

Grant Harlow

From: Jeff Smith <Jeffrey.Smith@endeavourenergy.com.au>
Sent: Thursday, 8 July 2021 9:30 AM
To: Grant Harlow
Subject: RE: S29/3/97-Mod-1 - Eastern Creek Karts, Departments design comments

Dear Grant,

I can confirm that these two items are currently outstanding, to finalise the assessment.

Regards



Jeff Smith
Easement Management Officer
Transmission Northern Region
Endeavour Energy
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T: 131 081
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From: Grant Harlow <GHarlow@martens.com.au>
Sent: Thursday, 8 July 2021 9:21 AM
To: Jeff Smith <Jeffrey.Smith@endeavourenergy.com.au>
Subject: RE: S29/3/97-Mod-1 - Eastern Creek Karts, Departments design comments

Hi Jeff,

Thank you. Can you please confirm I am reading the attached correspondence between Endeavour Energy and DPIE correctly and that the only items that remain currently outstanding from Endeavour Energy's perspective are:

- 1) An updated Centre-Line Profile including current levels and the proposed Levels.
- 2) The 132kv Earth Potential Rise Assessment Report.

Regards,

Grant Harlow | Project Manager & Senior Engineer
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From: Jeff Smith <Jeffrey.Smith@endeavourenergy.com.au>
Sent: Thursday, 8 July 2021 8:26 AM
To: Grant Harlow <GHarlow@martens.com.au>
Subject: RE: S29/3/97-Mod-1 - Eastern Creek Karts, Departments design comments

Dear Grant,

Thank you for your email.

You will need to engage a Level 3 Accredited Service Provider (ASP) to conduct the 132kv Earth Potential Rise Assessment Report.

A full list of a Accredited Service Providers (ASP) can be found at <https://energysaver.nsw.gov.au/households/you-and-energy-providers/installing-or-altering-your-electricity-service>

I have attached additional information for your perusal.

Regards

Jeff Smith
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Transmission Northern Region
Endeavour Energy
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From: Grant Harlow <GHarlow@martens.com.au>
Sent: Tuesday, 6 July 2021 12:47 PM
To: Jeff Smith <Jeffrey.Smith@endeavourenergy.com.au>
Subject: FW: S29/3/97-Mod-1 - Eastern Creek Karts, Departments design comments

Hi Jeff,

We are addressing remaining issues in the Eastern Creeks Karts above matter.

The attached email from Cornelious Duba (Endeavour Energy) to Chris Fraser (DPIE) indicates that there remains a few EE concerns.

From my review of the email I understand that you require two further things to allow completion of the assessment being the two dot points shown herein:

For Endeavour Energy to reassess your proposal, we will require the following:

- A Centre-Line Profile, as per the requirements stipulated within *clause 6* of the General Restrictions for Overhead Power Lines.
This must include the Current Levels and the Proposed Levels.
- A 132,000 volt Earth Potential Rise Assessment Report as described in the *Electrical Hazards in Pipeline Construction* attachments.

Can you advise if this is correct?

I note that we have made some slight adjustments to the proposed carpark surface mainly for drainage reasons. These are minor and do not result in any material change to the centreline profiles previous supplied. We will however provide you with an updated set of profiles.

With regard to the **132,000 volt Earth Potential Rise Assessment Report**, can you provide some further information on this – we were not sent the “attachments” as referenced in dot point two. I need to arrange such a report to be undertaken ASAP so would appreciate if you can advise who typically prepares these reports.

Thanks kindly. Happy to discuss.

Regards,

Grant Harlow | Project Manager & Senior Engineer

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Please consider the environment before printing this email.

From: Christopher Fraser <Christopher.Fraser@planning.nsw.gov.au>

Sent: Monday, 31 May 2021 9:54 AM

To: Grant Harlow <GHarlow@martens.com.au>

Subject: S29/3/97-Mod-1 - Eastern Creek Karts, Departments design comments

Hi All,

Following on from our discussions on design requirements on 26th and 28th May 2021 for the above please see the following notes for design work :-

1. Endeavour Energy appears to have a design vehicle which should be clarified. The swept out path of this vehicle should be compatible with the final carpark design (as well as the front-in turning arrangements for car-trailer combinations).
2. The vehicle's design height should be ascertained to ensure EE is satisfied with vehicle height, fill height, and consequent clearances to aerial conduits to prevent arcing.
3. The design storm for the general performance of the system is 100 year ARI, with additional performance measures for the PMF where agreed with third parties and as design check on impacts to Prospect Reservoir land
4. The height of the approach ramp adjacent the southern boundary sag point is lower than the height of the swale(s) or retaining adjacent 10 Raceway Close to direct upstream flows to the sag. A minimum 300 mm freeboard must be added to protective swales or retaining designed for this purpose.
5. Blockages applied are per Council minimums. Subsequently, risk of blockage should be detailed per Dept. letter 13 May 2021 Section 2.2. Risk of blockage resulting from existing boundary fencing filtering effects and any ancillary GPT design should be asserted as low.

6. The culvert is generally sized for at least the 100 yr ARI after applying design blockage, and sized for the PMF after blockage would be desirable.
7. The southern boundary and eastern boundary swales should be designed for at least the 100 yr ARI. Grassed swales are an option however it depends how they perform with design flowrates. Concrete lined swales can reduce roughness. Provide a statement on impacts of this design on existing trees.
8. As example, the 100 yr ARI should be contained entirely within Karts land swales. A design check must be shown on TUFLOW output to ascertain impact on Prospect Reservoir land during the PMF, with preferably low hazard H1 results, to ensure constant and safe WaterNSW access on its perimeter road.
9. Design matters in Dept. letter 13 May Sections 3, 4 and 5 appear not contentious.
10. Landscaping is emerging as necessary to reduce visual impact on the fill work, though subsequent to final drainage and carpark design. Allowance should be made for paving, kerbing and AS 2890 -compliant safety railing.
11. The landscape professional may consider locating trees, if they assist in reducing visual impacts, away from paving, safety devices and batters. Please provide more detailed landscape plans.

For any additional subject areas please advise on this email,

Thank you,

Regards,

Chris Fraser

Environmental Assessments Officer
Industry Assessments

4 Parramatta Square, 12 Darcy Street | Locked Bag 5022 | Parramatta NSW 2124

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From: Christopher Fraser

Sent: Wednesday, 26 May 2021 6:44 PM

To: Grant Harlow <GHarlow@martens.com.au>

Cc: Daniel Martens <DMartens@martens.com.au>; Calvin Li <cli@martens.com.au>; Barbara Long <BLong@martens.com.au>

Subject: RE: P2108122 - Eastern Creek Karts, Departments design comments

Hi All,

Yes Friday between 9 and 10am is clear at the moment. Feel free to send Teams invites

As requested please see Endeavour Energy comments on the RtS attached,

Thank you,

Regards,

Chris Fraser

Environmental Assessments Officer
Industry Assessments

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From: Grant Harlow <GHarlow@martens.com.au>

Sent: Wednesday, 26 May 2021 10:40 AM

To: Christopher Fraser <Christopher.Fraser@planning.nsw.gov.au>

Cc: Daniel Martens <DMartens@martens.com.au>; Calvin Li <cli@martens.com.au>; Barbara Long <BLong@martens.com.au>

Subject: RE: P2108122 - Eastern Creek Karts, Departments design comments

Hi Chris, thank you for talking to us this morning.

Can you please forward the Endeavour Energy comments as discussed (or link).

Regarding continuation of our discussions, are you available between 9 and 10am on Friday morning this week? Otherwise what is your availability like for Monday next week.

Regards,

Grant Harlow | Project Manager & Senior Engineer

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