



TRANSPOWER

Keeping the energy flowing

Waikoukou
22 Boulcott Street
PO Box 1021
Wellington 6140
New Zealand
P 64 4 495 7000
F 64 4 495 6968
www.transpower.co.nz

30 August 2021

Mark Zwies
Network Asset Manager
PowerNet
PO Box 1642
Invercargill 9840

Dear Mark,

**ATTENTION:
Extended Reduction in Transmission Security for Naseby 2021/22 -
Update**

Just a reminder that Transpower's project to replace the conductor on its transmission line between Livingstone and Roxburgh that also supplies Naseby, continues on the ground again shortly. This replacement is required to provide greater capacity – particularly important if the Tiwai smelter closes as indicated by New Zealand Aluminium Smelters last year.

As you know, in order to meet our expected completion date of May 2022, we have been working more intensively on the ground, and this has impacted on the security of Naseby's electricity supply over the last 8 months.

The purpose of this letter is to update on the implications of a lessened security for Naseby for the remainder of the project.

Update

Due to our progress on the ground, and efficiencies identified during planning, we have been able to further reduce the time that Naseby is expected to be on N security. The 51 weeks we expected at the commencement of the project has been reduced to around 43 weeks – with just 22.5 weeks left of N security to complete the project. The updated periods of N security are as per the table below:

Dates	Duration	Status
From 12 January 2021 through to 3 June 2021	20.5 weeks	Completed
From 4 October 2021 to 13 November 2021	5.5 weeks	Confirmed
From 26 November 2021 to 13 December 2021	2.5 weeks	Confirmed
From 18 January 2022 to 29 April 2022	14.5 weeks	Confirmed
<i>TOTAL</i>	<i>43 weeks</i>	

What's the risk to your consumers?

Normally, Transpower's supply to Naseby is such that a failure of any equipment will not cause an outage for consumers. However, during this work any failure of the remaining circuit will cause an outage to your consumers. This is because the limitations to protection hardware mean that we cannot have auto-reclose enabled at Naseby, whilst this site is connected to a single 220kV circuit. As you know, auto-reclose when operating would quickly attempt to bring the tripped circuit back in (useful for events like lightning strikes or momentary faults on the line).

As seen to date there have been no events leading to a loss of supply to Naseby, since we commenced work in early January. We believe continued prudent management of mitigating factors (as detailed below) will assist us in getting through the remainder of your Naseby N security period in similar vein.

As per our last communication, in the very unlikely event of a significant fault such as a tower failure on the line, the outage period could be as much as 96 hours to install an emergency structure. If there is a more significant event that requires the outage to be recalled (such as station equipment failure), we anticipate up to 14 days will be required to do so (depending on the status of the reconductoring work at that time).

What contingency plans are in place?

Transpower has checked its equipment that will be relied upon during this reduced level of supply security at Naseby, and we are comfortable that we have done all that we can to mitigate the risk of any other equipment tripping during this time. We are also keeping our maintenance crews handy to site to avoid long travel times, and we have briefed local helicopter companies (to allow rapid mobilisation following a fault occurring).

If an outage does occur, Transpower will follow its Customer Facing Event Communications guideline. This includes operational management of the outage, keeping PowerNet informed, answering any media queries and keeping the public updated through our Facebook page: www.facebook.com/transpowernz.

Please feel free to provide this information to your key customers supplied by Naseby as you see fit, to ensure they are aware of the higher risk of outage during this time and can plan accordingly.

Yours sincerely,



Simon Leitch
Project Operations Manager – Clutha Upper Waitaki Lines Project

CC: Anton Booyzen, GM Asset Management, PowerNet