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PacificBlue

Electric Line Clearance Management Plan 2023-2024

AU-1000-OPS-PLN-00005

28 March 2023

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Document Owner	Yuriy Odarenko	**Controlled Document (Y or N)**	Y
Document Approver	Cesar Salvatierra		

Contents

1. Purpose

The purpose of this plan is to prepare and comply with the requirements to the *Electricity Safety (Electric Line Clearance) Regulation 2020.* This plan sets out the vision and actions in order to meet this regulation and is to be reviewed annually and submitted to the ESV prior to the 31st of March each year.

2. Definitions

For the purposes of this document, the following terms and definitions apply:

Term	Definition/Abbreviations
Blue Book	The code of practice on Electrical safety for work on or near high voltage electrical apparatus
Code of Practice	Refers to Schedule 1 of the Electricity Safety (Electric Line Clearance) Regulations
Hazard Tree	Any tree or part of the associated tree the is likely to come into contact with an at risk electric line due to its assessed condition
Operations and Maintenance provider	Contractor to which the scope of the contract is to operate and maintain the Pacific Hydro Australia at risk assets in this plan
Suitably Qualified Arborist	Means a arborist how has As a minimum, the qualification of National Certificate III in Arboriculture including the "Perform a ground based-based tree defect evaluation" unit of the competency, or an equivalent qualification; and At least 3 years of field experience in assessing trees
Qualified Person	A person who holds a current certificate that is approved by Energy Safe Victoria specificizing satisfactory completion of a training course in tree clearing
Sag	In relation to a conductor, means the vertical displacement of the conductor below the point at which the conductor is attached to the supporting structure and includes any additional displacement caused by hot weather or high load current
Sway	In relation to a conductor, means the horizontal displacement of the conductor caused by wind
Unsafe situation	Where the risk level of an identified hazard tree is as defined by it's likelihood and consequence as extreme in value according to the Pacific Hydro risk management framework or vegetation that could regrowth or be within the minimum clearance space.

3. Document approval

Name / Originator	Title	Description	Date	Signature
Yuriy Odarenko	Senior Operations Engineer	Author	28/03/23	
Adrian Ciccocioppo	Production Manager	Reviewer	Adrian Ciccocioppo	Digitally signed by Adrian Ciccocioppo DN: cn=Adrian Ciccocioppo, ou=Remote Sites, email=aciccocioppo@pacifichydro.com.au Date: 2023.03.29 13:41:48 +11'00'
Cesar Salvatierra	Executive Manager Operations	Authoriser	Cesar Salvatierra	Digitally signed by Cesar Salvatierra DN: cn=Cesar Salvatierra, ou=Melbourne, email=csalvatierra@pacifichydro.com.au Date: 2023.03.30 09:39:47 +11'00'

4. Applicable Sites/Maintenance Zones

4.1 Portland Wind Farm

The overhead electric lines under the ownership and/or responsibility in the case of some shared/leased lines of Pacific Hydro at the Portland Wind Farm are between the P3C substation at the Alcoa Portland Aluminium Switchyard and the Cape Bridgewater, Cape Nelson North and Cape Nelson South substations at an approximate length of 45km (some single and some double circuit).

Other electric lines associated with the Cape Bridgewater, Cape Nelson South, Cape Nelson North and Cape Sir William Grant Wind Farms have been installed underground between the Wind Turbines and substations and therefore do not require vegetation management processes to establish or maintain the minimum clearance space around these electric lines.

The substations at the Portland Wind Farm (Cape Bridgewater, Cape Nelson South, Cape Nelson North, Cape Sir William Grant and P3C) have been established within a vegetation-free compound that is not accessible to the public. The establishment of hard standing areas adjacent to or surrounding the substations has restricted the vegetation surrounding the substations. Where a hard standing area does not completely surround the substation enclosure the only vegetation that will be grown is being restricted to ground cover type plants (grasses).

The Wind Farm turbine locations have limited vegetation, other than ground cover (grasses) and small bushes, as trees and tall structures can reduce the performance of the wind turbines. The overhead lines are located on both road reserve and private lands. The vegetation along the overhead line is a mix of trees, shrubs and low-lying grass.

4.2 Challicum Hills Wind Farm

The overhead electric lines under the ownership of Pacific Hydro are located between the Buangor (BGR) switching station and the Challicum Hills substation are a single pole (double circuit) line 5 km in length requires vegetation management processes to maintain the minimum clearance space around them.

The majority of electric lines owned of Pacific Hydro Limited at the Challicum Hills Wind Farm have been installed underground between the Wind Turbines and the Challicum Hills substation and therefore vegetation management processes to establish or maintain the minimum clearance space around these electric lines are not required.

Additional site assets including switchyards/substations under the ownership of Pacific Hydro Limited at the Challicum Hills Wind Farm which have been established within a vegetation-free compound that is not accessible to the public.

The establishment of hard standing areas adjacent to or surrounding the substations has restricted the vegetation surrounding the substations. Where a hard standing area does not completely surround the substation enclosure the only vegetation that will be grown is being restricted to ground cover type plants (grasses).

The Wind Farm turbine locations have limited vegetation as trees and tall structures can reduce the performance of the wind generators. The 5km's of overhead line passes through private land, leased by Pacific Hydro, predominantly used for low density grazing and consisting of ground cover (grasses) and small bushes. There are also areas directly adjacent to the line used for cropping.

4.3 Crowlands Wind Farm

The overhead electric lines under the ownership of Pacific Hydro are located immediately to the north of the 220kV Crowlands terminal station (Pole# 1 & 22) and branch to the North (pole#2 – pole#21) and East (pole# 23 – pole#43). They consist of single pole, single and double circuit line with a combined approximately length of 15 km in length and require vegetation management processes to maintain the minimum clearance space around them.

The majority of electric lines owned by Pacific Hydro Limited at the Crowlands Wind Farm have been installed underground between the Wind Turbines and therefore vegetation management processes to establish or maintain the minimum clearance space around these electric lines are not required.

Additional site assets including the Crowlands substation are under the ownership of Pacific Hydro Limited and have been established within a vegetation-free compound that is not accessible to the public. The establishment of hard standing areas adjacent to or surrounding the substation has restricted the vegetation surrounding the substation. Where a hard standing area does not completely surround the substation enclosure the only vegetation that will be grown is being restricted to ground cover type plants (grasses).

The Wind Farm turbine locations have limited vegetation as trees and tall structures can reduce performance. The 15km's of overhead line passes through private land, leased by Pacific Hydro, predominantly used for low density grazing and consisting of a combination of ground cover (grasses) and various maturity tree species including Indigenous Eucaluptus (Red Stringybark, Yellow Box, River Red-gum and Blue Gum etc). There are also areas directly adjacent to the line used for cropping.

5. Electricity Safety (Electric Line Clearance) Regulations 2020

5.1 Part 2 – Prescribed Code of Practice and related provisions

5.2 9(2) Preparation of management plan – Before 31 March in each year

This plan will be prepared before the 31st of March each year. This is ensured through the use of a task management system known as Maintainly.

5.3 9(4) a responsible person must ensure that a management plan specifies the following-

(a) The responsible person under section 84 of the Electricity Safety Act 1998

for the maintenance of a private electric line or for the keeping of the whole or any part of a tree clear of an electric line within the area under the control of Energy Pacific (Vic) Pty Ltd is:

Mr. Cesar Salvatierra

Executive Manager, Operations

Energy Pacific (Vic) Pty Ltd

ABN 18 063 543 984

Level 13, 700 Collins Street

Docklands, Victoria, 3008

Phone: (03) 8621 6000

(b) The person responsible for the preparation of this plan is:

Mr. Yuriy Odarenko

Senior Operations Engineer

Pacific Hydro Pty Ltd

ABN 31 057 279 508

Level 13, 700 Collins Street

Docklands, Victoria, 3008

Phone: (03) 8621 6000

(c) The person responsible for carrying out the plan (Portland, Challicum Hills and Crowlands Wind Farm) is:

Mr. Shaun Harrison

Wind Fleet Contract Manager

Pacific Hydro Pty Ltd

ABN 31 057 279 508

Level 13, 700 Collins Street

Docklands, Victoria, 3008

Phone: (03) 8621 6000

Mobile: 0400 535 152

(d) In case of an emergency contact should be made with:

Mr. Adrian Ciccocioppo

Production Manager

Pacific Hydro Pty Ltd

ABN 31 057 279 508

Level 13, 700 Collins Street

Docklands, Victoria, 3008

Phone: (03) 8621 6000

Mobile: 0438 093 517, or

Powercor Control Room 1800 061 204

(e) The objectives of the plan

Are to ensure:

(a) compliance with the Regulation and Code of Practice,

(b) electrical safety,

(c) public/community/worker and other stakeholder safety and satisfaction,

(d) vegetation is kept clear of the electric lines, and to minimise:

(e) the risk of electric lines from starting fires and causing electrocution,

(f) the risk to the safe 'normal' operation of electric lines, and

(g) the effect of works associated with management of the electric lines hence protecting and maximizing the environment and amenity associated with the surrounding vegetation either as listed under section (h) or otherwise.

(f) Applicable Land

The drawings in appendices (A, B, C, D, E, F and G) of this plan show the area assigned as a 'hazardous bushfire risk area' (HBRA) by the CFA under section 80 of the Electricity Safety Act (reviewed annual prior to preparation of this plan) for which the at-risk assets under the responsibility of Pacific Hydro Limited are located.

Communication with the CFA to review the above at-risk asset assignments via access to the CFA's GIS database can be made through a request via the following email address:

fire-hzd-ratings@cfa.vic.gov.au

This is done by the person responsible for preparing this plan annually prior to preparation of this plan. Further information can be obtained via the CFA website:
http://www.cfa.vic.gov.au/plan-prepare/electric-line-vegetation-clearance/

The file received (.ESRI) can be overlaid across the state of Victoria using Google Earth.

(h) Areas Containing Indigenous or Significant Trees

Based on each of the sites developmental and planning scheme-based investigations/assessments/studies/plans some/all of the below vegetation, depending on the site in question, was able to be located in the vicinity of the electric lines identified in section (f) above. In-line with the approved planning scheme requirements and associated lease agreement requirements all vegetation was managed at the time of construction to allow for the electric lines. It is noted that regrowth may occur in those same areas which may require cutting or removal during the life span of the lines determined to be:

(i) indigenous to Victoria, defined as plants like trees, shrubs, herbs and grasses that would have grown naturally in Victoria before European arrival.", or

(ii) listed in a planning scheme to be of ecological, historical or aesthetic significance/value, or

(iii) of cultural or environmental significance,

(iv) a habitat of 'vulnerable', 'endangered' or 'critically endangered' Invertebrate/Vertebrate species with a conservation status within Victoria, or

(v) a hazard tree (as defined under Section 2 of this plan),

This information is currently accessible through Pacific Hydro's Geographical Information System (GIS) and information including maps can be made available through the Operation and Maintenance provider for that site,

The most current location of any of the regrowth and any subsequent recommended cutting/removal scope/timings in relation to that vegetation can be obtained through the

latest annual line vegetation inspection report/s (example in Appendix N). These reports are attached to the associated CMMS task once they are received and hence stored and accessible for future reference and auditing requirements.

(i) Identifying Indigenous or Significant Trees

Any determinations in section (h) have been made with, but are not limited to, the reference/use of:

a. the latest Advisory List of Rare and Threatened Plants in Victoria, https://www.environment.vic.gov.au/conserving-threatened-species/threatened-list
b. the Heritage Registry, http://vhd.heritagecouncil.vic.gov.au
c. the Victorian Aboriginal Heritage Registry, https://www.aboriginalvictoria.vic.gov.au/aboriginal-cultural-heritage-register-information-system-access
d. the latest Advisory List of Threatened Invertebrate/Vertebrate Fauna in Victoria, https://www.environment.vic.gov.au/conserving-threatened-species/threatened-list
e. section 10 of the Flora and Fauna Guarantee Act 1988, https://www.legislation.vic.gov.au/in-force/acts/flora-and-fauna-guarantee-act-1988/047
f. advise outlawed in Vicplan online interactive map
g. the Council, or
h. the knowledge/assessment of a 'suitably qualified arborist a person as defined by(p).'
i. advice from the Operation and Maintenance Provider for that site

The above references/links are reviewed annually at the time of preparation of this plan. Prior to the assessment taking place, the assessor for the clearance works must review the above a liaise with the Operations and Maintenance Provider to be updated on the status of Indigenous or significant trees.

(j) Management Procedures Adopted for Compliance

Compliance with the Code is currently ensured by adopting the following methods, processes and management procedures. This includes, but is not limited to:

i. Annual line vegetation inspections of the overhead 33kV, 66kV and optical fibre cables are performed. This is scheduled through the Computerised Maintenance Management System (CMMS) for October/November for each of the Sites/Maintenance Zones (as measured against under section N). Any cutting or removal work is scheduled prior the Declaration of the Fire Danger Period (DFDP), so that vegetation is kept outside the minimum clearance space of the overhead lines as audited under section **(o)** of this plan. If the pruning for priority or the calendar and subsequent year cannot be completed by this date and the risk is not an unsafe situation or high, then succeeding vegetation inspections shall be carried out weekly to determine growth rate and further action. This may include actions such as de-energisation if deemed an unsafe situation.

   These inspections and associated works are supported by the specialised services provider to plan within their systems and identify when/where cutting or removal of vegetation will be required,
ii. The applicable Code Clearance Graphs, formulas and figures (Appendix H) that identify the minimum clearance applicable distance (including additional distance for cable sag and sway). This is so both Pacific Hydro and the specialised service provider can determine at any time during, or between, scheduled inspection works

the requirement for, and subsequent dimensions/distance of, the minimum clearance space required by the Code.

These procedures are further supported by ensuring:

a. the Operations and Maintenance Agreements remain in place with the current specialised service provider, or
b. engagement with another suitably qualified/competent specialised service provider who can maintain compliance with the Regulations and Code is established.

Cutting and removal methods will be in line with the guidelines to the Electricity Safety (Electric Line Clearance) Regulations 2020 including but not limited to, AS4373 Pruning of Amenity Trees (refer to section (k) below for further details).

The appropriate period between tree cutting and/or removal is dependent on reviewing the results of the annual line vegetation inspection reports and their individual tree species/variety and current/future site conditions expected. The likelihood and associated priority of any vegetation with the potential to make contact with the line as well as any other recommendations will be included in the annual line vegetation report (example in Appendix N.) provided to Pacific Hydro following the annual line vegetation inspection. The intention of pruning to the vegetation is to allow for 3 years of growth for a particular species to remain outside of the minimum clearance space as defined by the code.

Prioritisation of any cutting/removal works is done in-line with the annual line vegetation inspection report (example in Appendix N and Figures 1 & 2 below).

Code	Description	Action
Priority 1	Foliage in contact, deviating or abrading the Conductor; requiring urgent or hazard cutting	Immediate action required or as soon as reasonably practical. Depending on risk, conductor may be deenergised
Priority 2	Foliage currently inside the minimum clearance space	Immediate action required or as soon as reasonably practical
Year Code (e.g. 2021, 2022, 2023 and 2024)	Foliage predicted to grow into minimum clearance space of the yearly code denoted	Action required prior to the DFDP of the assessed year
VS	Vegetated Span in which the foliage predicted to grow into minimum clearance space within 3 to 5 years' time	No immediate action required
NVS	Non- vegetated span with no potential for any vegetation to enter into the minimum clearance space due to flora growth	No immediate action required
OF	Foliage contacting or within 30mm of an optical fibre	To be cleared at the approval of PHA

Figure 1 Vegetation Inspection Code Guideline

'Urgent' or 'Hazard' cutting or removal work may be identified and reported internal via email, safety observation or externally via the enquires line (1800 010 648) or email address (enquires@pacifichydro.com.au) to Pacific Hydro outside of the annual line vegetation inspections by several potential stakeholders:

— Pacific Hydro representatives (employees, contractors, sub-contractors, etc.),

- Network Operators (Powercor Australia Ltd)
- Leased Landowners, and/or
- Councils.

In this case Pacific Hydro would contact a specialised service provider to co-ordinate a response in the form of further inspection/assessment or clearance works.

Following any vegetation cutting or removal, Pacific Hydro will engage an independent auditor or an internally staff member to audit the works against the minimum clearance guidelines and this plan.

(k) AS 4373 Compliance Alternatives

Compliance to AS 4373 for any tree cutting is largely ensured through the use of suitably qualified arborist/s that is familiar with AS 4373 and use of appropriate plant and equipment. Selection of most appropriate plant and equipment can also be assisted through review of the line vegetation inspection report conducted prior to works.

If it is not practicable, as defined as:

an action that is, or was, reasonably capable of being done with the available means taking into account and weighing up all relevant matters including:

i) the likelihood of the hazard or the risk concerned occurring; and ii) the degree of harm that might result from the hazard of the risk; and iii) what the person concerned knows, or ought reasonably to know, about the hazard or risk, and about the ways of eliminating or minimising the risk; and iv) the availability and suitability of ways to eliminate or minimise the risk; and

v) after assessing the extent of the risk and the available ways of eliminating or minimising the risk, the cost associated with available ways of eliminating or minimising the risk, including whether the cost is grossly disproportionate to the risk,

to comply with the requirements of the current version of AS 4373 then Pacific Hydro will consult with the specialised service provider and other impacted stakeholders to agree on an alternative methodology (e.g., plant or asset relocation, postponement, exemption application).

Pacific Hydro personnel involved with this plan utilise internal procedures within the Health, Safety and Environment (HSE) Department to ensure the definition of 'as far as practicable' (or 'where reasonably practicable') is well understood in the context of this plan.

Reference and utilisation of the most current version of AS 4373 is ensured via Pacific Hydro's SAI Global membership and a cross check of SAI Global website as part of the annual preparation of this plan.

Any alternatives to AS4373 practices shall be put through the Pacific Hydro change management system where the non-financial delegation of authority will review and endorse if the alternative is reasonably practical.

(l) Alternative Compliance Mechanism

Not Applicable

(m) Details of Alternative Compliance Mechanism Approval

Not Applicable

(n) Plan Performance Measures

Similar to the Bushfire Mitigation Plan the performance of this plan and by association the achievement of the specific objectives of plan is largely measured through the closure of maintenance work orders in the Computerised Maintenance Management System (CMMS) related to bushfire mitigation and line vegetation works.

This measure is called the Bushfire Index and is calculated as follows:

Bushfire Index = ÷

Works include all line vegetation inspection/clearance works, both scheduled and unscheduled.

The **'outstanding works'** from the previous period include:

PORTLAND WIND FARM

- There were no outstanding/overdue works for this site

CHALLICUM HILLS WIND FARM

- There were no outstanding/overdue works for this site

CROWLANDS WIND FARM

- There were no outstanding/overdue works for this site

The **'works required'** for the upcoming period include:

PORTLAND WIND FARM

- Powerline Bushfire Vegetation Inspection/Clearance (Scheduled, annually due in the CMMS in October)
- Audit of Bushfire vegetation line inspection/clearance

CHALLICUM HILLS WIND FARM

- Powerline Bushfire Vegetation Inspection/Clearance (Scheduled, annually due in the CMMS in October)
- Audit of Bush fire vegetation line inspection/clearance

CROWLANDS WIND FARM

- Powerline Bushfire Vegetation Inspection/Clearance (Scheduled, annually due in the CMMS in October)
- Audit of Bush fire vegetation line inspection/clearance Therefore:

Bushfire Index = 0 ÷ 6 = 0

Note that the performance/progress of all site maintenance tasks, including the above where applicable, is monitored and reported on monthly by the Australian Operations Department.

Other performance measures, are reviewed annually at the time of preparation of this plan, include:

Key Performance Indicator (KPI) (previous year)	Target	Result

Number of electrical events/faults that have occurred on the relevant overhead assets with the cause identified to be directly related to the Electric Line asset condition and/or compliance with the Regulations.	0	0
Annual Number of Fire Starts.	0	0
Number of Stakeholder complaints/correspondence received in relation to the relevant overhead assets as measured through Pacific Hydro's Communication and External Affairs department and the associated enquires line (1800 010 648) and email address (enquires@pacifichydro.com.au).	0	0
Number of Urgent or cutting/removal works required.	0	0
Lost Time Injuries (LTI's) or Medical Treatment Injuries (MTI's) with the cause identified to be directly related to the Electric Line assets.	0	0
Future ELCMP prepared by 31st March each year	0	0
Financial Penalties (Penalty Units) received.	0	0

Poor or Inadequate performance against any of these measures will be reported to the person responsible for this plan under 9(4)(a) and also to the electric line specialised service provider for further contractor performance review and discussion if necessary.

Continual improvement of this plan and its performance against the Code is largely made through review and adjustment to the above measures annually as well as incorporation of any findings identified from annual audits conducted under section (o).

(o) Code Compliance Audit Processes

Auditing of this plan and performance against the Code is done through the following processes:

- The annual review and preparation of this plan is performed by the person responsible for preparing the plan in conjunction with the other people listed under sections (a-d). Identification of any deficiencies in the plan or the plan's implementation or ongoing performance, including that of the associated contractors, or subcontractors is done via:
- Pacific Hydro person/s carrying out this plan to provide feedback to their manager and/or the Pacific Hydro person responsible for preparation of the plan when a deficiency is found. This will generally take the form of email correspondence,
- Pacific Hydro's employee observation/conversation program which requires each employee and Full time Operations and Maintenance contractor to make 12 observations and subsequent actions annually, which generally takes the form of electronic submissions via Intelex, and/or
- internal quarterly scheduled, or ad hoc, review of Pacific Hydro's site/asset risk registers.

Any subsequent change/s to the plan stemming from any agreed deficiencies or recommendations identified from the above sources or identified in the annual review/preparation itself are performed during the annual review/preparation of this plan. If there are more critical changes required to important information, including but not limited to contact details or applicable procedures/policies these will be performed as

soon as possible. The updated plans will then be reloaded onto the webpages listed in the plan and provided to the reception personnel for storage at Pacific Hydro's main office.

As well as incorporating any of the above changes the reviews intension is to, but is not limited to, re-aligning the plan to any updated Legislation, Regulations or Codes, industry practices, asset configurations/locations and work towards continual improvement.

An audit prior and post the DFDP will be undertaken by a Pacific Hydro representative responsible for carrying out this plan to ensure:

(A) that the qualifications and experience of personnel performing the scheduled inspection and/or clearance works adheres to both ESV's and this plans requirements (including currency),

(B) the line vegetation inspection report has been submitted to Pacific Hydro,

(C) that all inspections, reports and subsequent clearance work recommendations have been conducted in line with the scope and agreed timing/scheduling of the recommendations and to the quality of this plan and the applicable Acts, Regulations, Codes and Standards (e.g., AS 4373) hence ensuring clearance has been maintained for the overhead lines, and

Auditing the accuracy and quality of any inspections/clearance works carried out under the plan is performed through conducting a ground based visual audit following the completion of the annual vegetation Inspection/clearance works. The scope of the visual audit will cover, as a minimum, a randomly selected 10% of the Electric Line asset spans previously inspected and take the form of either a marked-up version of the inspection/clearance report or an I-Auditor checklist. If any significant non-compliances including, but not limited to, unmentioned vegetation or insufficient minimum clearance space are noted then the audit scope will be expanded to include 100% of the Electric Line assets. These non-compliances will then be reported back to the electric line specialised service provider for rectification (including specified timeframes) and further contractor performance review and discussion, and

This audit will be performed by either:

A Pacific Hydro representative who has:

Knowledge of applicable Acts, Regulations and Codes associated with this plan,

Knowledge of this plan and its auditing obligations,

Knowledge of, and are familiar with, the Electric Line Assets subject to the audit, and or,

An independent third party with:

Knowledge of applicable Acts, Regulations and Codes associated with this plan,

Knowledge of this plan and its auditing obligations,

Knowledge of, and are familiar with, the Electric Line Assets subject to the audit.

(D) the line vegetation inspection report and minimum clearance recommendations/works from the report/s, if any, have been entered into the CMMS and that task/s have been closed out following completion of the works.

If one of the items in the above list are believed to have not occurred then the Pacific Hydro representative responsible for carrying out this plan is to immediately contact the provider of the services/reports and request the required information, immediately perform the required work, or contact their manager and request support to perform the work. Establishment of the cause/reason for any non-compliance and how reoccurrences will be avoided will be required of the specialised service provider:

- performance of the specialised service provider can be reviewed/audited through Pacific Hydro's online software audit provider The Pacific Hydro representative responsible for carrying out this plan should then report results back to the provider of the services/reports. Establishment of the possible cause/reason for any under performance and how reoccurrences will be avoided will be required of the specialised service provider.
- Pacific Hydro will also take the opportunity to perform additional inspections/audits outside the above timeframe if other scheduled/unscheduled line works are expected and resourcing is available.

The results of these audits will be recorded in the CMMS. The notification and subsequent closeout and any nonconformances raised is done in several ways depending on the format/forum that the non-compliance was initially raised and can include, but is not limited to:

- correspondence confirmation (e.g., letter, email, verbal),
- closure of Corrective Actions List (in the case of Health Safety and Environment actions),
- updating/closure of applicable task in CMMS,
- updating or Risk Register/s, or
- other

(p) Qualifications and Experience

The current qualifications conducted by a registered training organisation, including those that require annual refresher training, and experience of the person/s selected to inspect and/or subsequently cut/remove trees around the overhead lines will include, but is not limited to:

- Hold a current certificate that is approved by Energy Safe Victoria in tree clearing, namely UET20321 Certificate II in ESI powerline Vegetation Control and shall be issued by a registered training organisation.
- considered an "Qualified person" under the Electrical Safety (general) Regulations (persons responsible for executing clearance works),
- being trained in accordance with the Blue Book additionally job specific requirement and past equivalent such as the following may be required as part of the elective units of competency.

	Qualification / Competency Standard Unit (CSU) number	Assessor	Cutter working from EWP	Ground Crew	Specialised Plant Operator	Tree Climber
Core Competency Standard Units						
Monitor Vegetation control work in the vicinity of live electrical apparatus	UETDRVC009	M	M	C	M	M
Apply work health and safety requirements for powerline vegetation control	UETDRVC001	C	M	M	M	M
Comply with environmental requirements	UETDREL002	M	M	C	M	M
Operate and maintain chainsaws	AHCMOM213	M	M	C	M	M
Work safely in the vicinity of live electrical apparatus as a non-electrical worker	UETDREL006	M	M	C	M	M
Elective Competency Standard Units						
Recognise Plants	AHCPCM204	M	C		C	C
Assess vegetation in an electrical supply industry environment	UETDRVC002	M				
Access trees for inspection	AHCARB322					M
Operate machinery and equipment	AHCMOM304		C	C	M	C
Licence to operate a boom-type elevated work platform (>11m)	TLILIC0005		M			
Control vegetation in the vicinity of live electrical apparatus from within the tree	UETDRVC006					M
Control vegetation in the vicinity of live electrical apparatus from an elevated work platform	UETDRVC004		M			
Control vegetation using pruning techniques	UETDRVC007		M		M	M
Use specialised plant to cut vegetation above ground in the vicinity of live electrical apparatus	UETDRVC011				M	
Operate a mobile chipper/mulcher	FWPHAR2208		C	C	C	C
Control vegetation in the vicinity of live electrical apparatus from ground level	UETDRVC005			C	C	
Fell small trees	AHCPCM205		C	C	C	
Apply chemicals under supervision	AHCCHM201		C	C	C	C
Perform rescue from within a tree in the vicinity of live electrical apparatus	UETDRVC010					M
Refresher Training (Frequency)						
Safe approach distances – Vegetation Work (1 Year)		M	M	C	M	M
Perform EWP controlled descent escape (1 Year)	UETTDRRF08		M			
Perform EWP rescue (1 Year)	UETTDRRF002		M			
Perform rescue from within a tree in the vicinity of live electrical apparatus (1 Year)	UETDRVC010					M

Where M Mandatory and C Conditional

Pacific Hydro will obtain these training records from the specialised service provider via the individuals Australian ESI Skills Passport or other means (e.g., email), prior to the commencement of associated works.

In the case of a Suitably Qualified Arborist, that is required to perform tasks noted in Schedule 1 of the Code of Practice the requirement shall be:

1. Qualification of a National Certificate III in Arboriculture including the "Perform a ground-based tree defect evaluation" unit of competency, or an equivalent qualification; and
2. At least three years of field experience in assessing trees

If any worker associated with the assets and tasks covered under this plan are found to be performing works without required training/qualifications/experience or outside of their capabilities or the prescribed documentation, they are supposed to be working under then work will be immediately stopped and the associated personnel removed from the site.

Those persons carrying out inspection, cutting or removal of trees at an Applicable Site/Maintenance Zone will be required to be inducted prior to the commencement of associated works. This involves the combination of a:

- General Induction, and
- Site Specific Induction,

which includes, but is not limited to, a combination of corporate and site-specific policies, procedures, practices, plans (including reference to applicable details from this Electric Line Clearance Management Plan), site maps, emergency evacuation contacts/locations, current safety alerts, expected weather conditions and operational status of applicable assets. The induction, requirements for refreshers, record keeping (minimum for 5 years) and associated communication of site-specific information will be the responsibility of the operation and maintenance provider for that specific site.

(q) Notification and Consultation Procedures

Plans to inspect or subsequently cut or remove vegetation as required under clause 16, 17 and 18 of the Code, will be expressed in writing to the affected person/s (owner, occupier, Council) by the Pacific Hydro Australia's communication department, where applicable and when considering existing arrangements/agreements, in the form of the 'Stakeholder Letter Template' (Appendix J), in the case of publication in the form of the 'Published Notification (Newspaper) Template' (Appendix L). The notification will also include, where applicable, details of the impacts if such work relates to cutting or removal of vegetation listed under section (h) of this plan, which for the avoidance of doubt includes those listed under Part 16 (3) of the Code.

Consultation between Pacific Hydro and the affected person/s can be organised prior to works to further discuss any impacts, works methodology and details as described in the Letter.

In the case of any 'Urgent' cutting or removal of vegetation (including 'Hazard' tree) as described under clause 18 of the Code the affected person/s (owner, occupier, Council, etc.), where applicable and when considering existing arrangements/agreements, will be notified as soon as practicable after the work has been carried out and in the form of and including the details of the work recorded in the 'Urgent Pruning Report Form' (Appendix M) and stored for 5 years in the CMMS. The additional details required for recording are listed below:

a. Where and when the work was undertaken,
b. why the work was required, and

c. the last line vegetation inspection of the section of the electric line where the work was required.

(r) Dispute Resolution Procedures

Pacific Hydro in line with its Community Charter (Appendix M) "aims to establish and maintain respectful and collaborative relationships with the communities in which it operates or seeks to operate in". The Complaints Handling Process is located on Pacific Hydro's website:

Complaints Handling Procedure Chart

This is managed by the Communications and External Affairs department and explains the way in which Pacific Hydro would attempt to deal with a complaint prior to becoming a disputed situation. If however there was a dispute between parties relating to or arising from this plan or general Electric Line Clearance requirements that cannot be resolved using reasonable endeavours and acting in good faith to resolve the dispute by joint discussions then:

i. If the dispute is not resolved within 7 calendar days, the dispute will be internally escalated (done once reached process box "Initiate escalation and explain time frames") to the Pacific Hydro person responsible for resolving disputes and the Senior Management of the parties/complainant/s;
ii. If the dispute is not then resolved within 7 calendar days, then this will be further escalated external, where either party may refer the dispute to arbitration or to any court of competent jurisdiction (e.g., The Energy and Water Ombudsman Victoria on 1800 500 509) (done once reached process box "Advise complainant of external escalation options and alternative pathways to resolution").

This dispute procedure is only found within this Electric Line Clearance Management Plan which is available for inspection at the listed website link.

The Pacific Hydro person responsible for resolving disputes is:

Mr. Cesar Salvatierra

Executive Manager, Operations

Energy Pacific (Vic) Pty Ltd

ABN 18 063 543 984

Level 13, 700 Collins Street

Docklands, Victoria, 3008

Phone: (03) 8621 6000

5.4 (s) Exemptions granted by Energy Safe Victoria

Currently there are no exemptions granted to Pacific Hydro Australia

5.5 10 Obligations relating to management plan

7(a) Plan published on Internet Site

The latest prepared Electric Line Clearance Management Plan is available for inspection on the responsible persons website located at either of:

Challicum Hills Wind Farm

Cape Nelson North/Sir William Grant Wind Farm

Cape Bridgewater Wind Farm

Cape Nelson South Wind Farm

Crowlands Wind Farm

Any superseded versions of the plan located at the above websites will be overwritten by the person responsible for preparing the plan once completed for the upcoming March 31st deadline. This upload is done via the Communications and External Affairs department.

6. Schedule 1 - Code of Practice for Electric Line Clearance

6.1 Part 2 – Clearance Responsibilities, Division 1 – Roles and Responsibilities

6.2 9 Responsible person may cut or remove hazard tree

A hazard tree can only be classified if a 'suitably qualified arborist' has

(a) assessed the tree having regard to foreseeable local conditions; and

(b) advised the responsible person that the tree, or any part of the tree, is likely to fall onto or otherwise come into contact with an electric line.

(c) Consideration for Indigenous and Significant trees

(d) Protected flora and fauna, including habitats

This definition remains valid irrespective of if the tree is, or is not, likely to grow into the minimum clearance space between scheduled inspections.

The services of a suitably qualified arborist will be requested through the specialised service provider to establish the above.

A suitably qualified arborist is considered someone who complies with the applicable arborist requirements stipulated under section (p) of this plan.

Similar to Urgent tree cutting/removal written notification to affected persons in the form in Appendix M, depending on the location of the tree, as soon as practicable after completing the cutting or removal. The urgent work must ensure:

1. Trees are not cut further than 1 meter from the minimum clearance space for a span of an electric line, or
2. Trees are not removed unless:
    a. The tree has fallen or become damaged and is to be removed to keep the minimum clearance space for a span of an electric line free of trees; or
    b. a suitably qualified arborist has:
        i. assessed the tree having regard to foreseeable local conditions; and
        ii. advised the responsible person that the tree is likely to imminently fall onto or otherwise come into contact with an electric line.

6.3 Part 2 – Clearance Responsibilities, Division 2 – Manner of cutting and removing trees

6.4 11 Cutting of removal of Indigenous or significant trees must be - minimised

In the case that cutting of indigenous or significant trees, as identified under section (i) is required it will, 'as far as practicable', be restricted to the minimum extent necessary to ensure compliance with:

- the Code, Division 1 (10), or
- to make an unsafe situation safe

If the identified tree is indigenous or significant, it shall not be removed unless it necessary to achieve the above criteria or a 'suitably qualified arborist' has

1. inspected the tree, and
2. advised the responsible person that cutting the tree in accordance with the above criteria would make the tree unhealthy or unviable.

The services of a suitably qualified arborist will be requested at the time of inspection/identification, or closely following, through the specialised service provider to establish the above.

Refer to section (i) for how existence/location of Indigenous or significant trees can be obtained. If in doubt, please contact the Pacific Hydro Environmental Team via the Enquiries line on 1800 730 734.

6.5 12 Cutting of removing habitat for threatened fauna

In the case that cutting/removal of threatened fauna habitat is required this will be done outside of the breeding season for that species of fauna wherever practicable. Consideration for pruning is only necessary to make an unsafe situation safe. If it is not practicable outside of the breeding season, translocation of the fauna must be undertaken wherever practicable to ensure compliance with the Code.

Refer to section (i) for how the existence/location of these trees and identification of this fauna and its associated breeding season may be obtained. If in doubt, please contact the Pacific Hydro Environmental Team via the Enquiries line on 1800 730 734.

6.6 Part 2 – Clearance Responsibilities, Division 3 – Notification, consultation and dispute resolution

6.7 16 Responsible person must provide notification before cutting or removing certain trees

Prior to cutting or removal of certain trees the person responsible for this plan shall notify the owner or occupier of the property, including stakeholder contiguous to the works, that the intent to perform this work. Refer to Appendix J. for the form which Pacific Hydro will, where applicable and when considering existing arrangements/agreements, notify and initiate the consultation process. It is the person responsible for carrying out this plan to ensure the correct and timely notification under this clause. The notification allows for a period for the works to be performed in. Ensuring the works are carried out during this period is done through several ways; - The specialised service provider first providing a suitable timeframe, then - Notification being sent in line with the specialised service provided timeframe.

If the works are not able to be performed during this period for any reason, then the applicable stakeholders will be contacted, via phone or other method, before the last day of the period identified. If the works are still required to be done, then an updated Stakeholder Letter will be issued.

6.8 17 Responsible person must publish notice before cutting or removing certain trees

Refer to Appendix K. for the form which Pacific Hydro will publish notice, where applicable and when considering the existing arrangements/agreements. It is the person responsible for carrying out this plan to ensure the correct and timely notification under this clause.

The completion of works within the 14–60-day window is ensured by requesting that the identified clearance work be raised appropriately with the specialised service provider, so a suitable works package is generated. If the works fall outside of the 14–60-day window for any reason other than it is becoming 'Urgent' or a 'Hazard' then re-notification will be issued, and the clearance works re-scheduled. Discussion as to the reasoning behind the delay will be had with the specialised service provider in conjunction with any sub-contractors assigned the work.

6.9 18 Responsible person must consult with occupier of owner of private property before cutting or removing certain trees

Similar to clause 15 reference should be made to Appendix J. for the form which Pacific Hydro will notify and initiate the consultation process, where applicable and when considering the existing arrangements/agreements. It is the person responsible for carrying out this plan to ensure the correct and timely notification under this clause. Pacific Hydro has a database of those stakeholders (e.g., Councils) and Landowners whose lands are leased for the associated Electric Lines to ensure the correct person/s are notified and subsequently consulted. The Stakeholder Letter (Appendix J) also includes additional information to help ensure occupiers/tenants pass on the notification as soon as possible to help consultation with appropriate stakeholder.

6.10 19 Notification and record keeping requirement for urgent cutting or removal

Similar to clause 15 reference should be made to Appendix L. for the form which Pacific Hydro will notify in the case of 'Urgent' works, where applicable and when considering the existing arrangements/agreements. This notification makes provision for urgent works but will still be issued to the applicable recipient as soon as practicable after completing the cutting or removal of the tree. It is the person responsible for carrying out this plan to ensure the correct and timely notification under this clause.

In the case that 'Urgent' cutting or removal of trees this can occur in several ways:

(a) as a result of encroachment or growth of trees that was not anticipated in the management plan, or

(b) as a result of a tree falling or becoming damaged so it is required to be cut or removed to maintain the minimum clearance space, or

(c) because a suitably qualified arborist has

i. assessed the tree having regard to foreseeable local conditions; and

ii. advised the responsible person that the tree, or any part of the tree, is likely to imminently fall onto or otherwise come into contact with an electric line, or

(d) during the fire danger period declared under the Country Fire Authority Act 1958

If the tree meets the above criteria and requires urgent cutting work this work shall be restricted to ensure:

1) The responsible person must not cut a tree further than 1 metre from the minimum clearance space for a span of an electric line, and

If the tree meets the above criteria and requires urgent removal work this work shall be restricted to ensure the responsible person must not remove the tree unless:

a) The tree has fallen or become damaged and is to be removed to keep the minimum clearance space for a span of an electric line free of trees, or
b) a suitably qualified arborist has:
    i) assessed the tree having regard to foreseeable local conditions, and
    ii) advised the responsible person that the tree is likely to imminently fall onto or otherwise come into contact with an electric line.

The services of a suitably qualified arborist will be requested at the time of inspection/identification, or closely following, through the specialised service provider to establish the above.

Appendix L is also the report for record keeping purposes. As per section (o) this document will be stored for 5 years within the CMMS.

7. Other References and Supporting Documents

The table below lists all the documents that have been referenced within the plan:

Document Number	Document Title
AS4372-2007	Pruning of amenity trees
ESV blue book	Code of practice on Electrical Safety for work on or near High Voltage Electrical Apparatus

8. Document History

The following table lists the changes made to this document:

Version	Date	Amended by	Comments
0	08/12/2020	Daniel Choi Senior Operations Engineer	Replaces legacy document PHA. OPS.08.011
1.0	5/4/2022	Daniel Choi Senior Operations Engineer	Updates as per ESV review
2.0	28/03/2023	Yuriy Odarenko Senior Operations Engineer	Used New Pacific Blue Template

9. Appendices

A.1 **Portland Wind Farm Overhead Line – Site Layout (Lines) (HBRA Classified)**

A.2 **Cape Bridgewater Site Layout showing the location of the electric lines and poles (HBRA Classified)**

A.3 **Cape Nelson South Site Layout showing the location of the electric lines and poles (HBRA Classified)**

A.4 **Cape Nelson North Site Layout showing the location of the electric lines and poles (HBRA Classified)**

A.5 **Cape Sir William Grant Site Layout showing the location of the electric lines and poles (HBRA Classified)**

A.6 **Challicum Hills Wind Farm Overhead Line – Site Layout (HBRA Classified)**

A.7 **Crowlands Wind Farm Overhead Line – Site Layout (HBRA Classified)**

A.8 **Powercor Clearance Charts Guideline and Code Graphs, formulas and figures**

A.9 **PHA.HSE.09.014 Contractor Performance Evaluation**

A.10 **Stakeholder Letter Template**

A.11 **Published Notification (Newspaper) Template**

A.12 **Urgent Cutting/Removal Report Form**

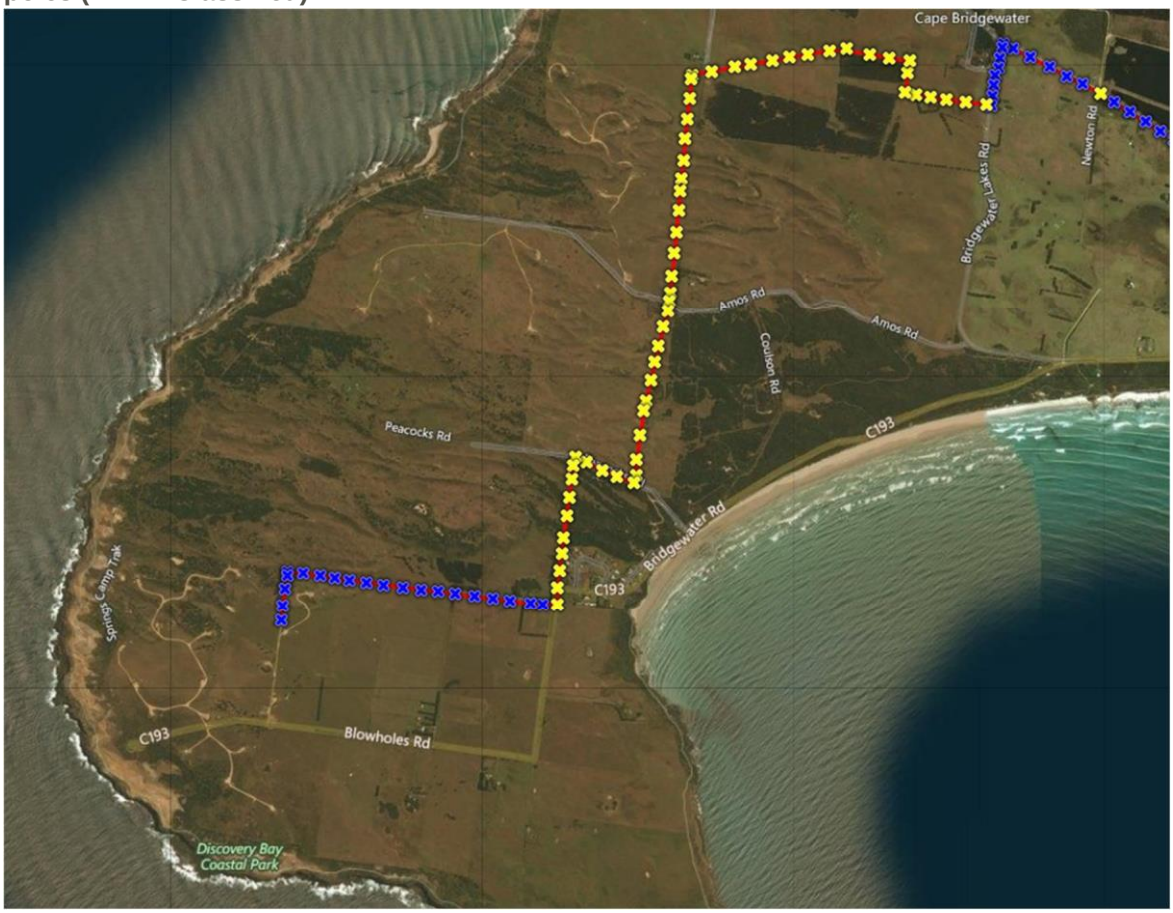
A.13 **Pacific-Hydro-Community-Charter-2019**

A.14 **Example Line Vegetation Inspection Report**

Appendix A.1. Portland Wind Farm Overhead Line – Site Layout (HBRA Classified)

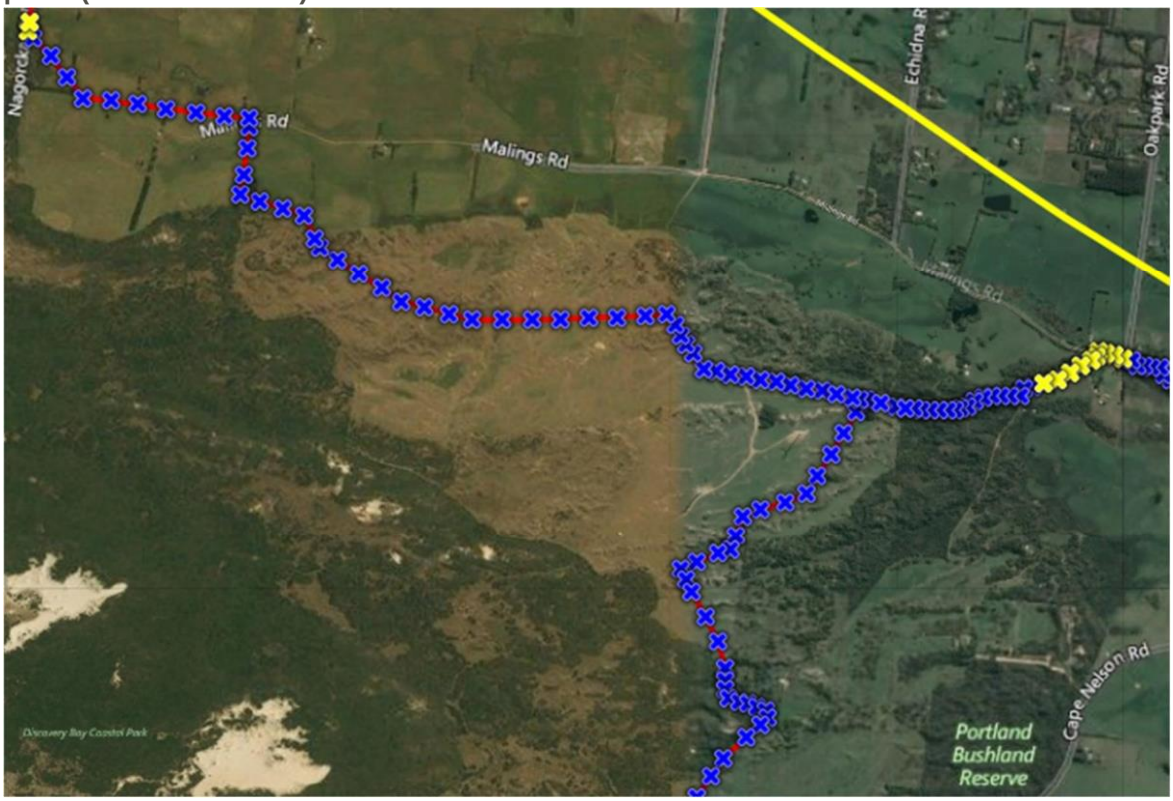
Key	Description
	Wind turbine generator
	Overhead power line
	Overhead power line Challicum Hills and Crowlands
	Underground cable
	Poles owned by Pacific Hydro
	Poles owned and maintained by DNSP (Powercor)

Appendix A.2. Cape Bridgewater Site Layout showing the location of the electric lines and poles (HBRA Classified)

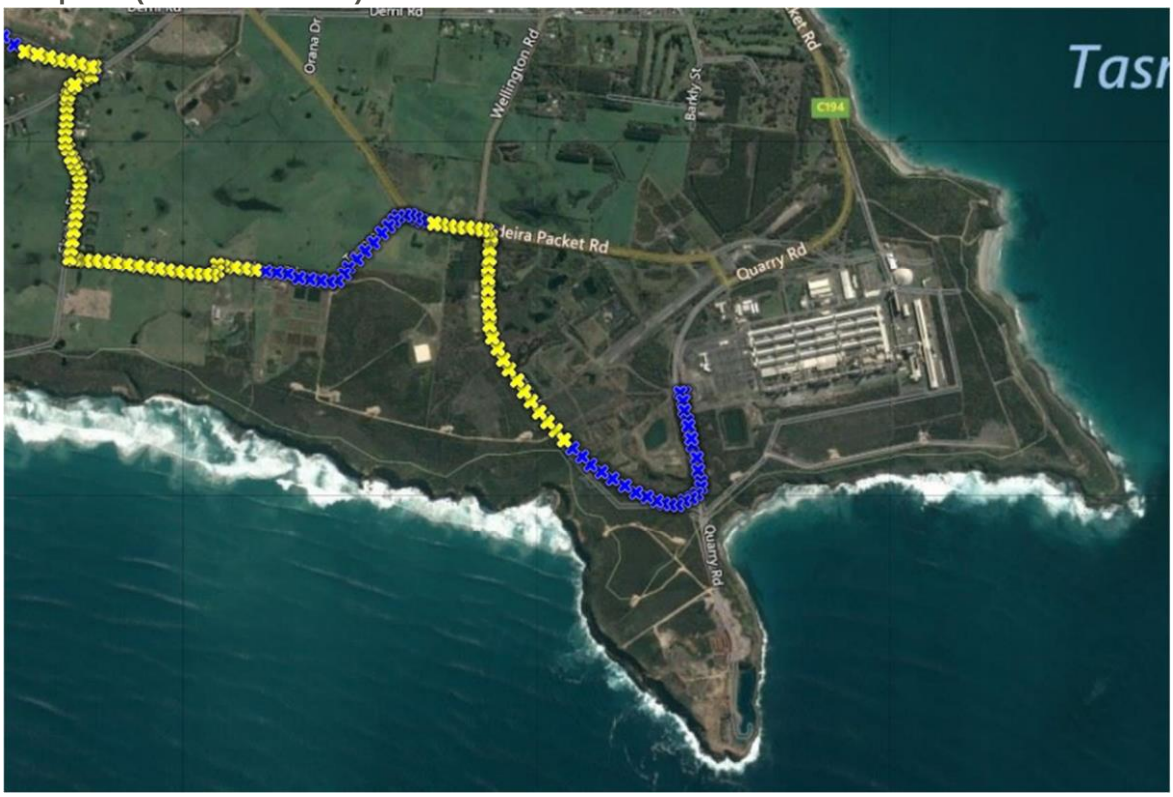


Appendix A.3. Cape Nelson South Site Layout showing the location of the electric lines and poles (HBRA Classified)

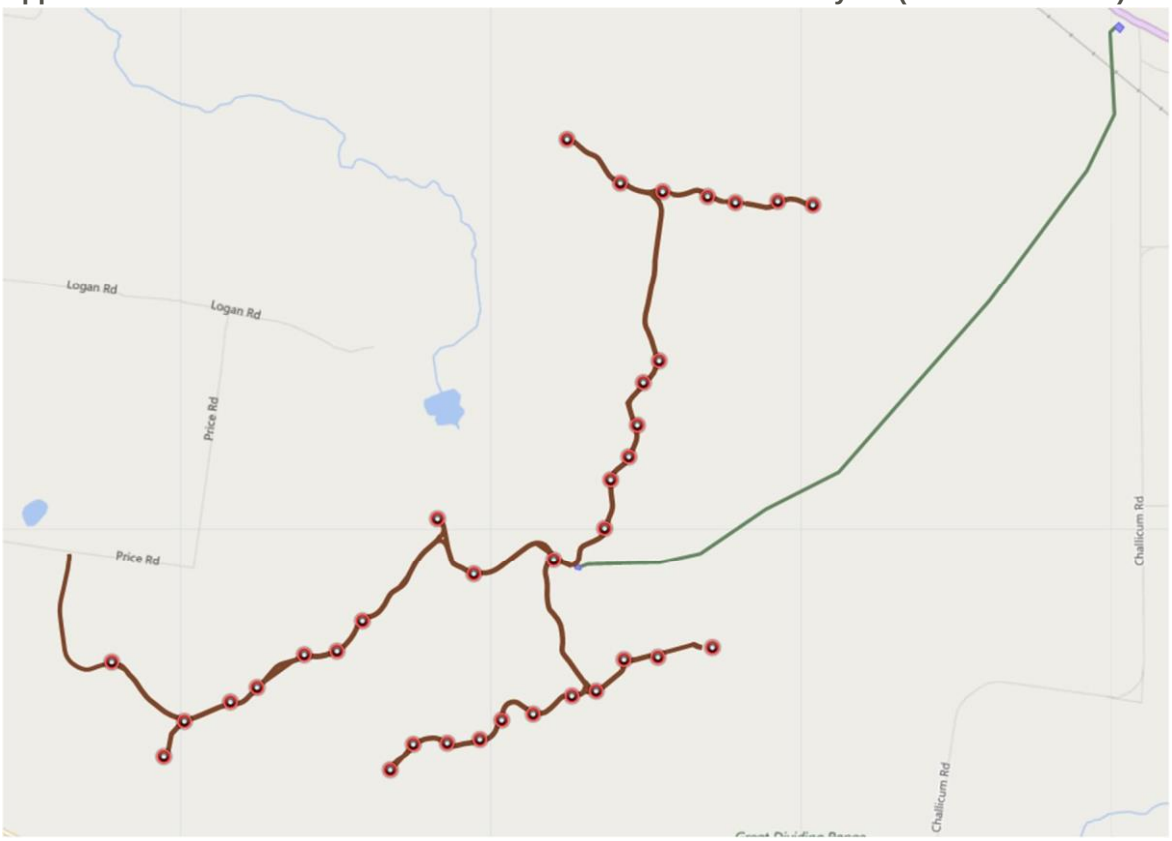
Appendix A.4. Cape Nelson North Site Layout showing the location of the electric lines and poles (HBRA Classified)



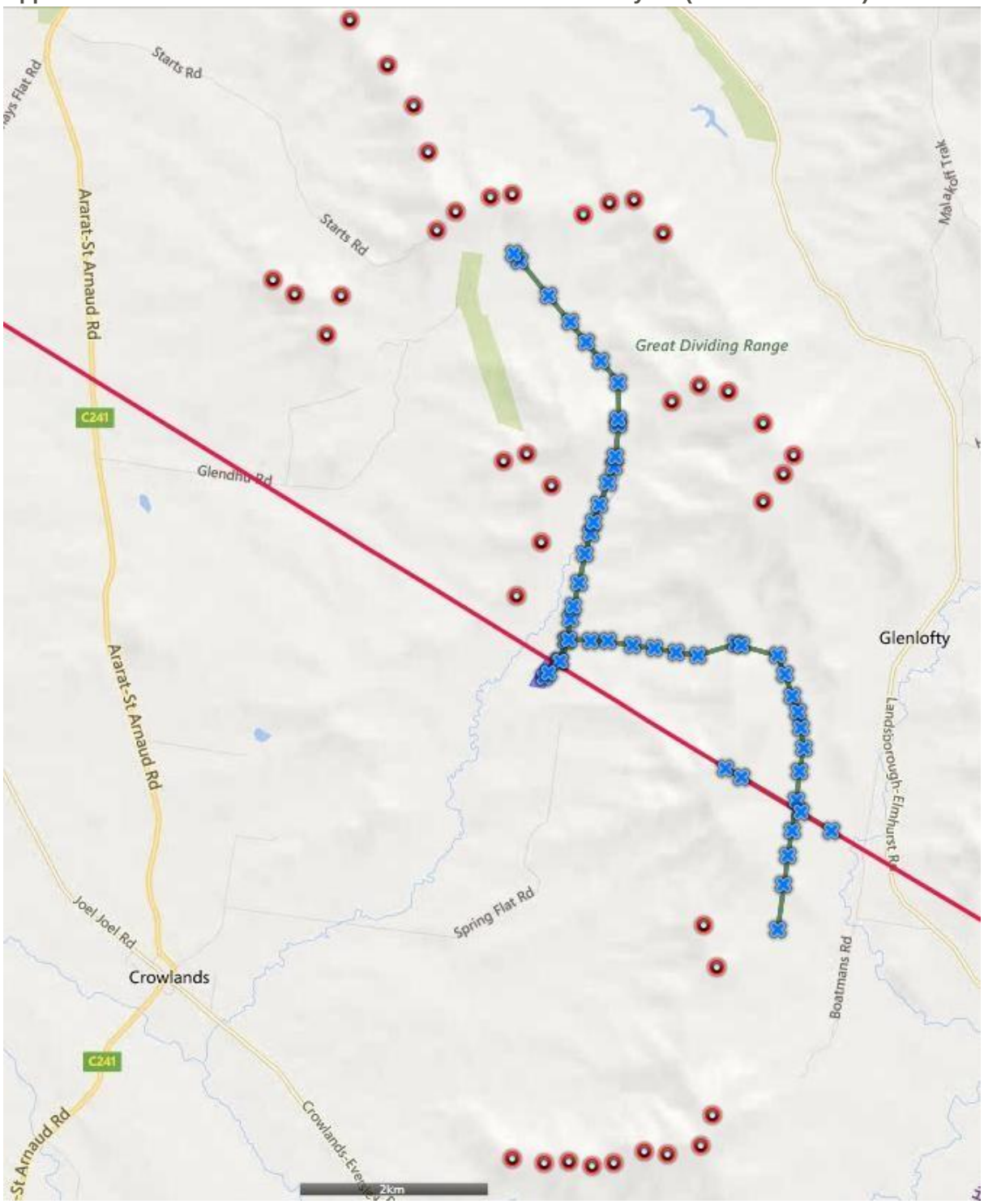
Appendix A.5. Cape Sir William Grant Site Layout showing the location of the electric lines and poles (HBRA Classified)



Appendix A.6. Challicum Hills Wind Farm Overhead Line – Site Layout (HBRA Classified)



Appendix A.7. Crowlands Wind Farm Overhead Line – Site Layout (HBRA Classified)



Appendix A.8. Pacific Hydro Australia Vegetation Clearance Chart.

Vegetation Clearance Bare AAAC 1120 Conductors		
Span (m)	**Total Vertical (Sag) Clearance (m)**	**Total Horizontal (sway) Clearance (m)**
Near Pole (<1/6 span)	2.25	2.25
0-45	2.25	3
45-150	4	5
150-220	5	6
220-280	6	7
280-350	8	8
350-400+	9	9

Appendix A.9.

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HSE Contractor Performance Evaluation

Contractor:		**Single Project / Annual Review:**	
Job Reference:		**Assessed by:**	
Location:		**Date of Evaluation:**	

Safety Performance

Did the contractor have any work injuries on site during the period of the contract / last 12 months? If YES, give details.	YES / NO
Was the contractor involved in any safety, environmental or other incidents? If YES, give details.	YES / NO

Safety Management and Standards

Poor = 1 Satisfactory = 2 Good = 3 Very Good = 4 Excellent = 5

	1	2	3	4	5
Rate the contractors ability to prevent injuries & achieve a goal of zero injuries and incidents					
Rate the adequacy of the contractor's safety management system					
Rate the adequacy of the contractor's safety auditing and inspections					
Rate the contractor's safety performance					
How good was the housekeeping and orderliness?					
Rate the safety attitude and cooperation of the contractor's supervisors.					
Rate the safety attitude and cooperation of the contractor's employees e.g. wearing PPE, barricading					
Rate the planning of safety during the contract. Was it positive and proactive? Toolbox Talks etc					
Rate the quality of the contractor risk assessments					

Comments on overall safety performance:

Contract

Poor = 1 Satisfactory = 2 Good = 3 Very Good = 4 Excellent = 5

	1	2	3	4	5
How well were requirements understood, incl. safety					
How responsive was the contractor to requests?					
How easy was communication (fax, email, etc.)?					

Comments:

HSE Work Performance

Poor = 1 Satisfactory = 2 Good = 3 Very Good = 4 Excellent = 5

	1	2	3	4	5
Was all the work completed safely on time?					
How prompt & complete was the HSE work documentation?					
Did the finished work meet the contract HSE specifications?					
How well was the contract HSE 'self-managed'?					

Comments on contract award:

Note on consultation with the Project Manager add to the Approved Contractor List. Yes/No

Overall, would you like to use this contractor again? YES / NO

Recommend:
a) Stay on Approved Contractors List ☐ or
b) Remove from Approved Contractors List ☐
c) Need for further Dialogue re safety issues ☐

Appendix A.10.

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Consultation and Notification

Notification by Stakeholder Letter

The Following template sets out the Notification/Consultation requirements for all routine cutting/removal works Pacific Hydro Pty Ltd are the responsible for under clause 16 and 18

- on private property, or
- on public land, or
- a tree of cultural or environmental significance, or
- listed in a planning scheme to be of ecological, historical or aesthetic significance.

Urgent clearing, the recording of associated details and notification/s are covered separately and will comply with clause 19 of the Code.

Stakeholder Letter

Date…… /……../……

Property Location: ……

Tree/s Details:……

Dear Stakeholder,

TREE/S NEAR LINE/S

As part of our Electric Safety (Electric Line Clearance) Regulations 2020 and our approved plan, we regularly inspect powerlines to ensure compliance with the above regulations and associated Code of Practice .

Our most recent inspection has revealed that a tree/s within, or which may affect, your property have grown too close to the electric line(s) and do not meet the clearances specified in the Electricity Safety (Electric Line Clearance) Regulations 2020, as prescribed in the Electricity Safety Act of 1998 and requires cutting/removal works to be performed.

These works are scheduled to occur at the located listed above order to maintain the required clearance space around powerlines prescribed by the Code. These works will occur no earlier than 14 days and no later than 60 days from the date of this notice.

If, for any reason, the cutting and/or removal works becomes 'Urgent' (as defined in the Code) during the first 14 days then the schedule will be brought forward and affected persons notified as soon as practicable.

Pacific Hydro utilises a qualified service provider to manage the inspection and clearance works around its powerlines.

Unless considered 'Urgent' we would look to consult with the respective owner/occupier of the land to ensure the satisfaction of all stakeholders involved with the require works.

For further advise please call **Pacific Hydro** on **1800 730 734**

Please note: if you are a occupier/tenant of this location, then it is important that the owner of this property is notified of this notice as soon as possible so appropriate consultation can be conducted subject to the scope of cutting/removal works required.

Thank you in advance for your co-operation,

…….

Pacific Hydro responsible representative

13/700 Collins Street

Docklands, VIC 3008

Appendix A.11.

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Notification
Notification by Publication

The Following template sets out the Notification requirements for all routine vegetation cutting/removal works Pacific Hydro Pty Ltd are the responsible person for under clause 17 of the Code. Urgent clearing, the recording of associated details and notification/s are covered separately and will comply with clause 19 of the Code.

The below Newspaper advertisement is to be published in the main local publication and remain current when working in that location listed within the advertisement.

NOTICE TO AFFECTED PERSONS OF TREECUTTING / REMOVAL

Under the Code of Practice for Electric Line Clearance

Pacific Hydro Pty Ltd must maintain vegetation clearance around powerlines in compliance with the Electricity Safety (Electric Line Clearance) Regulations 2020 and the Code of Practice for Electric Line Clearance set out in the Schedule to the Regulations.

Under clause 17 of the Code notice is hereby given by Pacific Hydro Pty Ltd of cutting and/or removal works on trees that are on public land. These works are scheduled to occur [insert details of location] in order to maintain the required clearance space around powerlines prescribed by the Code. Works will occur no earlier than 14 days and no later than 60 days from the date of this notice.

If, for any reason, the cutting and/or removal works becomes 'Urgent' (as defined in the Code) during the first 14 days then the schedule will be brought forward and affected persons notified as soon as practicable.

Pacific Hydro Pty Ltd.

13/700 Collins Street

Docklands, VIC 3008

Enquires: 1800 730 734

Appendix A.12.

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Urgent Cutting/Removal Report Form

Year Range 20….—20….

Date	Site (PWEP or CHWF)	LIS/Pole/Spur	Details of last inspection Date	Reason for Works (eg, Hazard or Urgent)	Date Stakeholder Notified (eg, Council or owner/

This form is to be returned to the Pacific Hydro after Urgent Pruning and subsequent notification to be carried out under clause 19 of the Electricity Safety (Electric Line Clearance) Regulations — Code of Practice.

This form is to be used where notification of a tree owner was not able to be carried out in accordance with clause 13 of the Electricity Safety (Electric Line Clearance) Regulations 2020. Any urgent cutting is to be conducted in accordance with clauses 14 and 15 of the Code.

Pacific Hydro
Attn: Operations Manager
13/700 Collins Street
Docklands Victoria 3008

Phone: (03) 8621 6000

Appendix A.13.

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Community Charter

Pacific Hydro aims to establish and maintain respectful and collaborative relationships with the communities in which it operates or seeks to operate in. Recognising that community support is as critical to project success as technical and financial factors, Pacific Hydro endeavours to develop, maintain and continually improve our relationships and support for our projects.

We aim to develop mutual trust and respect within our host communities through adopting appropriate levels of transparent, open engagement and communication at all stages of our projects. We are committed to delivering respectful, positive and lasting social, environmental and economic benefits to our host communities by supporting community initiatives and seeking mutually agreed solutions to potential issues.

Our Purpose, Values and Culture Statements guide the interactions we have with all stakeholders, including local communities, and we recognise and respect people's rights, local laws, customs and cultures.

Pacific Hydro is committed to working with local communities in ways that are inclusive and collaborative to identify and mitigate potential impacts resulting from our activities, including social, cultural, health, safety or environmental, responding to the needs of each community.

As a member of your community, Pacific Hydro will also strive for best possible outcomes in response to enquiries, complaints and feedback from our stakeholders.

Rachel Watson

Chief Executive Officer

Version 4: Approved

Date: December 2020

Appendix A.14.

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powercor
network services

UTILITY TREES

PLWF 66KV Powerline Vegetation Inspection October 2020

Treespan Pty Ltd: Trading as Utility Trees
ABN 63 604 604 293
ACN 604 604 293
38 Holcombe Road Glenlyon
P.O. Box 1014 Wendouree Village 3355 Vic.

Prepared for: Laura Baker
Powercor Network Services

Report prepared by: Rod Sewell
rsewell@utilitytrees.com.au
0448 476 499

DISCLAIMER

This information paper is provided to Powercor Network Services by Utility Trees on a confidential basis and is provided to the recipient strictly on the understanding that its contents will be kept confidential and will not be disclosed to any other party without Utility Trees prior permission in writing. In accepting the proposal, the recipient acknowledges that Utility Trees will suffer consequential loss or damage if the confidential information is disclosed whether directly or indirectly or used in any way by the recipient without the consent of Utility Trees.

Due to the nature of trees and the practical limitations in accurately assessing the structural integrity of all parts of a tree it is not possible to make a completely comprehensive assessment of the condition of a tree. The recommendations in this report are based on visual assessments and external indicators and there is also some degree of subjectivity. This report is intended to be used as a tool to assist in the risk management of trees growing in the vicinity of infrastructure. It should be noted that any tree near any structure or property or person(s) poses a risk.

To this extent, neither Utility Trees nor any of its employees or directors or advisers gives any warranty as to the reliability or accuracy of the information nor accepts any responsibility arising in any other way (including by reason of negligence) for errors or omissions herein nor accepts liability for any loss or damage suffered by any person or any other persons placing any reliance on, acting on the basis of, the contents hereof. No party shall be entitled to raise any claim or suit of action on the basis of the contents of this report.

Scope

Utility Trees have been contracted by Powercor to complete an inspection of the PLWF 66KV Overhead Powerlines at the Portland Windfarms P3C- CBW and Cape Nelson South tee-off line servicing the Cape Bridgewater and Cape Nelson Wind Farms.

Inspection includes an assessment of each span with a projection of when the vegetation is likely to enter the clearance space. Identify any tree that may need clearing to ensure compliance with the Electricity Safety (Electric Line Clearance) Regulations 2020 is maintained until the next inspection in 2021.

Trees within the vicinity of the Powerlines will be assessed to identify any (Hazard) trees or parts of the trees that are likely to fail and enter the clearance space.

The details of any vegetation identified as likely to enter the clearance space will be reported with cutting details and recommendations to ensure the compliance is maintained.

The report contains the location details of each span and the year the vegetation is likely to grow within the clearance space. Details of trees that need to be cleared including Tree Species, Description of Work, a photograph, Clearance space required and the actual clearance.

. **Code**	**Description**
2020	Foliage Predicted to grow into Clearance Space 2020
2021	Foliage Predicted to grow into Clearance Space 2021
2022	Foliage Predicted to grow into Clearance Space 2022
2023	Foliage Predicted to grow into Clearance Space 2023
VS	Foliage Predicted to grow into Clearance Space 2023 to 2025
NVS	Non-Vegetated Span
OF	Foliage Contacting or with 30mm of Optic Fibre

Findings

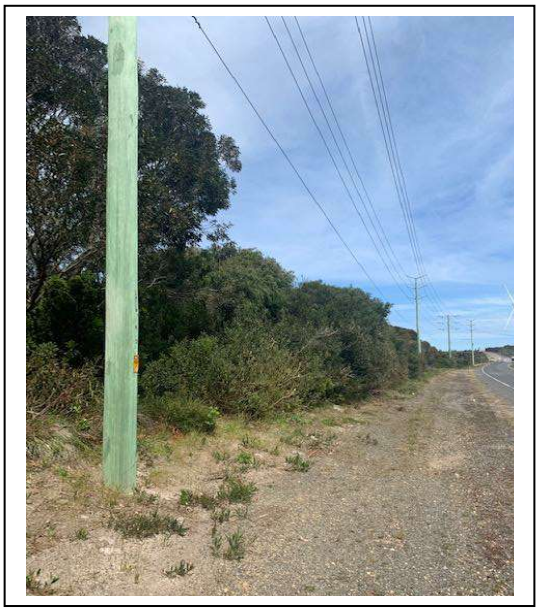
Summary

The 66kV lines were inspected on the 22nd & 23rd October 2020. All spans were inspected, and the codes have been updated to reflect their status. The data for these lines is within Appendix 1 and Appendix 2.

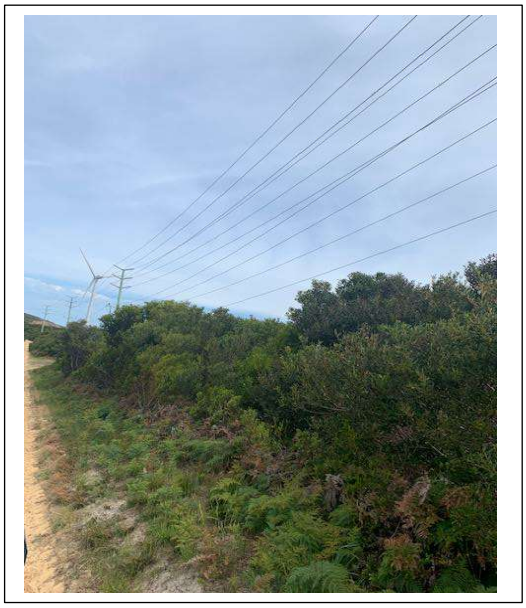
There are 6 spans that require clearing to ensure compliance is maintained throughout the upcoming 2020/21 fire season. There are 10 locations where the trees are encroaching on the communications cable and it is recommended that these be cleared to avoid damage to the communications cable, details are listed in the tables below

Code	Pole No
2021	54
2021	119
2021	160
2021	161
2021	205
2021	209

Optic Fibre	Pole No
2021	9
2021	38
2021	59
2021	67
2021	132
2021	149A
2020	235
2020	289A
2021	299
2020	311



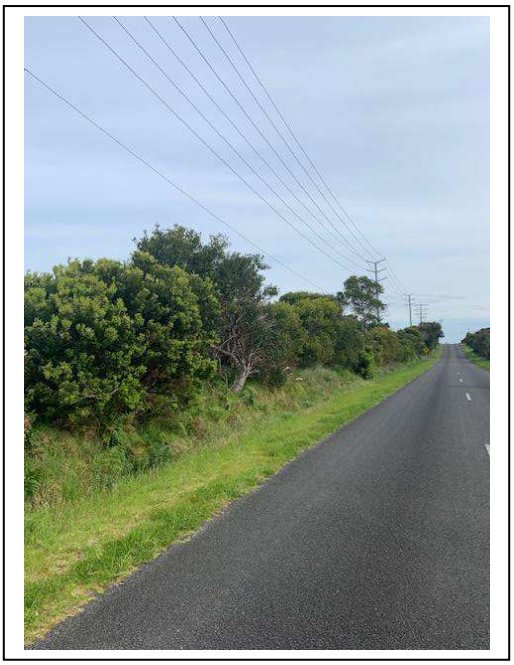
Location 1 Pole 9 Melaleuca (OF)



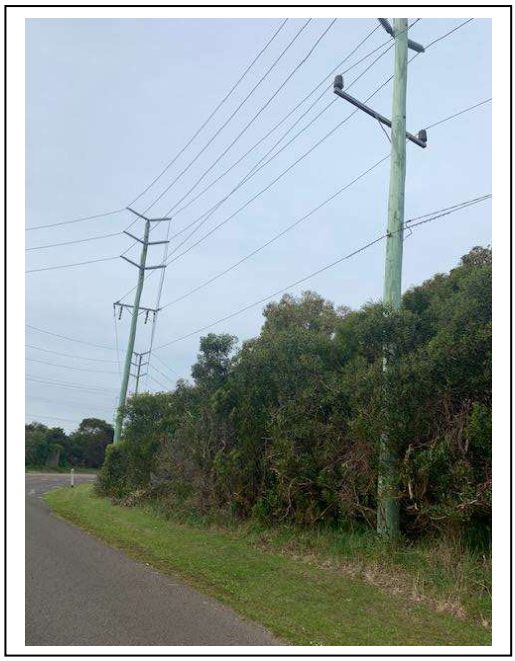
Location 2 Pole 38 Melaleuca (OF)

Location 3 Pole 54 Pine 4.5M Code 21

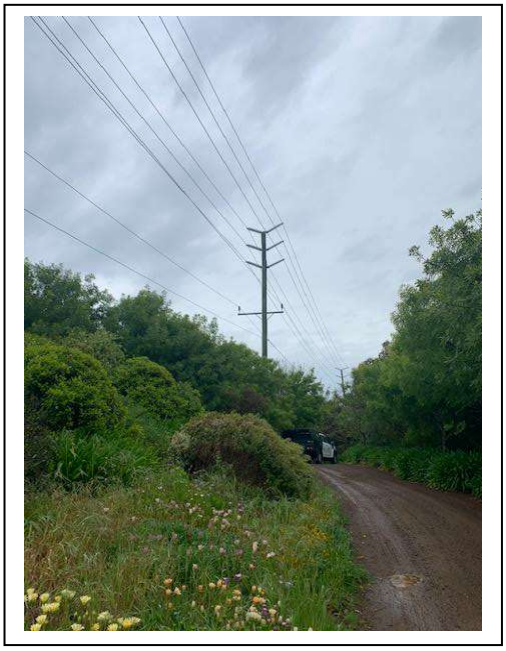
Location 4 Pole 59 Pine Code (OF)



Location 5 Pole 67 (OF) Code 21



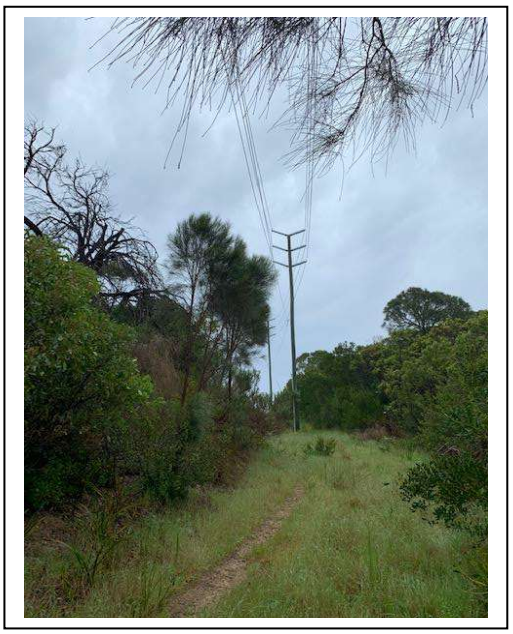
Location 6 Pole 119 (OF) Code 21



Location 7 Pole 132 & 133 (OF) Code 21

Location 8 Pole 149A (OF) Code 21

Location 9 Pole 160 Sheoak Code 21



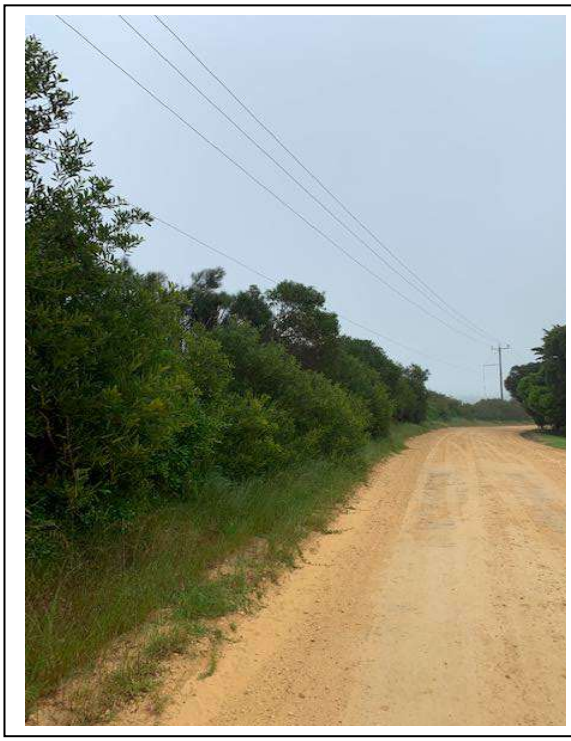
Location 10 Pole 161 Sheoak Code

Location 11 Pole 205 Euc (Code 21)

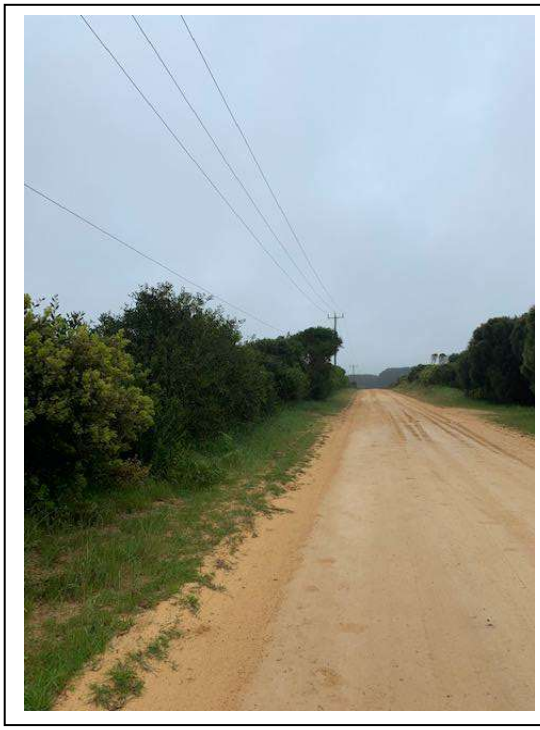
Location 12 Pole 209 (Code 21)

Location 13 Pole 235 (OF) Code 2020

Location 14 Pole 289A (OF) Code 2020



Location 15 Pole 299 (OF) Code 21



Location 16 Pole 133 (OF) Code 2020

Appendix 1

2018 Portland P3C - CBW

Pole No.	2015 Code
1	NVS
2	NVS
3	NVS
4	2022
5	2022
5A	2022
6	VS
6A	2023
7	VS
8	2023
9	2021 (OF)
10	2022
11	NVS
12	NVS
13	NVS
14	NVS
15	VS
16	VS
17	VS
18	VS
19	NVS
20	NVS
21	NVS
22	NVS
23	NVS
24	NVS
25	NVS
26	NVS
27	NVS
28	NVS
29	NVS
30	NVS
31	NVS
32	NVS
33	NVS
34	NVS
35	NVS
36	NVS
37	NVS
38	2021(O/F)
39	VS
40	NVS
41	NVS
42	NVS

Pole No.	2015 Code
43	NVS
44	VS
45	NVS
46	VS
47	NVS
48	NVS
49	NVS
50	NVS
51	NVS
52	NVS
53	VS
54	2021 Pine
55	NVS
56	NVS
57	NVS
58	VS
59	2021 (OF) Pine
60	2022
61	NVS
62	VS
63	VS
64	VS
65	VS
66	VS
67	2021(O/F)
68	VS
69	VS
70	VS
71	VS
72	VS
73	VS
74	VS
75	VS
76	VS
77	VS
78	VS
79	VS
80	NVS
81	NVS
82	NVS
83	NVS
84	NVS
85	NVS
86	NVS

Pole No.	2015 Code
87	NVS
88	NVS
89	NVS
90	NVS
91	NVS
92	NVS
93	NVS
94	NVS
95	VS
96	VS
97	NVS
98	NVS
99	NVS
100	NVS
101	NVS
102	2022
103	2023
104	VS
105	NVS
106	VS
107	NVS
108	NVS
108A	NVS
109	VS
110	VS
111	VS
112	VS
113	VS
113A	VS
114	VS
115	NVS
116	NVS
116A	VS
117	VS
117A	VS
118	VS
119	2021
119E	NVS
120	2023
121	NVS
122	NVS
123	NVS
124	NVS
125	NVS

Pole No.	2015 Code
126	NVS
127	2022
128	NVS
129	NVS
130	NVS
131	NVS
132	2021(O/F)
133	2021(O/F)
134	NVS
135	NVS
136	NVS
137	NVS
138	NVS
139	VS
140	NVS
141	NVS
142	VS
143	VS
144	VS
145	2022
146	VS
147	2022
148	NVS
148A	NVS
149	NVS
149A	2021 (OF)
150	NVS
150A	2023
151	VS
151A	VS
152	VS
152A	VS
153	VS
153A	2023
154	2023
154A	NVS
155	NVS
155A	NVS
156	VS
156A	2023
157	2023
158	2023
159	2023
160	2021 Climb

Appendix 1 cont.

Pole No.	2015 Code
161	2021 Climb
162	VS
163	NVS
164	NVS
165	NVS
166	NVS
167	NVS
168	NVS
168A	NVS
169	NVS
169A	NVS
170	NVS
171	NVS
172	NVS
172A	NVS
173	NVS
174	NVS
175	NVS
176	NVS
177	NVS
178	NVS
179	NVS
180	NVS
181	NVS
182	NVS
183	NVS
184	NVS
185	NVS
186	NVS
187	NVS
188	NVS
189	NVS
190	NVS
191	NVS
192	NVS
193	NVS
194	NVS
195	NVS
196	NVS
197	NVS
198	NVS
199	NVS
200	NVS
201	NVS

Pole No.	2015 Code
202	NVS
202A	NVS
203	NVS
204	NVS
205	2021Climb
206	NVS
207	VS
208	NVS
209	2021 Pine
210	2022
211	VS
212	NVS
213	NVS
214	NVS
215	NVS
216	NVS
217	NVS
218	NVS
219	NVS
220	VS
221	VS
222	NVS
223	NVS
224	NVS
225	VS
226	NVS
227	2021
228	2021
229	2021
230	NVS
231	VS
232	NVS
233	NVS
234	VS
235	2021 (OF)
236	VS
237	VS
238	VS
239	VS
240	VS
241	VS
242	VS
243	VS
244	VS

Pole No.	2015 Code
245	VS
246	VS
247	VS
248	VS
249	VS
250	NVS
251	VS
252	VS
253	VS
254	VS
255	NVS
256	VS
257	VS
258	VS
259	NVS
260	VS
261	VS
262	VS
263	VS
264	VS
265	NVS
266	NVS
267	NVS
268	NVS
269	VS
270	NVS
271	VS
272	NVS
273	VS
274	NVS
275	NVS
276	NVS
277	NVS
278	NVS
279	NVS
280	NVS
281	VS
282	VS
283	VS
284	VS
285	VS
286	NVS
287	NVS
288	NVS

Pole No.	2015 Code
289	NVS
289A	2020(O/F)
290	VS
291	VS
292	NVS
292A	NVS
293	NVS
294	VS
295	NVS
296	NVS
297	NVS
298	VS
299	2020(O/F)
300	2021
301	VS
302	NVS
303	NVS
304	NVS
305	NVS
306	NVS
307	NVS
308	NVS
309	NVS
310	NVS
311	2020 (OF)
312	NVS
313	NVS
314	NVS
315	NVS
316	NVS
317	NVS
318	VS
319	2022
320	VS
321	VS
322	NVS
323	NVS
324	NVS
325	NVS
326	NVS
327	NVS
328	2023
329	NVS
330	NVS

Appendix 1 cont.

Pole No.	2015 Code
331	NVS
332	NVS
333	NVS
334	NVS
335	NVS
336	NVS
337	NVS
338	NVS
339	NVS
340	NVS
341	NVS
342	NVS
343	NVS
344	NVS
345	NVS
346	NVS
347	NVS
348	NVS
349	NVS
350	NVS
351	NVS
352	NVS
353	NVS
354	NVS
355	NVS
356	VS
357	NVS
358	NVS
359	NVS
360	NVS
361	NVS
362	NVS
363	NVS
364	NVS
365	NVS
366	NVS
367	NVS
368	NVS
369	NVS
370	NVS
371	NVS
372	NVS
373	NVS
374	NVS

Pole No.	2015 Code
375	NVS
376	NVS
377	NVS
378	2022
379	2022
380	NVS
381	NVS
382	2022
383	VS
384	NVS
384A	NVS
385	NVS
386	NVS
387	NVS
388	NVS
389	NVS
390	NVS
391	NVS
392	NVS
393	NVS
394	NVS
395	NVS
396	VS
397	NVS
398	NVS

Appendix 2

2018 Portland Cape Nelson South

Pole No.	2015 Code
1A	NVS
1B	NVS
2	NVS
3	NVS
4	NVS
5	NVS
6	NVS
7	NVS
8	NVS
9	NVS
10	VS
11	NVS
12	NVS
13	NVS
14	NVS
15	NVS
16	NVS
17	vs
18	NVS
19	NVS
20	NVS
21	NVS
22	NVS
23	NVS
24	NVS
25	NVS
26	NVS
27	NVS
28	NVS
29	VS
30	NVS
31	NVS
32	NVS
33	NVS
34	NVS

Pole No.	2015 Code
35	NVS
36	NVS
37	NVS
38	NVS
39	NVS
40	NVS
41	NVS
42	NVS
43	VS
44	NVS
45	NVS
46	NVS
47	NVS
48	NVS
49	NVS
50	NVS
51	NVS
52	NVS
53	NVS
54	NVS
55	NVS
56	NVS
57	NVS
58	NVS
59	VS
60	NVS
61	NVS
62	VS
63	NVS
64	NVS
65	NVS
66	NVS
67	NVS
68	NVS
69	NVS

Pole No.	2015 Code
70	NVS
71	NVS
72	NVS
73	NVS
74	NVS
75	vs
76	NVS
77	NVS
78	NVS
79	2021
80	2021
81	NVS