The Emergency Response Plans – Flip Chart TP.HSW 01.30

This document details the Emergency Response Plans Flip Chart and its contents.

The Flip Chart has been purpose made to centralise as much info as possible that is required for use in the event of a Hazardous Substance type of emergency.

It contains layout diagrams, emergency contact lists, information on emergency response and first aid procedures for the Hazardous Substances that would be found at a Transpower site.

There should be an Emergency Response Plans Flip Chart on every Transpower site.

The following are the pages that should be inserted into the clear plastic sleeves in the flip chart. There are thirteen clear sleeves and there should be something in each one. Please note, sleeve 14 does not need printing.

Front Cover – as pictured at right Inside of Cover – Emergency Call – as pictured at right Sleeve 1. Emergency Contact List Sleeve 2. Hazardous Substances Site Layout Plan Sleeve 3. Fire Equipment Site Layout Plan Sleeve 4. First Aid – Patient Not Responding Sleeve 5. First Aid – Patient Responding Sleeve 6. Correct Use of Fire Extinguisher Sleeve 7. Transformer & Lubricating Oils Sleeve 8. Gasses – Flammable or Oxidising Sleeve 9. Gasses – Non-Flammable Sleeve 10. Solvents Sleeve 11. Corrosives Sleeve 12. Environmentally Sensitive Areas Sleeve 13. Safety Data Sheets Sleeve 14. Document Information (does not need to be printed)



EMERGENCY CALL	Incident occurs at location
Call EMERGENCY SERVICES then the PERSON IN CHARGE or	
	Call Emergency
(if the 'Person in Charge' is not on site) THE MOST SENIOR	Services
PERSON ON SITE. Give a brief description of:	
	Contact Person in Charge
What happened, when and where?	(Refer Emergency Contact List)
The number of injured persons?	Person in Charge contacts Approved Handler for location not already advised)
	+
• What kind of injuries have they received?	Person in Charge or Approved Handler for site laises with Emergency Services and NGOC. Emergency Services no allowed on site unsupervised.
Are there any site specific issues, e.g. public safety?	
	Incident Involving Hazardous Substances - Corrosives - Gases (Flammable/Non-Flammable
 Is there any risk to nearby neighbours or the 	- Solvents - Oils
	Contact Approved Handler for details. Refer appropriate response sheet in this flipchart and Material Safety Data Sh
environment, e.g. streams, rivers, stormwater system,	folder for additional assistance
etc?	
	Environmental issues
	 Refer "Environmentally Sensitive Areas" Consider need to contact Regional Council Palluti
	+
	Person in Charge advises all affected parties when the incident has been resolved

TP.HSW 01.30

Emergency Response Plans

Flipchart

Castle Hill Substation Site:

(CLH)

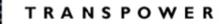
Document Number	TP.HSW 01.30
Issue Number	1.2
Publication Date	May 2025
Document Status	Approved

Inserts:

Emergency Call Emergency Contact List Fire Equipment Plan First Aid (not responding)

First Aid (responding) Correct Use of Fire Extinguisher Hazardous Substances Site Plan Transformers & Lubricating Oils Gasses: Flammable or Oxidising Gasses: Non-flammable

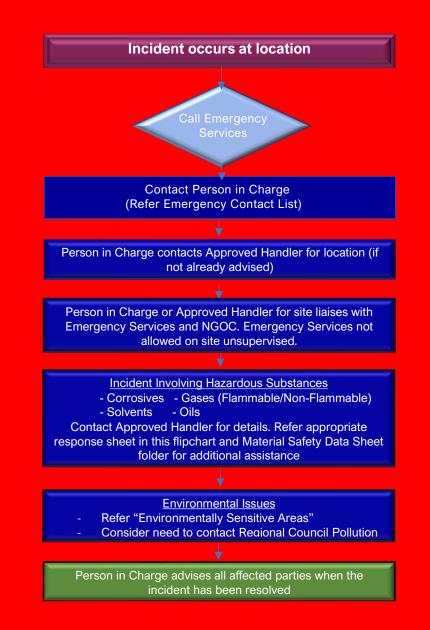
Solvents Corrosives **Environmentally Sensitive Areas** Safety Data Sheets Document Information (does not need to be printed)



EMERGENCY CALL

Call EMERGENCY SERVICES then the PERSON IN CHARGE or (if the 'Person in Charge' is not on site) THE MOST SENIOR PERSON ON SITE. Give a brief description of:

- What happened, when and where?
- The number of injured persons?
- What kind of injuries have they received?
- Are there any site specific issues, e.g. public safety?
- Is there any risk to nearby neighbours or the environment, e.g. streams, rivers, stormwater system, etc?



Emergency Contact List



Location Name: Castle Hill Substation

Phone Number: 03 318 8175

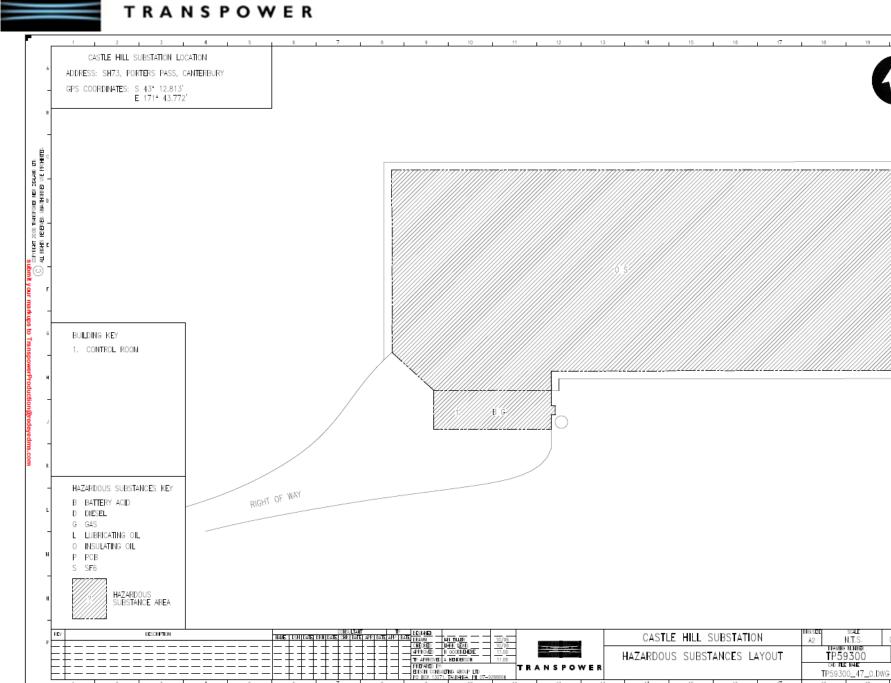
Street Address: 1km south from Cnr. Castlehill Drive and West Coast Road (SH 73)

GPS Location: S 43 º 12.813 ' E 171 º 43.772'

Rapid Number: <u>N/A</u>

Service	Contact Number
Any Site Emergency	National Grid Operating Centre (NGOC) - Auckland: 09 274 8736
	National Coordination Centre (NCC) - Wellington: 04 563 5087
	National Grid Operating Centre (NGOC) - Christchurch: 03 349 7043
Emergency Services (Fire/Ambulance/Police)	Phone Number: 111
Person in charge of this location (if applicable)	Name: James Brewer
This person has overall responsibility for site safety and HSNO compliance	Mobile Phone Number: 027 263 7941
Site Specific Issues	Regional Service Managers (RSMs):
	RSC1 and RSC2 (North-North Island) – Archana Devi: 09 589 2300, 021 482 254
	RSC3 and RSC4 (South-North Island) – Brendan Olsen: 06 357 0919, 021 424 712
	RSC5 and RSC6 (South Island) – Blair Upton: 03 365 6948, 021 390 614
All general queries	Phone: 0800 THE GRID (0800 843 4743)
National Poison Centre (Emergency Only)	Phone: 0800 764 766
Chemical Hotline (specialist chemical advice)	Phone: 0800 243 622
Regional Council Pollution Hotline	Phone: ECan - 0800 765 588
WorkSafe NZ	Phone: 0800 030 040
Immediate Neighbour Address: Orion Switch Yard	Neighbour or Landowner Liaison Phone: 03 363 9898 or 0800 363 9898
Immediate Neighbour Address: Castle Hill Station	Neighbour or Landowner Liaison Phone: Anne Hann 021 262 8360 (Manager &
	owners daughter)
Immediate Neighbour Address:	Neighbour or Landowner Liaison Phone:

Hazardous Substances Site Plan



Sleeve Two – Hazardous Substances Site Plan

Updated: May 2025

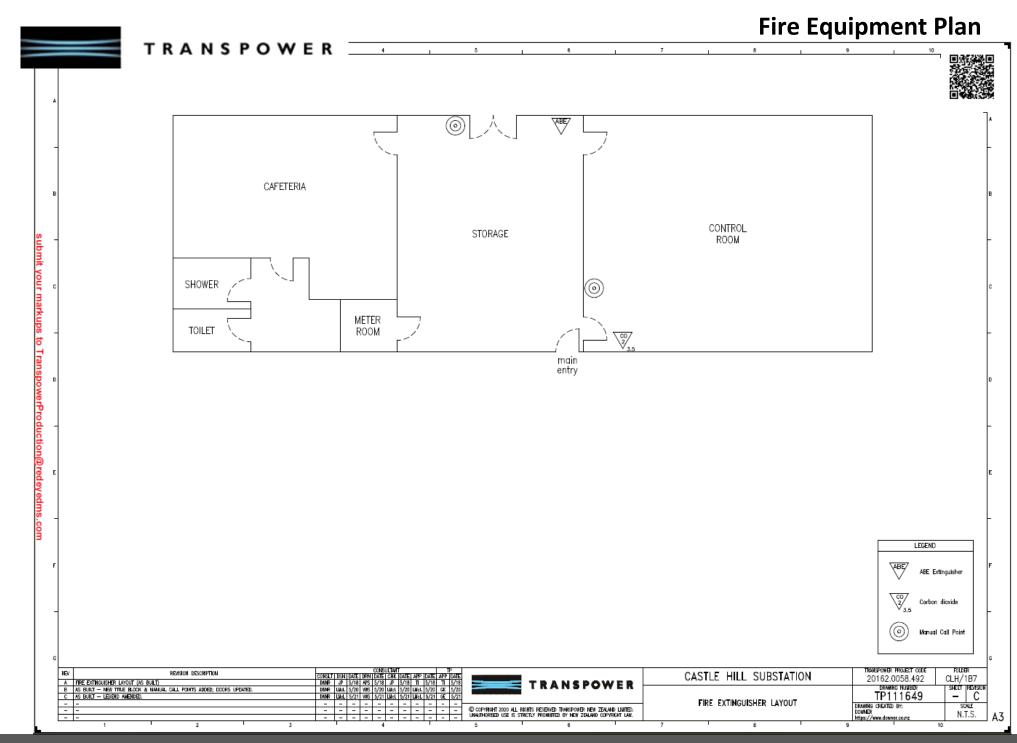
14

SCALE N.T.S.

FOLDER

C16/1B12

sheet newsour 47 -



Sleeve Three – Fire Equipment Plan

Updated: May 2025

First Aid – Patient Not Responding

TRANSPOWER

First aid is as easy as ABCD – airway, breathing, CPR (cardiopulmonary resuscitation) and defibrillation. In any relevant situation, apply the DRSABCD Action Plan.

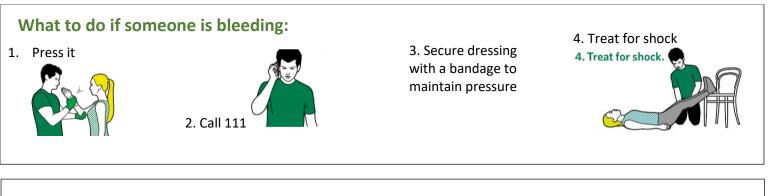
The information below is also available on the free St John App, available on IOS, Android and Google.

Adult CPR

1.	Danger	Ensure yourself and others are safe.
2.	Response	Check for response: "Can you hear me?" If possible, move the patient to a stable, flat surface such as the floor.
3.	Send for help	Call 111 and ask for an ambulance.
4.	Airway	Move the head into a neutral position and lift the chin.
5.	Breathing	Look for normal breathing.
6.	CPR	Place hands in the centre of the chest. Push down hard 30 times and then give 2 breaths. Continue cycles of 30 compressions and 2 breaths.
7.	Defibrillation	Follow the instructions on your AED.







What to do if someone is in shock:

1. Lie them down Their legs should be raised & supported

- 2. Call 111 for emergency help
- 3. Loosen any tight clothing
- 4. Keep them comfortable and warm
- 5. Monitor their level of response, if they become unresponsive prepare to give CPR



Correct Use of Fire Extinguisher

PULL CONTRACTOR OF SQUEEZE

- 1. Pull the pin at the top to break the tamper seal.
- 2. Aim the extinguisher low, pointing the nozzle at the base of the fire. Do not aim at the flames themselves.
- 3. Squeeze the handle to release the extinguishing agent.

1. Identify a clear exit/escape route

Before operating the fire extinguisher, make sure you have a clear evacuation path. If you cannot put out the fire, you'll need to make a safe exit. Consider this when determining where to store your fire extinguisher, and make sure you'll have multiple exit options nearby after you retrieve it.

2. Stand back

Face the fire and keep your back to the clear exit you earlier identified. You should stay between six and eight feet away from the flames as you prepare to operate the fire extinguisher.

3. Discharge extinguisher

It can be difficult to think clearly during an emergency, so fire safety has a long-standing acronym to help you recall the steps involved in operating your fire extinguisher.

When extinguishing a fire, you should **PASS**: **P: Pull** the pin on the fire extinguisher.

A: Aim the extinguisher nozzle on the hose low, toward the base of the fire.

S: Squeeze the handle or lever to discharge the extinguisher.

S: Sweep the nozzle back and forth. Keep the fire extinguisher aimed at the base of the fire and move it from side to side until the flames are extinguished.

- Put used extinguishers away until they have been refilled
- Call to arrange replacement/refill of used extinguishers

INTERNAL

/FFP



Hazards	Comment	Precautions	Comment
CONTACT DERMATITIS	Frequent skin contact removes natural protective fats from the skin. Dermatitis and other skin problems can result.	<u>*</u> *	Wear protective gloves, barrier creams, and safety boots when necessary. Wash or discard oil-soaked boots and clothing. Keep oily rags out of pockets.
	Inhaled oil mist can damage lungs		Use a filter mask in oil mist conditions.
	Oil spills can seep into waterways and cause long term pollution.	٨_	Soak up oil spills with diatomaceous earth or other absorbent. Dispose of oily waste using an approved disposal company or depot. Never pour oil down drains or sewers.
K	Oil is extremely slippery on floors, ladders, handrails, steps, and catwalks.	2	Keep oily gloves and boots off ladders, handrails, steps, and catwalks.
	Oil spills, oily rags and oily clothing when heated are combustible.	1	Fight oil fires with CO ₂ or dry powder fire extinguishers. In confined spaces, fire fighters must wear self-contained breathing apparatus.



Gases Flammable or Oxidising (e.g., Acetylene, Oxygen)

Hazards	Comment	Precautions	Comment
	Acetylene (C2H2), LPG (Propane) Highly flammable gas producing acrid smoke and irritating fumes. Product will add fuel to a fire.		In the event of a gas leak, eliminate all sources of ignition e.g., naked flames, cell phones electrical equipment etc. At the onset of dizziness or eye, nose, and throat
S	In event of a cylinder catching fire, keep the cylinder (and those in the immediate area) cool by applying water from a protected location. If safe to do so, stop gas flow by closing cylinder valve. If gas valve cannot be		irritation, IMMEDIATELY vacate the area and move to an area where there is fresh air. Warn others of the danger of low oxygen and alert site management.
	turned off, DO NOT extinguish the flame, since re- ignition or explosion could occur.		Do not rush into an enclosed space to help a collapsed workmate. Call for help first. If the oxygen level is below 19%, organise breathing equipment, lifeline, and standby helpers before entering.
ACETYLENE	Acetylene is an asphyxiant gas which may displace the air.	E	Before re-entering the work area use an explosimeter or gas detector to confirm that the atmosphere is safe. DO NOT enter a space where the oxygen level is below 19% (potential asphyxiation) or above 21% (higher risk of
OXYGEN NO SMOKING OR OPEN FLAMES	Oxygen (O2) While being a non-toxic, non-flammable gas, it is a very strong oxidising agent. Oil/grease can spontaneously ignite at low temperatures in an oxygen enriched environment. Materials that would not burn in air will burn vigorously in pure oxygen.	A CONTRACT	fire).
	Gases – General Rapidly expanding gases cool the surrounding area, which could result in severe cold burns.		Wear thick, insulating gloves and eye protection when handling pipework or containers holding compressed gases.
	Full gas cylinders store products at high pressure. Poor storage or handling of cylinders can result in cylinder rupture or the catastrophic release of product.		Cylinders should be secured in an upright position and away from heat sources. Cylinders that are not in use should have their protective caps in place.
	Do not store near ignition sources, heat sources, oxidising agents, or flammable solvents. Store in well ventilated area.		





TRANSPOWER

Hazards	Comment	Precautions	Comment
WARNING CO2 STORAGE AREA CARE MUST BE TAKEN TO AVOID SUFFOCATION & ASPHYXIATION	Nitrogen (N2) and Carbon Dioxide (CO2) Both gases are colourless and odourless. They can displace air and accumulate in poorly ventilated enclosed places. Inhalation of concentrated nitrogen or carbon dioxide causes immediate unconsciousness, followed by death. Gas cylinders, pipes and valves that contain nitrogen or carbon dioxide can rapidly become extremely cold, which can result in severe cold burns.		At the onset of dizziness or eye, nose, and throat irritation, IMMEDIATELY vacate the area and move to an area where there is fresh air. Warn others of the danger of low oxygen and alert site management.
WARNING THIS EQUIPMENT CONTAINS (SF6) SULPHUR-HEXAFLUORIDE GAS	 Sulphur Hexafluoride (SF6) Sulphur hexafluoride is used chiefly as an insulating medium for a wide range of high voltage electrical and electronic equipment. As a gas it is significantly heavier than air and will accumulate in low lying areas of poorly ventilated enclosed places. Gas cylinders, pipes and valves that contain SF6 can rapidly become extremely cold, which can result in severe cold burns. 		 Before re-entering the work area use an explosimeter or gas detector to confirm that the atmosphere is safe. DO NOT enter a space where the oxygen level is below 19%. Do not rush into an enclosed space to help a collapsed workmate. Call for help first. If the oxygen level is below 19%, organise breathing equipment, lifeline, and standby helpers before entering.
	Gases – General Rapidly expanding gases cool the surrounding area, which could result in severe cold burns.		If trained and qualified to work with pipework, ear thick, insulating gloves and eye protection when handling pipework or containers holding compressed gases.
	Full gas cylinders store products at high pressure. Poor storage or handling of cylinders can result in cylinder rupture or the catastrophic release of product.		Cylinders should be secured in an upright position and away from heat sources. Cylinders that are not in use should have their protective caps in place.



TRANSPOWER

Hazards	Comment	Precautions	Comment
	Frequent skin contact removes natural protective fats from the skin. Dermatitis and other skin problems can result.		Wear protective gloves, barrier creams, and safety boots when necessary. Wash or discard boots and clothing contaminated with solvent. Keep solvent contaminated rags out of pockets.
	Inhaled solvent mist and vapours can damage the lungs and lead to poisoning, unconsciousness, and death.		Use a filter mask in solvent vapour conditions. Stand upwind when handling solvents.
	Spillages can seep into waterways and cause long term pollution. Spillages can also spread the risk of fire.		Soak up spills with diatomaceous earth or other absorbent. Stand upwind when handling solvents. Dispose of waste using an approved disposal company or depot. Store waste materials away from ignition sources. Never pour solvents down drains or sewers.
	Some solvents are poisonous if swallowed, inhaled, or absorbed through the skin. Eye contact can be extremely painful (refer First Aid – Responding: Chemical in Eye).	ANTI ALUS OPECAN PRECO ANTI ALUS ANA	Wear the appropriate personal protective equipment (gloves, barrier cream, boots, and apron where necessary). Use a filter mask rated for solvents to prevent inhalation of product mist or vapour. Do not eat food in areas containing solvents and always wash your hands after handling solvents.
FUEL	Some solvents are highly flammable and can ignite explosively when mixed with air.		Store solvents away from any other chemicals (particularly oxidising agents). Fight solvent fires with CO2 or dry powder fire extinguishers. In confined spaces, fire fighters must wear self-contained breathing apparatus.





TRANSPOWER

Corrosive chemicals (acid and alkalis) are poisonous if swallowed or inhaled. Contact burns the skin, eyes, and clothing.		Wear protective gloves, boots, and a full facemask when handling corrosives. Use appropriate filter mask to avoid breathing fumes and chemical dust. Use breathing equipment if poisonous gas is present.
Heated containers of corrosive liquids can become pressurized and burst, spraying the contents.		Keep containers of corrosives out of the sun and away from hot machinery and pipe work.
Corrosives spills can release hazardous fumes and when mixed with products or with other chemicals can cause fires or contact with metals may release flammable gases that could result in an explosion or produce poisonous gases.	Vind direction	Wear full personal protective equipment when responding to spill. Stop flow of material and contain/absorb small spills with dry sand, earth or approved absorbent material – avoid product contact with metals and combustible materials. Always stand up-wind of the spill & open doors & windows. Do not disperse spill with water (unless instructed by Emergency Services). In the event of a fire, move containers from the immediate area if you can do so without risk. Do not store or transport corrosive chemicals with
Corrosive chemicals can react violently when water is	Always Add Acid	incompatible products or materials. If in doubt, contact the Transpower Health, Safety and Wellbeing team. Add corrosive chemicals to water slowly, whilst stirring.
added.	Acid to Water	Do not pour water directly into corrosive chemicals. Never use hot water. Ensure container can withstand the heat of reaction and will not collapse.
		Check that container caps are screwed on tight before lifting and carrying. Unscrew caps slowly, keeping your face away from the opening to release the internal pressure.

Environmentally Sensitive Areas

TRANSPOWER

List any of the following: include name, approximate distance from the site and direction. Include areas within a 500-metre radius of the site.

River, stream, underground well, stormwater drain, channel, reservoir, underpass, tunnel, underground railway line, other underground facility, railway, school, public buildings, residential zone etc., in near vicinity.

e.g., Primary School, 500 metres North

Spill Containment Techniques

Many sites are equipped with 'Oil Separators'. In the event of a spill, ensure that (where fitted) the outlet valve for the separator is closed. To be effective, these separators must be regularly maintained and after a spill, emptied and cleaned by an approved waste disposal company.

In cases where there is no site oil separator or a spill is moving towards a sewer or stormwater, the following are some examples of containment methods that may be used in case of an emergency. Use absorbent materials (sawdust, straw, diatomaceous earth) to soak up the spill.





Do not let any oils or solvents enter the sewer / stormwater system. Use any available material to construct a barrier.

Try to prevent untrained fire department personnel from flushing product spills into adjacent sewers or stormwater. Explain the dangers of this action

<u>Waterways</u>





Remember that oils & solvents (hydrocarbons) float on water, so a board can be used for product containment while letting clear water pass underneath



All Safety Data Sheets (SDS's) are available in the Site Information Folder, located by the sign in area.

The most recent versions of SDS's can be accessed electronically from the 'secure area' on Transpower's Internet Site (<u>www.transpower.co.nz</u>). They are stored on the Hazardous Materials and Substances page.

In the event of an emergency, Safety Data information can also be obtained from the National Poisons Centre or phone: 0800 POISON (0800 764 766)



1. Document Information

Document Number	TP.HSW 01.30
Issue Number	1.1
Publication Date	May 2025
Document Status	Approved

1.1 Summary of Changes

Document History			
Issue No.	Affected Section	Change	Date
1	Whole document	Publication of document	January 2023
1.1	Emergency Contact sheet & footers	Regional Services Manager details updated for RSC1 and RSC2 (Auckland, Waikato and Bay of Plenty) and names of each section added to the footer of each page	May 2025
1.2		Minor changes due to Service Provider feedback.	May 2025

1.2 Document Contact

This document is the responsibility of Transpower New Zealand Limited, Wellington. If you have any queries please contact <u>controlled_docs@transpower.co.nz</u>.

1.3 Use of this Transpower Controlled Document

- a. The information in this document belongs to Transpower and may only be used by Transpower, and parties contracted by Transpower to undertake work on or in respect of Transpower's assets, for the purpose described on page 1.
- b. Engineering consultants/Service providers contracted by Transpower which use/rely on the information in this document must apply good engineering practice and their own professional judgement while undertaking any works contemplated by or relevant to the use of such information.
- c. All information in this document is confidential and users must take reasonable precautions against unauthorised use or disclosure of such information.

1.4 Document Feedback

If you would like to submit any feedback or suggestions to Transpower to improve this document, use one of the following options:

- Email <u>controlled_docs@transpower.co.nz</u>
- From the Contractors / Consultants section on the Transpower website, www.transpower.co.nz, use the online Controlled Document Feedback Form



• From within Transpower, use the <u>Controlled Documents Feedback Register Form</u>.

