

3 October 2018

Endeavour Energy Ref: ARP3419 – 2017/00521/001

Cardno NSW Pty Ltd
Level 1 47 Burelli Street
WOLLONGONG
NSW 2500

Attention: Adam Clarke

ARP3419 – Asset Relocation of 132kV feeders | Gilba Road, YALLAH

Dear Adam,

Thank you for your application providing information of the proposed development at the above location. Your application has been registered under the above reference number. Please quote this reference number on all future correspondence.

This connection offer is made in accordance with the Terms and Conditions of the Model Standing Offer for a Standard Connection Service available on our website. To accept this offer, please complete the enclosed Notice of Advice form and obtain your pre-qualified Level 3 Accredited Service Provider (ASP) signature on the form prior to returning it to Endeavour Energy.

Endeavour Energy has completed a preliminary desk top assessment of the information provided in your application and issued an enclosed Supply Offer. Your next step is to obtain the services of a Level 3 ASP to prepare and provide an electrical design to Endeavour Energy in the form of a Proposed Method of Supply. This activity is customer funded contestable work and you will need to pay for it. An estimate of fees related to review of your design is attached.

Please note under the National Electricity Rules (NER) customer may choose to enter into a negotiated agreement. A negotiation framework describing this process is available on our website.

Should you have any enquiries regarding your application please contact the undersigned.

Yours faithfully,

David Ho

David Ho

Contestable Works Project Manager | **Network Connections** | Asset Management

☎ Direct: (02) 9853 7901

✉ Email: david.ho@endeavourenergy.com.au

3 October 2018

Endeavour Energy Ref: ARP3419 – 2017/00521/001

Endeavour Energy
PO Box 811
Seven Hills NSW 1730
cwadmin@endeavourenergy.com.au

Attention: Contestable Works Administrator

NOTICE OF ADVICE

**APPOINTMENT OF ACCREDITED DESIGNER FOR THE PROPOSED DEVELOPMENT AT:
LOT DP GILBA ROAD, YALLAH**

*** Please complete and return when a Level 3 Service Provider has been nominated***

Please accept this letter as notification that I intend to proceed with the development described above. I own or am developing the land and works on the land, (and/or where relevant on public land). I intend to supply this development to Endeavour Energy requirements.

By signing this Notice of Advice I am accepting the Terms and Conditions of Endeavour Energy's Model Standing Offer for a Standard Connection Service.

- Electricity Supply to Developments.

The Level 3 Service Provider appointed is:.....

The Fees will be Paid to Endeavour Energy by:

.....
Signature of Level 3 ASP

.....
Name of Level 3 ASP

.....
Signature of Applicant/ Applicant's Representative

.....
Name of Applicant/ Applicant's Representative

.....
Date

.....
Company Name

The signatory warrants that they are authorised to execute this Application.

APPLICATION NO: ARP3419

DATE: 3 October 2018

SUBJECT: SUPPLY OFFER FOR

Gilba Road, YALLAH

Endeavour Energy has carried out a desk top assessment and has prepared the attached Supply Offer for this development.

The supply offer will assist your Level 3 ASP to develop the most efficient solution to meet your needs whilst complying with Endeavour Energy's standards and with the Terms and Conditions of the Model Standing Offer for a Standard Connection Service. Please find below a list of some requirements that will need to be addressed by your nominated Level 3 ASP.

- Field visit to verify physical details
- Trench length
- Cable length
- Length of cable using existing ducts
- Length of new ducts required to be installed
- Substation location shown on a preliminary sketch and HV switchgear numbers
- Types and number of poles to be replaced or installed
- Complexity of trenching (ie rock, under-bore, commercial area etc)
- Earthing requirements and complexity
- Overhead construction and isolation point requirements
- Asset Valuation form must be completed including any extraordinary costing requirements
- Environmental issues addressed in a fully documented Environmental Assessment
- Generation requirements
- Rail Crossing requirements

A sketch of the proposed design utilising the GIS as a base must be returned with the above information.

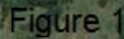
This Supply Offer is part of the Connection Offer for a Standard Connection Service and is valid for three (3) months from the date of issue.

Where this Connection Offer has lapsed, you or your Level 3 ASP must contact Endeavour Energy with the request to extend the Connection Offer. Endeavour Energy will assess your request and will inform you of the outcome. It must be recognised that the network is being constantly extended/augmented as new customers get connected. This means that for your Connection Offer to be extended, your Supply Offer may require alteration. If this is the case, additional fees to cover administrative costs may apply.

The fees applicable to this phase of the project will need to be paid prior to design certification and are outlined in the Network Price List available on the Endeavour Energy website.

(Based on a desktop assessment)

It is proposed to relocate two of the Endeavour Energy's 132kV twin circuit tower lines in order to facilitate the new subdivision development



In November 2017, referring to Technical Review ENL2770, Endeavour Energy had conducted a high level feasibility study that determined it is technically possible to divert part or all four 132kV feeders for approximately one kilometer through the proposed subdivision. The approximate location of the feeders that considered for the relocation is south of Towers 211922/307 and 211923/407 adjacent to Parade Yallah, to the section north of Tower 211964/403A and poles 759620/795626 approximately 500 meters north east of the Tallawarra switching station.

Feasibility to relocate the four feeders is subject to a number of criteria which will contribute the technical complexities and variations in cost to relocate. However, two criteria were identified that most influence both complexity and cost. They are the minimum required line rating that must be maintained as part of the relocation and network access and outages to each line during construction.

Proposed Method of Asset Relocation

Presently the developer may consider two main alternatives for this relocation.

1. Undergrounding the existing OH feeders along the same alignment and within the current easement.
2. Relocate the existing OH lines in this section to the northern perimeter of the proposed redevelopment area via four new OH steel pole lines

Most likely, the preferred proposed MOS is to realign the existing feeders; via a set of 4 x steel poles to the northern side of the proposed redevelopment.



Network Constraints & Limitations

The preferred overhead option will be subject to acquisition of significant easements in Endeavour Energy's favour. Easements would also include requirement for the access tracks. The minimum required easement width considering the requirements and guidelines as specified in Endeavour Energy MDI0044 clause 5.3.

Environmental impact assessment must be considered irrespective of the proposed relocation, however with an overhead relocation, environmental assessment; in particular visual amenity is important at initial feeder relocation concept due to project risks associated with community consultation.

An overhead relocation is subject to development planning and feeder design concept, therefore further consideration is required to better manage and reduce these risks

Network Access

To reduce the outage time, the construction of deviated lines except the first set of poles (between Tower# 307 & 306 and Tower 407 & 406) and reconnections at tower 211964/403A and poles 759620/795626, will be done while the feeders are energized.

Design Requirement

In order to progress relocation works, it is recommended that the developer or their representatives engage the services of a Level 3 Accredited Service Provider (ASP/3) prequalified by Endeavour to design 132kV overhead and steel tower lines.

Subsequent proposed method of asset relocation submitted by the appointed ASP/3, including concept designs, and agreed by Endeavour. Following an agreed concept and proposed method of asset relocation, Endeavour must develop a Project Definition funded by the customer as design information for the ASP/3 to continue to detailed design stage. The cost of a Project Definition for this type of project is in the order to \$25,000 and will take up to 12 weeks to complete.