

ENGIE HAZELWOOD

ELECTRICITY SAFETY – ELECTRIC LINE CLEARANCE PLAN

For period commencing 1 July 2017

Title:	ENGIE Hazelwood Mine Electric Line Clearance Management Plan
Author:	Peter Brimblecombe
Synopsis:	This document defines the processes and procedures used to manage vegetation growing near overhead power lines under the control of ENGIE Hazelwood.
TRIM Reference No:	

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
4	P Brimblecombe	Mar 2017	S Dargan	Mar 2016	S Dargan	Mar 2016

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. Purpose

Comply with the requirements of relevant Victorian legislation.

Relevant Legislation and Regulations

Electricity Safety Act 1998 (Version No 025)

Electricity Safety (Electric Line Clearance) Regulations 2015 No. 67

As a business that owns and operates electric lines in a hazardous bushfire area, 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. Director of Mining:

- 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 EC&I Senior Engineer, Mine:

- 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 Compliance Manager, Mine:

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

3.3 Head of Compliance, Station:

- a) Ensure that station electrical equipment meets the requirements of Regulations (Note: power station overhead conductors only consist of spans from the power station wall to generator transformer on each unit).

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;

Peter Brimblecombe,
A/Technical Compliance Manager
Ph (03) 5135 5945
PO Box 195, Morwell, 3840

c) Person responsible for carrying out the plan;

Stephen Dargan,
EC&I Senior Engineer, Mine
Ph (03) 5135 5876
PO Box 195, Morwell, 3840

d) Emergency contacts are the Mine High Voltage Availability Officer;

Stephen Dargan,
EC&I Senior Engineer
Ph (03) 5135 5876 mob 0408 588 372
PO Box 195, Morwell, 3840

OR

Mine Shift Electrician
035135 5885 or 0408 141 543

The officer is available during normal working hours and is rostered for out of hours duty. If the officer cannot be reached the Shift Electrician is on site 24 x 7.

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.

To meet legislative requirements for management of flora and fauna, audits of flora and fauna have been conducted and we are working to maintain some vulnerable and rare plant species. An accredited Environmental Management System is in place for the whole site.

In relation to fauna, currently no fauna listed as "vulnerable", "endangered" or "critically endangered" have been identified during any of the surveys conducted on site. 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;

The whole site is in an area assigned a fire hazard rating of "high" by the CFA.

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 MECs

- 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 Mine 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 as part of the Environmental Management Plan. Appendix 3 shows an example of a 'Flora Species Identification Map'. The map is from our internal drawing system. The map was commissioned by the mines Environmental Officer in Sep 1999. This specific drawing has not been updated since.

Where the native vegetation is required to be removed the site Environmental Officer is contacted prior to its removal as some EPBC listed species have been identified on site.

- i) Plan for inspection and clearance;

All overhead high voltage power lines are inspected on a 3 year cycle, as required by the Electricity Safety (Bushfire Mitigation) Regulations. A contract is usually let annually for the inspection of a nominated portion of the mine distribution system. The contract is awarded to a competent, qualified contractor.

A scheduled annual inspection is conducted by mine operational personnel, in addition to 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) is completely removed, with the approval of the Mine Environmental Officer.

- j) Not Applicable

- k) Not Applicable

- l) Not Applicable

- m) Not Applicable

n) Audits and reviews;

As a company with third party certification of their Management Systems to AS/NZ ISO 9001:2008, AS/NZS ISO 14001:2004, AS/NZS 4801:2001 and OHSAS 18001:2007, ENGIE Hazelwood maintains a high level of internal audit and review for all processes. To maintain certification of our Environmental Management Plan an independent auditor conducts 6 monthly surveillance audits and a full recertification every 2 years.

Site inspections by the contract officer will also verify levels of compliance by the contractor.

o) Accreditation of Lines Inspectors and Vegetation Clearers;

When the line inspections are due each year, an order is placed on an Overhead Lines service provider, for the inspection of the plant and equipment due that year.

The order requires the inspections be completed by persons with Certificate II accreditation in Asset Inspection (or equivalent as approved by ESV).

Inspector qualifications are checked by the mine electrical group when the Inspector presents 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.

Where vegetation clearance is required from the inspection, the same process is followed for the contract to remove the vegetation. In some cases the same company will do the inspection and removal.

The contractors removing vegetation are instructed to remove the 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 unless there was a safety risk associated with removing the tree.

p) Not Applicable

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

The whole site is in an area assigned a fire hazard rating of "high" by the CFA.
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 MECs



Appendix 2 – Hazelwood Locality Map



