

BEFORE THE HEARINGS PANEL

In the Matter of: The Resource Management Act 1991

And Proposed Plan Change 48:
Designations

Application By: Taupō District Council

SECTION 42A (ADDENDUM 1) OF THE RMA REPORT BY CHRISTLE PILKINGTON

Dated: 19 June 2026

1. PURPOSE AND SCOPE OF THIS ADDENDUM.

1. This addendum to the Section 42A Report for Taupō District Plan Change 48 – Designations has been prepared to respond to the matters raised in the Hearing Statement provided by Transpower New Zealand Ltd (Transpower), dated 11 June 2026.
2. Transpower request further amendments to designations, either due to the omission of minor details in the recommendations made within the s42A report relating to TPR01, TPR08, TPR09, and TPR10, or following discussion and agreement between Transpower and Contact Energy Ltd (Contact) on changes sought by Contact to TPR07, and TPR08.
3. Transpower note that, in relation to TPR01 and TPR02, the online Planning Maps do not accurately show the modifications sought to the spatial extent of designations. I support the changes sought and have recommended the maps be amended per Transpower’s revised spatial extents in the s42A report for Plan Change 48. The Planning Maps would be updated upon recommendation and confirmation of designations in due course.

2. TPR01 – Aratiatia Electricity Outdoor Switch Yard

4. Transpower, in their rollover notice, requested the site identifier field of TPR01 be updated to reflect the correct legal description of the site on which the outdoor switch yard is located.
5. The District Plan records the site identifier as:
Aratiatia Village
Section 1 SO 59582 Block XI
6. Transpower sought to correct this in their rollover notice, as follows:
Part of: Section 1 Survey Office Plan 59582, and Lot 2 Deposited Plan South Auckland 83982
7. For completeness, the changes sought are shown in strikethrough (deleted text) and underline (inserted text), as follows:
~~Aratiatia Village~~
Part of: Section 1 SO 59582 Block XI, and Lot 2 Deposited Plan South Auckland 83982

8. I recommend the change sought be recommended by the Panel, and the designation confirmed by Transpower accordingly. I do not consider that updating the legal description to reflect the location of existing infrastructure more accurately would generate any material effect, and therefore no further assessment of environmental effects is provided.
9. I note that the changes sought to the Planning Maps have not yet been made operative, but my recommendation to the Panel has been to accept the mapping changes sought, as notified in Plan Change 48.

3. TPR02 – Aratiatia Electricity Outdoor Switch Yard

10. Transpower have provided amended mapping for TPR02.
11. I note that the changes sought to the Planning Maps have not yet been made operative, but my recommendation to the Panel has been to accept the mapping changes sought, as notified in Plan Change 48.

4. TPR07 – Wairakei Electricity Outdoor Switchyard

12. Contact lodged a further submission on Transpower's submission, supporting in part and seeking relief in the form of modifications to the Planning Maps and Site Identifiers for TPR07 and TPR10. One of the modifications sought were to TPR07, to reflect a License to Occupy between Contact and Transpower.
13. My recommendation to the Panel was to reject the further submission, given discussions between Contact and Transpower had not concluded by the date of issuing my s42A report. I did, however, note that I would be supportive of any further modifications sought through evidence to more accurately reflect the operational infrastructure arrangements in place.
14. Transpower have provided further evidence by way of their Hearing Statement, seeking modification to TPR07 to update both the Site Identifier and Planning Maps. The changes sought to the Planning Maps are shown clearly in the table on Page 9 of Transpower's Hearing Statement.

15. Should the revised mapping be recommended and confirmed, a consequential amendment to the Site Identifier for TPR07 would be required, to also include Section 20 SO 438784. The changes would be as follows (inserted text underline):

746 State Highway 1, Wairakei

Section 1 SO 59580, and Section 20 SO 438784

16. I understand the changes sought adequately address the earlier concerns raised by Contact in this regard.
17. The modification affects existing and operational infrastructure, to which both Contact and Transpower have interests in. No other parties have been identified as being affected by any modification to TPR07. Given both Contact and Transpower have sought the same relief, either through further submission or further evidence, I do not consider any persons to be adversely affected by the proposed modification. I do not consider the modification would generate any material effect on the environment.

5. TPR08 – Whakamaru North and Whakamaru South Electricity Substation, Switchyard, and Line Connections

18. Modifications to the condition schedule of TPR08 were sought by Transpower and recommended in my s42A report.
19. Upon review of the revised condition schedule appended to the s42A report as Appendix B, Transpower have identified that a small number of consequential numbering amendments were not made correctly. Where a condition requires compliance with external standards or guidelines, Transpower seek additional wording to recognise any revision to those documents.
20. A minor amendment to condition 19 is also requested, following discussion with Contact, to narrow the area of requirement for a noise management plan. Presently, the condition requires a noise management plan be prepared for the whole transmission line, and Transpower seek

to amend this to any “construction portion”. Given the line is now constructed, I consider the modification sought to be sensible and to adequately manage effects arising from any future works.

21. Consequently, I recommend the following condition schedule for TPR08 replaces Condition Schedule TPR02 in Appendix B to my report (inserted text in green underline and deleted text in ~~red strikethrough~~, for clarity):

Documents:

1. Subject to the conditions below, the initial works to give effect to the designation shall be generally in accordance with the following plans and profiles:
 - a. Final Centreline Plan & Profiles, Structures: 423–429 (excluding tower 429). NIGUP-NOR, sheet 63/63, revision B contained in Transpower Map Book Series 6a–Plans and Profiles (undated and no page number).

Tower Heights and Locations:

2. Tower heights and locations shall be generally in accordance with the plans and profiles, except that:
 - a. tower height can exceed that shown on the plans and profiles by up to three metres;
 - b. where tower locations are moved in accordance with (d) and (e) below, tower heights can exceed those in the plans and profiles by up to five metres;
 - c. no tower shall exceed 70 metres in height;
 - d. tower sites may be moved up to five metres laterally;
 - e. tower sites may be moved up to 40 metres along the alignment.

Archaeology:

3. All Site Works Plans shall contain a warning of the possibility of archaeological sites being found, particularly in the vicinity of rock outcrops and larger streams. This warning shall apply to geotechnical testing, vegetation clearance and construction works.

Waikato Hydro Scheme

4. The requiring authority shall undertake all works or activities, including the erection of structures, in a manner that does not prevent or hinder the continued operation of the Waikato Hydro Scheme in accordance with resource consents held by Mighty River Power Limited

(issued by Waikato Regional Council, commencing on 10 April 2006, and numbered 105226 to 105240 inclusive).

Cultural / Spiritual

5. If any urupā, traditional sites, taonga (significant artefacts) or kōiwi (human remains) are exposed during site works, then the following procedures shall apply:

- a. works in the immediate vicinity of the site that has been exposed shall cease;
- b. the site supervisor shall immediately secure the area in a way that ensures that any remains or artefacts are untouched;
- c. the site supervisor shall notify representatives of relevant tāngata whenua, the New Zealand Historic Places Trust, Taupo District Council and, in the case of human remains, the New Zealand Police; and
- d. the notification in c. above shall allow such persons being given a reasonable time to record and resolve archaeological features discovered before work may recommence.

Electric and Magnetic Fields (EMF)

6. The works shall be designed and constructed to limit the EMF exposure to the International Commission on Non-Ionising Radiation Protection Guidelines for limiting exposure to time varying electric, magnetic, and electromagnetic fields (up to 300 GHz) (Health Physics, 1998 74(4): 494– 552) [or revisions thereof](#) (ICNIRP Guidelines) public reference levels of 5 kV/m for electric fields and 100 µT for magnetic flux density at one metre above ground under maximum normal operating conditions (ie, when there are no faults in the transmission system).

7. In order to reduce long-term public exposure to EMFs no building shall be constructed within the designated corridor for the 400-kV capable transmission line.

Earth potential rise / induced currents

8. In designing and constructing the line, Transpower shall give consideration to third party conductive structures and services to ensure compliance with regulations 58, 60, 69 and 87 of the Electricity Regulations 1997 as in force at the date of confirmation of the designation.

9. The works shall be designed and constructed to comply with AS/NZS4852:2000 Electrical Hazards on Metallic Pipelines.

10. Prior to commissioning, Transpower shall have an appropriately qualified person assess all conductive structures in the vicinity of the transmission line. Any hazard shall undergo a risk assessment in accordance with the Electricity Engineers' Association Guide to Risk-Based Earthing System Design. Transpower will carry out mitigation measures to address significant risks relating to earth potential rise and induction effects associated with the line.

Radio frequency interference

11. All works shall be designed to comply with NZS 6869:2004 Limits & Measurement Methods of Electromagnetic Noise from High-Voltage a.c. Power Systems, 0.15 to 1000 MHz.

Operational noise

12. The operation of the transmission line shall not emanate a noise that exceeds a limit of 40 dBA Leq beyond the boundaries of the designation. Measurements shall not be undertaken during heavy rain.

13. Sound levels shall be measured and assessed in accordance with NZS6801:1991 Measurement of Sound and NZS6802:1991 Assessment of Environmental Sound.

Pre-construction activities

14. Prior to construction commencing, Transpower shall appoint a Landowner Liaison Officer, who will:

- a. be responsible for maintaining contact with landowners and occupiers of each property prior to, and during construction; and
- b. have a contact role with the landowner during the development of the Site Works Plan (SWP) for individual properties.

15. Transpower shall make copies of individual SWPs available to Taupō District Council for information purposes, upon request.

Construction Management Plan (CMP)

16. Prior to commencement of any construction activity authorised by the designation, Transpower shall submit a construction management plan to the Council's Consents Officer for approval. The Council's Consents Officer shall respond within 15 working days. Approval shall

not be unreasonably withheld. The construction management plan shall outline Transpower's intended approach to:

- a. land stability management and sediment controls;
- b. storage and reuse of topsoil;
- c. management and disposal of spoil;
- d. groundwater and stormwater management, treatment, and disposal;
- e. silt and dust control, during earthwork stages;
- f. traffic/access management;
- g. temporary activities and equipment storage in specified areas;
- h. security and lighting during construction;
- i. contaminated land management procedures;
- j. construction noise (as set out in conditions 39–42), dust and vibration;
- k. hours of work;
- l. existing network utilities' protocols and guidelines;
- m. subject to other specific conditions, cultural protocols, and archaeological requirements;
- n. vegetation clearance, disposal, and restoration;
- o. the intended construction programme (including staging if appropriate);
- p. protocols and procedures for road controlling authorities and rail operators, where the line crosses that infrastructure;
- q. community information and liaison;
- r. contractor training; and
- s. generic contents of Site Works Plans (SWPs).

Nothing in this condition allows the Council, or any other party, to require more onerous controls than contained in the designation conditions.

Construction and maintenance noise

17. All construction and maintenance work shall be designed, managed and conducted to ensure that construction and maintenance noise from the designated area does not exceed the limits in NZS6803:1999 Acoustics— Construction Noise at locations set out in section 6.2 of that standard.

18. The noise limits required by condition ~~39~~ 17 shall not apply to emergency work required to re-establish continuity of supply, urgently required to prevent loss of life or other personal injury or commissioning works, but all practicable steps shall be undertaken to control noise and to avoid adverse noise effects particularly at times when the stricter noise limits apply (eg, at night time).

19. Prior to any significant construction work taking place, including any earthworks, a noise management plan applicable to the construction and commissioning stages shall be prepared for the ~~whole~~ construction portion of the line, with the assistance of a suitably qualified and experienced person. The plan shall set out the management procedures in terms of section 8 and Annex E of NZS6803:1999 and the works shall be undertaken in accordance with that noise management plan.

20. The noise management plan required by condition ~~41~~ 19 shall be submitted to the Council's Consents Manager at least 20 working days prior to the works commencing.

Vibration

21. Vibration from all construction activities shall not exceed the limits of, and shall be measured in accordance with, German Standard DIN 4150-3 (1999-02) Structural Vibration – Effects of Vibration on Structures.

Aviation

22. Transpower shall, on a monthly basis during the construction of the line, inform the New Zealand Agricultural Aviation Authority, the Civil Aviation Authority and Ardmore Airport Limited (in relation to the towers within the conical surface only, as set out in the Appendix Map 8, Ardmore Aerodrome Protection Measures, Manukau Operative District Plan, 2002) of the construction activities completed in the previous month, and intended to be undertaken in the following month including:

- a. erection of specific towers (with locations and heights); and
- b. stringing of conductor and earthwires between specified towers.

For the avoidance of doubt, the requirement in condition ~~44~~ 22 applies to each tower and conductoring of each tower, not merely the commencement of tower erection or conductoring.

Traffic Management Plan (TMP) for road crossings and local roads

23. Transpower shall prepare a series of traffic management plans for road crossings and local roads used by heavy traffic (TMPs) in accordance with Transit New Zealand's Code of Practice for Temporary Traffic Management (COPTTM), after consultation with (as relevant):

- a. Taupō District Council (Road Controlling Authority);
- b. New Zealand Transport Agency (NZTA); and
- c. the following key stakeholders:
 - i. emergency services (including police);
 - ii. bus operators;
 - iii. schools;
 - iv. Housing New Zealand Corporation;
- d. any additional key stakeholders identified by Taupō District Council.

24. A TMP shall be submitted to the Council and NZTA (where relevant) at least 20 working days prior to the commencement of construction of the relevant road crossing works, or works affecting local roads. The plans may be submitted in stages, with each stage being submitted at least 20 working days prior to the commencement of the work the subject of that stage.

25. The TMP prepared by Transpower shall recognise that the paramount purpose of roads is the free passage of the public and its vehicles.

26. The TMPs shall address and provide details of proposed road crossing works and general use of local roads by heavy vehicles and/or mitigation measures relating to the following matters:

- a. details of the installation of any protection measures including, but not limited to, hurdles for subsequent line construction purposes;
- b. details of any necessary temporary road closures, diversions, or deviations which are likely to be required during road crossing activities, including the likely date, time, and duration of such matters (any necessary temporary road closures should be effected during off-peak periods unless this is impracticable or would have adverse impacts on adjacent properties);
- c. where diversions or deviations are required, information shall be provided by a suitably qualified and experienced traffic engineer of the traffic volumes and capacities

- of alternative routes, to ensure that such routes are both convenient and capable of safely accommodating any such diverted or deviated traffic;
- d. details of the proposed signage to advise motorists, residents, stakeholders, and other road users of any road closures, diversions and delays, such signage to be sufficiently clear to be capable of ready understanding by the general public and installed at appropriate locations at least seven days in advance of such road closures, diversions and delays;
- e. details of methods of proposed information dissemination regarding construction activities and associated traffic effects, including but not limited to public notices in newspapers, radio announcements, information packages and direct contact with affected persons. (Such information dissemination, and the chosen method of dissemination is to be proportional to the impact);
- f. details of prior consultation or community liaison undertaken with affected residents, stakeholders, public transport providers, emergency services or representative groups regarding proposed road closures, diversions and delays, and any measures agreed with such groups to address any adverse effects or inconvenience that may arise; and
- g. identification of any measures for the purposes of mitigating adverse traffic effects of construction traffic, including safety matters (such speed restrictions and signage), relating to cyclists, pedestrians, disabled persons, and schoolchildren.

Construction entranceways off public roads

27. Prior to the commencement of construction, Transpower shall undertake a survey of the condition of the roads in the immediate vicinity of construction entranceways off public roads (consisting of a photographic survey).

28. Transpower shall repair any damage to entranceways and public roads in the vicinity of those entranceways resulting from impacts of its construction traffic.

General advice note:

1. In relation to the ARI-PAK A towers outside of the designated area, Transpower shall use its best endeavours to establish and follow the procedures in the conditions in relation to cultural/spiritual matters, construction noise, the preparation of the construction management plan and pre-construction activities.

6. TPR09 – Whakamaru to Brownhill Electricity Transmission Line

22. Modifications to the condition schedule of TPR09 were sought by Transpower and recommended in my s42A report.
23. The same condition schedule that applies to TPR08 applies also to TPR09. Therefore, the numerical references and minor amendments identified in the preceding point are relevant also to TPR09.
24. I consider my previous recommendation to adequately address relief sought in the Hearing Statement as it relates to TPR09.

7. TPR10 – Wairakei to Whakamaru C Line (WRK-WKM C Line) Electricity Transmission Line

25. NZTA submitted that the designation hierarchy of TPR10 be amended to 'varies', to reflect the varying hierarchies of TPR10 as it intersects with the State Highway network. This was supported by Transpower, and my recommendation was to amend the designation hierarchy of TPR10 accordingly.
26. The recommended change was not captured in Appendix A to my s42A report, and I recommend the Panel capture this modification in their recommendation to Transpower on TPR10.
27. As with the condition schedule for TPR08 and TPR09, Transpower have identified two instances of incorrect numerical referencing resulting from the deletion of other conditions. Similarly, amendment is sought to a condition requiring compliance with external standards to capture any revisions to the referenced document.
28. I concur that the changes to conditions would be appropriate and I therefore recommend the following condition schedule replace Condition Schedule: TPR03 in Appendix B to my s42A report (inserted text in green underline and deleted text in ~~red strikethrough~~, for clarity):

Land that is subject to the Designation

The designation applies to the land located between the Wairakei and Whakamaru Substations, Taupō District to the extent of that shown on the plans listed in General Condition 2.

Lapse

1. The designation shall not lapse for a period of 10 years after incorporation in the Taupō District Plan.

General Conditions

2. Subject to the conditions below, the works to give effect to the designation shall be generally in accordance with following information and plans:

- a. The Notice of Requirement dated 28 October 2010 and Assessment of Environmental Effects dated October 2010;
- b. The Land Requirement Plans (Maps 1 – 22 dated 20 October 2010); and
- c. The Transmission Line Plans and Profiles (Plan TSK4-Rev 2 Sheets 1 - 16).

Construction Conditions**Tower Heights and Locations**

3. Tower heights and locations shall be generally in accordance with the plans and profiles, except that:

- a. Tower height can exceed that shown on the Transmission Line Plans and Profiles by up to 5 metres up to a maximum height of 53 metres for all towers, except for Towers 102 and 103 which have a maximum height up to 57 metres;
- b. Where tower locations are moved in accordance with (c) and (d) below, tower heights can exceed those in the Transmission Line Plans and Profiles in accordance with (a) above;
- c. Tower sites may be moved up to 5 metres laterally;
- d. Tower sites may be moved up to 20 metres in either direction along the alignment.

Any changes in tower heights and sites in accordance with (a) – (d) above, shall ensure the transmission line (and its safety and operational requirements) is contained within the designated area shown on the Land Requirement Plans.

Cultural/Spiritual

4. If any urupā, traditional sites, taonga (significant artefacts) or kōiwi (human remains) are exposed during site works, then the following procedures shall apply:

- a. Works in the immediate vicinity of the site that has been exposed shall cease;
- b. The site supervisor shall immediately secure the area in a way that ensures that any remains or artefacts are untouched;
- c. The site supervisor shall notify representatives of relevant tāngata whenua, the New Zealand Historic Places Trust, Environment Waikato, Strategic Relationships Manager: Taupō District Council and, in the case of human remains, the New Zealand Police; and
- d. The notification in (c) above shall allow such persons being given a reasonable time to record and resolve archaeological features discovered before work may recommence.

Electric and Magnetic Fields (EMF)

5. The works shall be designed and constructed to limit the EMF exposure to the International Commission on Non-Ionising Radiation Protection Guidelines for limiting exposure to time varying electric, magnetic, and electromagnetic fields (up to 300 GHz) (Health Physics, 1998 74(4): 494–552) [or revisions thereof](#) (ICNIRP Guidelines) public reference levels of 5 kV/m for electric fields and 100 µT for magnetic flux density at one metre above ground under maximum normal operating conditions (i.e. when there are no faults in the transmission system).

Earth Potential Rise / Induced Currents

6. In designing and constructing the line, Transpower shall give consideration to third-party conductive structures and services to ensure compliance with regulations 58, 60, 69 and 87 of the Electricity Regulations 1997 as in force at the date of confirmation of the designation.

7. The works shall be designed and constructed to comply with AS/NZS4852:2000 Electrical Hazards on Metallic Pipelines.

8. Prior to commissioning, Transpower shall have an appropriately qualified person assess all conductive structures in the vicinity of the transmission line. Any hazard shall undergo a risk assessment in accordance with the Electricity Engineers' Association Guide to Risk-Based Earthing System Design. Transpower will carry out reasonable mitigation measures identified in the above risk assessment to address any identified significant risks relating to earth potential rise and induction effects associated with the line.

Radio Frequency Interference

9. All works shall be designed to comply with NZS 6869:2004 Limits & Measurement Methods of Electromagnetic Noise from High-Voltage a.c. Power Systems, 0.15 to 1000 MHz.

10. Prior to commencement of any construction activity authorised by the designation, Transpower shall prepare a Construction Management Plan in consultation with property owners on whose land the works will occur. The Construction Management Plan shall be submitted to the Council's Consents and Regulatory Manager, Environmental Services for approval. As a guide, the Council's Consents and Regulatory Manager, Environmental Services shall respond within 20 working days.

Approval shall not be unreasonably withheld. The Construction Management Plan shall outline Transpower's intended approach to:

- a. Land stability management and sediment controls;
- b. Storage and reuse of topsoil;
- c. Management and disposal of spoil;
- d. Groundwater and stormwater management, treatment and disposal;
- e. Silt and dust control, during earthwork stages;
- f. Traffic/access management;
- g. Temporary activities and equipment storage in specified areas;
- h. Security and lighting during construction;
- i. Contaminated land management procedures;
- j. Construction noise (as set out in conditions 19 to 20), dust and vibration;
- k. Hours of work;
- l. Existing network utilities' protocols and guidelines;
- m. Other specific conditions, cultural protocols and archaeological requirements;
- n. Vegetation clearance, disposal and restoration;
- o. The intended construction programme (including staging if appropriate);
- p. Response times to landowner enquiries;
- q. Protocols and procedures for road controlling authorities, where the line crosses that infrastructure;
- r. General community information and liaison;
- s. Requirements for contacting landowners to arrange access to property;

- t. Requirements for, and timing of, ongoing liaison to ensure landowners within the designation are kept well informed of construction matters;
- u. Contractor training; and
- v. Generic contents of Site Works Plans (SWPs).

Nothing in this condition allows the Taupō District Council, or any other party, to require more onerous controls than contained in these designation conditions.

Construction noise

11. All construction work shall be designed, managed and conducted to ensure that construction noise received beyond the boundaries of the designated area does not exceed the limits in NZS6803:1999 Acoustics–Construction Noise at locations set out in section 6.2 of that standard.

12. The noise limits required by condition ~~19~~ 11 shall not apply to emergency work required to re establish continuity of supply, urgently required to prevent loss of life or other personal injury or commissioning works, but all practicable steps shall be undertaken to control noise and to avoid adverse noise effects particularly at times when the stricter noise limits apply (e.g. at night time).

Vibration

13. Vibration from all construction activities must comply with the peak particle velocity limits in Table 1 of German Standard DIN 4150-3 (1999-02) Structural Vibration – Effects of Vibration on Structures.

Aviation

14. Transpower shall, on a monthly basis during the construction of the line, inform the New Zealand Agricultural Aviation Authority, the Civil Aviation Authority and Taupō Airport of the construction activities completed in the previous month, and intended to be undertaken in the following month including:

- a. Erection of specific towers (with locations and heights); and
- b. Stringing of conductor and earthwires between specified towers.

For the avoidance of doubt, the requirement in condition ~~22~~ 14 applies to each tower and conducting of each tower, not merely the commencement of tower erection or conducting.

15. Transpower shall consult with the Civil Aviation Authority of New Zealand (CAA) in order to eliminate the potential for any danger to aircraft (whether direct or indirect).

16. Should Transpower propose to erect any tower exceeding 60m in height it shall commission an aeronautical study from the CAA in respect of the application, if recommended to do so by CAA.

17. As soon as practicable following the completion of the line, Transpower shall provide as-built surveyed plans or maps showing the tower positions and heights to the Airways Corporation of New Zealand Limited (Airways AIM unit).

Traffic Management Plan (TMP) for road crossings and local roads

18. Transpower shall prepare a series of traffic management plans (TMPs) which cover all construction works that will potentially affect the roading network. The TMPs shall be prepared in accordance with New Zealand Transport Agency's Code of Practice for Temporary Traffic Management (COPTTM), after consultation with (as relevant):

- a. Taupō District Council (Road Controlling Authority);
- b. New Zealand Transport Agency (NZTA); and
- c. the following key stakeholders:
 - i. Emergency services (including police);
 - ii. Bus operators;
 - iii. Schools;
- d. Any additional key stakeholders identified by Taupō District Council, which may include but is not limited to landowners of directly adjacent properties subject to any road closures.

19. The TMPs prepared in accordance with condition 26 shall be submitted to the Council and New Zealand Transport Agency (where relevant) prior to the commencement of construction of the relevant road crossing works, or works affecting local roads. The TMPs be submitted in

stages, with each stage being submitted at least 5 working days prior to the commencement of the work the subject of that stage.

20. The TMPs shall recognise that the paramount purpose of roads is the free passage of the public and its vehicles.

21. The TMPs shall address and provide details of proposed road crossing works and general use of local roads by heavy vehicles and/or mitigation measures relating to the following matters:

- a. Details of the installation of any protection measures including, but not limited to, hurdles for subsequent line construction purposes;
- b. Details of any necessary temporary road closures, diversions, or deviations which are likely to be required during road crossing activities, including the likely date, time, and duration of such matters (any necessary temporary road closures should be affected during off-peak periods unless this is impracticable or would have adverse impacts on adjacent properties);
- c. Where diversions or deviations are required, information shall be provided by a suitably qualified and experienced traffic engineer of the traffic volumes and capacities of alternative routes, to ensure that such routes are both convenient and capable of safely accommodating any such diverted or deviated traffic;
- d. Details of the proposed signage to advise motorists, residents, stakeholders, and other road users of any road closures, diversions and delays, such signage to be sufficiently clear to be capable of ready understanding by the general public and installed at appropriate locations at least seven days in advance of such road closures, diversions and delays;
- e. Identification of any measures for the purposes of mitigating adverse traffic effects of construction traffic, including safety matters (such as speed restrictions and signage), relating to cyclists, pedestrians, disabled persons, and schoolchildren.

Construction entranceways off public roads

22. Prior to the commencement of construction, Transpower shall undertake a survey of the condition of the roads in the immediate vicinity of construction entranceways off public roads (consisting of a photographic survey).

23. Transpower shall repair any damage to entranceways and public roads in the vicinity of those entranceways resulting from impacts of its construction traffic, including where such locations are beyond the boundaries of the designation.

Operational Conditions

Operational noise

24. The operation of the transmission line shall not emanate a noise that exceeds a limit of 40 dBA Leq beyond the boundaries of the designation.

25. Sound levels shall be measured and assessed in accordance with NZS6801:1991 Measurement of Sound and NZS6802:1991 Assessment of Environmental Sound.

Maintenance work noise

26. All maintenance work shall be designed, managed and conducted to ensure that maintenance noise from the designated area does not exceed the limits in NZS6803:1999 Acoustics–Construction Noise at locations set out in section 6.2 of that standard.

27. The noise limits required by condition 26 shall not apply to emergency work required to re-establish continuity of supply, urgently required to prevent loss of life or other personal injury or commissioning works, but all practicable steps shall be undertaken to control noise and to avoid adverse noise effects particularly at times when the stricter noise limits apply (e.g. at night time).