

From: [Cornellis Duba](#)
To: [DPE CSE Information Planning Mailbox](#)
Cc: [Melissa Anderson](#); [Jessie Evans](#); [Kevin Nuner](#); [Samuel Morris](#)
Subject: Department of Planning, Industry and Environment Notification of Exhibition of Exhibition of Dendrobium Mine Extension Project (SSD 8194)
Date: Wednesday, 18 September 2019 2:54:00 PM
Attachments: [Image016.png](#)
[SW08773 Work near underground assets.pdf](#)
[EE Drawing 86232 OH lines minimum clearances.pdf](#)
[FF Fact Sheet Building Construction.pdf](#)
[FF Safety on the job.pdf](#)
[SW Work near overhead power lines.pdf](#)

The Secretary
NSW Department of Planning, Industry and Environment

ATTENTION: Jessie Evans, Energy & Resource Assessments

Dear Sir or Madam

I refer to the Department's below email of 18 July 2019 regarding the public exhibition of the Preliminary Environmental Assessment for State Significant Development SSD 8194 for the Dendrobium Mine Extension Project. Submissions need to be made to the Department by 18 September 2019.

The Dendrobium Mine covers a large area and includes significant electricity distribution infrastructure which predominantly consists of high voltage overhead power lines and distribution substations which transform the electricity to 415 or 240 volts providing the low voltage supply to customers. Due to the large area the Mine covers the scale needed to be used for the site plan from Endeavour Energy's G/Net master facility model does not allow it to show the details of the network. If the Department requires a plan of the electricity infrastructure in a particular locality within the Mine, these can be provided upon request.

Subject to the following recommendations and comments Endeavour Energy has no objection to the Development Application.

- Network Capacity / Connection

Endeavour Energy has noted the following in the Preliminary Environmental Assessment:

Table 1
Summary Comparison of the Approved Mine and Project

Component	Approved Mine (DA 60-03-2001)	Project (New Development Consent)
General Infrastructure	<ul style="list-style-type: none">• Dendrobium Pit Top.• Kemira Valley Coal Loading Facility.• Kemira Valley Rail Line.• Dendrobium CPP.• Dendrobium Shafts Nos 1, 2 and 3.	<p>Use of existing infrastructure with minor upgrades and extensions.</p> <p>Augmentation of mine access arrangements, which may include upgrades to, and the use of, the Cordeaux Pit Top (currently under care and maintenance).</p> <p>Development of surface infrastructure associated with mine ventilation and gas management and abatement and other ancillary infrastructure.</p>

Endeavour Energy's Network Connections Branch has provided the following advice:

Network Connections Branch has received two applications for a proposed vent shaft supply associated with the Dendrobium Mine extension, one for permanent load and another initial construction load.

Network Connections Branch are working with the customer regarding supply requirements which are both contestable works projects for electricity distribution network connection services. These projects will be completed under the provisions of the [Electricity Supply Act 1995](#) (NSW) which establishes a framework for electricity customers to contract directly with third party accredited service providers (ASP) to do the work that is necessary to connect them to an electricity distribution network.

These contestable work projects are currently in the preliminary stages and the final detailed requirements will be determined in due course. Network Connections Branch will be responsible for managing the conditions of supply with the customer / proponent and their ASP.

Some information related to these contestable work projects is confidential and cannot be made public. However if the Department has any questions or concerns regarding the electricity supply, Endeavour Energy's contact for dealing with the electrical infrastructure for the development is :

Kevin Nuner
Major Projects and Customers Manager
D: 9853 7927
E: Kevin.Nuner@endeavourenergy.com.au

Endeavour Energy's Network Environment Assessment Manager has provided the following additional advice:

Endeavour Energy is the Determining Authority under the [Environmental Planning and Assessment Act 1979](#) (NSW) for any of the proposed electrical infrastructure which will be owned, operated and maintained by Endeavour Energy upon commissioning. An environmental assessment must accompany the proposed electrical design submitted for certification to Endeavour Energy's Network Connections Branch.

This environmental assessment must adequately address the sensitive nature of the area and consider the likely impact of installing the proposed electrical infrastructure in the locality on matters such as heritage, bushfire, ecology etc. and must provide evidence of consultation with the landowner, WaterNSW.

- Subsidence Management

Endeavour Energy has noted the following in the Preliminary Environmental Assessment.

3.6 MANAGEMENT COMMITMENTS

Preliminary strategies to address potential impacts associated with the Project are outlined in Section 4, which would be developed and refined through the environmental assessment process.

It is proposed to continue the management approach at the existing Mine for the Project.

It is anticipated that any new Development Consent, would include a contemporary Extraction Plan process for Areas 5 and 6 to mitigate, remediate, monitor, manage and offset potential impacts associated with subsidence.

Endeavour Energy's contact for dealing with the potential mine subsidence impacts on its electrical infrastructure is:

Samuel Morris

Senior Engineer – Overhead Mains Assets

D: 9853 6164

E: Samuel.Morris@endeavourenergy.com.au

- **Earthing**

The construction of any building or structure (including fencing, signage, flag poles, hoardings etc.) whether temporary or permanent that is connected to or in close proximity to Endeavour Energy's electrical network is required to comply with Australian/New Zealand Standard AS/NZS 3000:2018 'Electrical installations' as updated from time to time. This Standard sets out requirements for the design, construction and verification of electrical installations, including ensuring there is adequate connection to the earth. Inadequate connection to the earth to allow a leaking/fault current to flow into the grounding system and be properly dissipated places persons, equipment connected to the network and the electricity network itself at risk from electric shock, fire and physical injury.

- **Safety Clearances**

The construction of any building or structure (including fencing, signage, flag poles etc.) whether temporary or permanent must comply with the minimum safe distances / clearances for voltages up to and including 132,000 volts (132kV) as specified in:

- Australian/New Zealand Standard AS/NZS 7000 – 2016: 'Overhead line design' as updated from time to time.
- 'Service and Installation Rules of NSW' which can be accessed via the following link to the NSW Planning & Environment website: <https://energy.nsw.gov.au/government-and-regulation/legislative-and-regulatory-requirements/service-installation-rules>.

As a guide please find attached a copy of Endeavour Energy Drawing 'Overhead Lines Minimum Clearances Near Structures'.

- **Vegetation Management**

The planting of large trees in the vicinity of electricity infrastructure is not supported by Endeavour Energy. Suitable planting needs to be undertaken in proximity of electricity infrastructure. Only low growing shrubs not exceeding 3.0 metres in height, ground covers and smaller shrubs, with non-invasive root systems are the best plants to use. Larger trees should be planted well away from electricity infrastructure (at least the same distance from overhead power lines as their potential full grown height) and even with underground cables, be installed with a root barrier around the root ball of the plant. Landscaping that interferes with electricity infrastructure may become a potential safety risk, cause of bush fire, restrict access, reduce light levels from streetlights or result in the interruption of supply. Such landscaping may be subject to Endeavour Energy's Vegetation Management program and/or the provisions of the Electricity Supply Act 1995 (NSW) Section 48 'Interference with electricity works by trees' by which under certain circumstances the cost of carrying out such work may be recovered.

- **Dial Before You Dig**

Before commencing any underground activity the applicant is required to obtain advice from the **Dial Before You Dig 1100** service in accordance with the requirements of the Electricity Supply Act 1995 (NSW) and associated Regulations. This should be obtained by the applicant not only to identify the location of any underground electrical and other utility infrastructure across the site, but also to identify them as a hazard and to properly assess the risk.

- **Excavation**

The applicant should be advised of the following object of Section 49A 'Excavation work affecting electricity works' of the Electricity Supply Act 1995 (NSW) covering the carrying out or proposed carrying out of excavation work in, on or near Endeavour Energy's electrical infrastructure.

Electricity Supply Act 1995 No 94

Current version for 1 August 2018 to date (accessed 4 September 2018 at 08:54)

Part 5 > Division 2 > Section 49A



49A Excavation work affecting electricity works

- (1) This section applies if a network operator has reasonable cause to believe that the carrying out or proposed carrying out of excavation work in, on or near its electricity works:
 - (a) could destroy, damage or interfere with those works, or
 - (b) could make those works become a potential cause of bush fire or a potential risk to public safety.
- (2) In those circumstances, a network operator may serve a written notice on the person carrying out or proposing to carry out the excavation work requiring the person:
 - (a) to modify the excavation work, or
 - (b) not to carry out the excavation work, but only if the network operator is of the opinion that modifying the excavation work will not be effective in preventing the destruction or damage of, or interference with, the electricity works concerned or in preventing those works becoming a potential cause of bush fire or a potential risk to public safety.

If any excavation work affects Endeavour Energy's electricity infrastructure, prior contact must be made to Endeavour Energy's Regional Services Central via

Head Office enquiries on telephone: 133 718 or (02) 9853 6666 from 8am - 5:30pm or alternately email Regional.ServicesCentral@endeavourenergy.com.au

- Public Safety

Workers involved in work near electricity infrastructure run the risk of receiving an electric shock and causing substantial damage to plant and equipment. I have attached Endeavour Energy's public safety training resources, which were developed to help general public / workers to understand why you may be at risk and what you can do to work safely. The public safety training resources are also available via Endeavour Energy's website via the following link:

<http://www.endeavourenergy.com.au/wps/wcm/connect/ee/nsw/nsw+homepage/communitynav/safety/safety+brochures> .

If the applicant has any concerns over the proposed works in proximity of the Endeavour Energy's electricity infrastructure to the road verge / roadway, as part of a public safety initiative Endeavour Energy has set up an email account that is accessible by a range of multiple stakeholders across the company in order to provide more effective lines of communication with the general public who may be undertaking construction activities in proximity of electricity infrastructure such as builders, construction industry workers etc. The email address is Construction.Works@endeavourenergy.com.au .

- Emergency Contact

In case of an emergency relating to Endeavour Energy's electrical network, the applicant should note the Emergencies Telephone is 131 003 which can be contacted 24 hours/7 days. Endeavour Energy's contact details should be included in any relevant risk and safety management plan.

I appreciate that not all the foregoing issues may be directly or immediately relevant or significant to the Development Application. However, Endeavour Energy's preference is to alert proponents / applicants of the potential matters that may arise should development within closer proximity of the existing and/or required electricity infrastructure needed to facilitate the proposed development on or in the vicinity of the site occur.

Could you please pass on a copy of this submission and the attached resources to the applicant? Should you wish to discuss this matter, or have any questions, please do not hesitate to contact me or the contacts identified above in relation to the various matters. Due to the high number of development application / planning proposal notifications submitted to Endeavour Energy, to ensure a response contact by email to property.development@endeavourenergy.com.au is preferred.

Yours faithfully
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From: Melissa Anderson [mailto:Melissa.Anderson@planning.nsw.gov.au]
Sent: Thursday, 18 July 2019 4:12 PM
Subject: Notification of Exhibition of Dendrobium Mine Extension project (SSD 8194)

The Department of Planning, Industry and Environment has received an Environmental Impact Statement (EIS) for the **Dendrobium Mine Extension Project (SSD 8194)**.

The EIS will be publicly exhibited from 25/07/2019 to 18/09/2019.

The EIS can also be accessed after 25/07/2019 at <https://www.planningportal.nsw.gov.au/major-projects/project/9696>

The Department invites you to comment on the proposal, including providing advice on recommended conditions by the due date of **18/09/2019**.

If you have any enquiries, please contact Jessie Evans on (02) 9274 6419 at jessie.evans@planning.nsw.gov.au

Kind regards
Melissa

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The Department of Planning, Industry and Environment acknowledges that it stands on Aboriginal land. We acknowledge the traditional custodians of the land and we show our respect for elders past, present and emerging through thoughtful and collaborative approaches to our work, seeking to demonstrate our ongoing commitment to providing places in which Aboriginal people are included socially, culturally and economically.