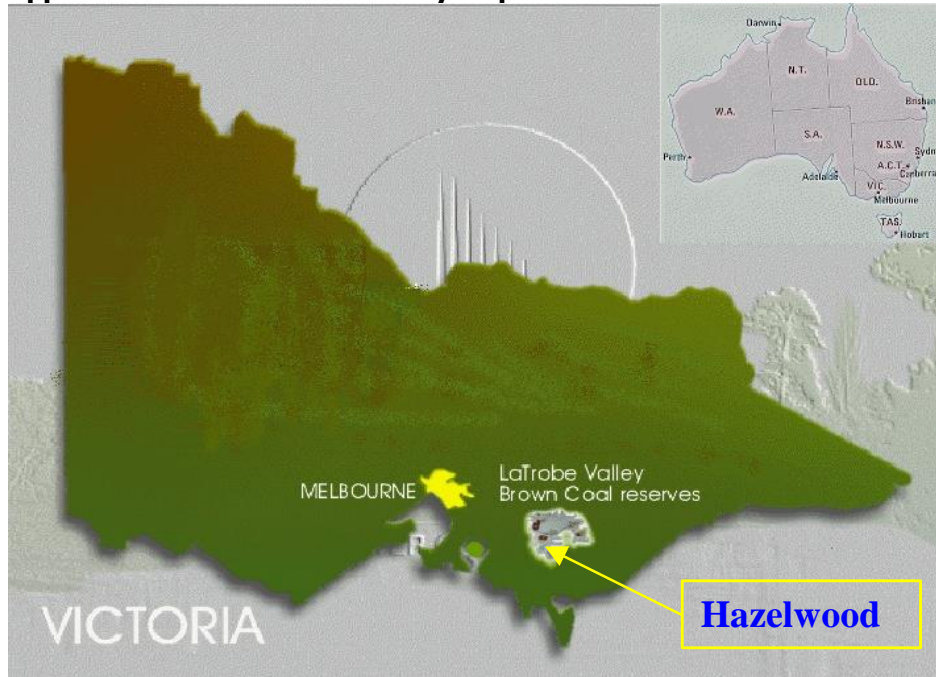
A copy of the approved plan will be placed on the ENGIE Hazelwood public internet site.

Appendix 1 – Drawing of the Mine

Note: the "at risk" business power lines are shown in black. The other coloured lines on the map indicate overhead lines, on our site, owned by AusNet Services.



Appendix 2 – Hazelwood Locality Map



Appendix 3

Drawings for Elect Doc:

- LV66/19-1/023 – ENGIE Hazelwood Land Use Areas.
- LV66/20-1/006 – Mine Native Flora Plan.
- LV66/25-14/031 – Environmental Protection Biodiversity Conservation Act.