



ELECTRIC LINE CLEARANCE VEGETATION MANAGEMENT PLAN 2022 – 2023

**Applicable to the Declared Area for the
Township of Beechworth**

**Version Control
ISCELCMP 22/23 v2**

Draft	Document date	Distributed	Authorised by	Project Officer
<i>Final</i>	<i>22/05/2023</i>	<i>5/06/2023</i>		<i>Brett Direen</i>
<i>Reviewed</i>	<i>22/05/2023</i>	<i>5/06/2023</i>		<i>Brett Direen</i>
<i>J:\Infrastructure Services\Operations\Tree Management\Electric Line Clearance\Management Plans\</i>				

Disclaimer

This Electric Line Clearance Management Plan ('Plan or ELCMP') has been developed by the Indigo Shire Council to inform Indigo Shire Council (Council), Energy Distribution Businesses (DB's) and all other interested parties about the vegetation management processes and strategies undertaken by the Indigo Shire Council to care for its trees that are in the vicinity of electricity assets. This Plan is to satisfy the requirements of the Electricity Safety (Electric Line Clearance) Regulations 2020 (Vic).

Indigo Shire Council notifies users of this Plan that some of the content/statements made in this Plan are based on assumptions, estimates, predictions and projections made as part of the Indigo Shire Council's Tree Management planning/development process and some of the content/statements are based on actions that the Indigo Shire Council intends to take in the future. The Indigo Shire Council may decide to take different actions to those it currently intends to take if circumstances change or assumptions and estimates prove to be inaccurate and events do not occur as predicted or projected. The users of this Plan accept responsibility and all risk for using material in this document. The users should seek expert advice in relation to their own circumstances and must rely solely on their own judgement and expert advice obtained.

The Indigo Shire Council including its Panel Consultants does not guarantee and will not be liable for, whether in contract, tort (including negligence), equity or otherwise, to compensate or indemnify any person for any loss, injury or damage arising directly or indirectly from any person using, or relying on any content/statements in this Plan.

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STRUCTURE OF PLAN

The Management Plan has been structured to align with the relevant clauses of the Regulations.

The corresponding section of the Plan is numbered identically to the section of the Regulations to allow for cross referencing.

DISTRIBUTION BUSINESSES

The names and contact details for the Distribution Businesses that operate within the Indigo Shire Council are:

Ausnet Services

William Few,

ORP Liaison Officer

Email: William.Few@select-solutions.com.au

PART 2 SECTION9 PREPARATION OF A MANAGEMENT PLAN

9(2) PREPARATION OF A MANAGEMENT PLAN BY MARCH 31ST

Indigo Shire Council is a Responsible Person required to prepare an Electric Line Clearance Management Plan for the purpose of the Regulations. This document is prepared in accordance with Section 9 of the Regulations.

The implementation and review of the Plan is part of Council's strategic reporting framework and is reported within the Business Unit's Works Quarterly Report.

- Council will conduct a review by the March 31st annually.
- Approval of the new Plan will be completed in March with the approved Plan replacing the old Plan on Council's public website on July 1st annually.
- A complete review of the Plan will also be implemented should there be a change of Contractor or Contract methodology. This review could occur at any time.
- The Plan and the requirement to comply with the Plan will be brought to the attention of Council's contractors annually at the monthly contract meeting following the review.
- The Plan and the requirement to comply with the Plan will be brought to the attention of relevant Council personnel following each annual review.

10(7)(A) & (B) REQUIREMENTS

The Plan is stored in Council's document management system, which provides version control, and will be available on request by ESV and for review on the Council's website at www.indigoshire.vic.gov.au and at the Council's Offices as named in 9(3)(c) during normal business hours.

No exemptions are in operation and therefore none are required to be displayed. Council reviews the Electric Line Clearance Management Plan prior to the March 31st deadline each year to confirm compliance requirements and the status of the Plan's implementation. Such reviews will be recorded and reported to Council's Authorising Officer.

9(3) MANAGEMENT PLAN REQUIREMENTS

9(3)(a) NAME, ADDRESS AND TELEPHONE NUMBER OF THE RESPONSIBLE PERSON:

Name: Trevor Ierino, CEO, Indigo Shire Council

Electronic signature



Address: 2 Kurrajong Way, Mayday Hills, Beechworth VIC 3747

Telephone Number: 03 5728 8000

Facsimile Number: 03 5728 1676

9(3)(b) NAME, POSITION, ADDRESS AND TELEPHONE NUMBER OF THE PERSON WHO WAS RESPONSIBLE FOR THE PREPARATION OF THE PLAN:

Name: Brett Direen

Position: Manager, Municipal Operations

Address: 2 Kurrajong Way, Mayday Hills, Beechworth VIC 3747

Telephone Number: 03 5728 8000

Facsimile Number: 03 5728 1676

9(3)(c) NAME, POSITION, ADDRESS AND TELEPHONE NUMBER OF THE PERSONS WHO ARE RESPONSIBLE FOR CARRYING OUT THE PLAN:

Name: Tom Fahy

Position: Coordinator Trees and Parks

Address: 2 Kurrajong Way, Mayday Hills, Beechworth VIC 3747

Telephone Number: 03 5728 8000

Facsimile Number: 03 5728 1676

9(3)(d) THE TELEPHONE NUMBER OF A PERSON WHO CAN BE CONTACTED IN AN EMERGENCY THAT REQUIRES CLEARANCE OF AN ELECTRIC LINE THAT THE RESPONSIBLE PERSON IS REQUIRED TO KEEP CLEAR OF TREES OR PARTS OF TREES.

Name: Brett Direen

Emergency Telephone No.: 0437 647 781

Name: **Indigo Shire – Emergency Response Number**

Telephone No: 03 5728 8000

Emergency Telephone No: 0448321386 AH

9(3)(e) THE OBJECTIVES OF THE PLAN:

The following are identified as the key objectives of this Plan:

- To ensure public safety at all times in relation to fire risk, human injury and continuity of supply resulting from the contact between power lines and vegetation.
- Council employees and contractors will aim to ensure Electricity Safety.
- To achieve compliance with the Electricity Safety Act 1998 and the Electricity Safety (Electric Line Clearance) Regulations 2020 and the incorporated Code of Practice.
- In the unlikely event that compliance cannot be readily achieved by pruning, Council will implement a documented process of 6-monthly inspections on these trees while developing an alternative engineering solution in conjunction with the Distribution Business.
- To ensure protection of areas of important local and significant vegetation throughout the Council's Declared Area. This protection includes, but is not limited to, sites containing botanically, historically, or culturally important vegetation, or vegetation of outstanding aesthetic or ecological significance, and/or the habitat of rare or endangered species.
- Establishing an open dialogue with relevant distribution company(s) vegetation management group to ensure both parties have a clear understanding of each other priorities. This will be achieved through an annual meeting with relevant distribution company(s) managers and Indigo Shire's responsible employee.
- To ensure effective management of vegetation to maximise the amenity value of the city's trees and ensure shading of pathways is continually increased to encourage physical activity in the community.
- To ensure provision of a safe working place for employees and contractors undertaking vegetation clearance pruning and any employee or contractors who conduct other maintenance vegetation works within the vicinity of powerlines.
- To ensure community satisfaction with the way the necessary works are carried out.
- To ensure a standard and practices to protect the health of trees that require cutting in accordance with the code.

Compliance with these objectives is measured by an ongoing process of auditing and Contract performance monitoring as detailed in the relevant sections of this Plan.

9(3)(f) THE LAND TO WHICH THE MANAGEMENT PLAN APPLIES TO - MAPS

Indigo Shire comprises a geographical area of 2,040km² and the population in excess of 16,000.

The Declared Area that is the responsibility of Indigo Shire Council comprises the area of the township of Beechworth. The land use for this area is classified mainly as residential with some industry.

There are approximately 915 trees that are situated within the vicinity of electric lines. Council's public open space reserves and parks have very few electric lines that traverse through them therefore only very few trees that could impact the power lines.

The majority of the urban area of Beechworth is Declared Area and this is shown on the plan included in Appendix 1 of this document.

The majority of the Declared Area managed by Council is rated Low Bushfire Risk (LBRA) based on the CFA Victorian Fire Risk Register.

The HBRA areas have been reviewed and overhead powerlines are present in the following locations –

- Kerferd Rd
- Buckland Gap Road
- Fletcher Rd
- Malakoff Rd
- High St
- Church St
- Last St
- Finch St
- Albert Rd
- Kars St
- Wood St
- Sydney Rd
- Beaumont Drive
- Bridge Rd
- Mellish St
- Balaclava Rd
- Drew Court
- Junction St
- Camp St
- Harper Ave
- Gilchrist Ave
- Lower Stanley Rd

There are approximately 334 trees are underneath HBRA.

Council representatives meet quarterly with CFA and DELWP as part of the Municipal Fire Management and Planning Committee. Any amendments to the boundary or Hazardous Bushfire Risk Areas (HBRA) are discussed at these meetings.

9(3)(g) EACH AREA THAT THE RESPONSIBLE PERSON KNOWS CONTAINS A TREE THAT THE RESPONSIBLE PERSON MAY NEED TO CUT OR REMOVE TO ENSURE COMPLIANCE WITH THE CODE AND THAT IS –

(i) Native

For the purposes of this Plan, Native vegetation is taken to mean species locally indigenous to the Council area and does not include commercial and ornamental Australian native species, which are commonly planted as street trees.

The streetscapes within the declared area of Beechworth comprise primarily exotic trees in the vicinity of the Electric Lines. The main tree types are plotted in the Beechworth Tree Zone Maps (2009) which can be found in the ISC-Tree Management Plan 2010: <https://www.indigoshire.vic.gov.au/Living-in-Indigo/Environment/Street-trees> then select the link to Tree Management Plan.

The unique historical and heritage characteristics of Beechworth give rise to a high visibility factor and as such the aesthetic profile of the existing trees, most notably Elm, Poplar and Oak species are a local feature. None of the other areas of significance nominated above currently affect the management of the street trees in Beechworth.

The ELC Tree Inspection Report form is completed each year by a qualified Arborist.

As there has been as long-term and ongoing powerline clearance program around existing native trees, there are no known native trees that will be adversely affected by future works.

(ii) Listed in planning scheme to be of ecological, historical, or aesthetic significance

The ISC planning scheme overlays and ordinances does not require a permit to keep the whole part or any part of a tree clear of an electric line provided the action is carried out.

Tree controls do not apply within any site listed in the Schedule to the Heritage Overlay.

By their nature, these types of vegetation do not change quickly in normal circumstances. Council will review the resources listed in 9(3)(g) i and ii on a 5-yearly basis when this Plan is revised as described in 9(2).

(iii) Trees of cultural or environmental significance

Trees of Cultural or Environmental Significance for the purposes of the Plan are defined as any tree protected as Significant or Heritage by relevant State legislation or local planning controls. Based on the historical annual line clearance program, there are no identified areas of special or cultural vegetation identified in the Declared Area that will be affected by electric line clearance.

The Indigo Shire Council has vegetation controls within the Planning Scheme, namely the Heritage and Environmental Overlays.

Tree controls do not apply within any site listed in the Schedule to the Heritage Overlay.

By their nature, these types of vegetation do not change quickly in normal circumstances. Council will review the Planning Scheme and consult with Council's Planning Department to identify any changes in State controls when this Plan is revised as described in 9(2). The amended Plan and any changes as a result of this briefing will be raised with Council's contractors at the monthly contract meetings.

9(3) (h) The means which the responsible person is required to use to identify a tree specified in paragraph (g)9(3)(g)

Special trees, such as significant or habitat trees, are recorded in Council's tree management system, where it is readily identifiable by personnel undertaking assessment and pruning under this Plan. As there has been an ongoing powerline clearance program around existing trees, there are no known trees from clause 9(3)(g) that will be significantly adversely affected by future powerline clearance works.

Additional resources available to identify significant native trees are -

- a. Reference to the Heritage Register as per the meaning of the Heritage Act 1995. <http://vhd.heritagecouncil.vic.gov.au/>
- b. Reference to the National Trust Register and regular communication with the Local History Officer. <http://trusttrees.org.au/>
- c. Reference to the Victorian Aboriginal Heritage Register as established under section 144 of the Aboriginal Heritage Act 2006. <http://www.vic.gov.au/aboriginalvictoria/heritage.html>
- d. Reference to flora or habitat of fauna listed as threatened in accordance with section 10 of the Flora and Fauna Guarantee Act 1988. <http://maps.biodiversity.vic.gov.au/viewer/?viewer=NatureKit>
- e. Reference to the Threatened Flora, Invertebrate and Vertebrate Lists as published by the relevant State department. <https://www.environment.vic.gov.au/conserving-threatened-species/threatened-species-advisory-lists>
- f. Flora and Fauna Guarantee Act 1988 <http://www.legislation.vic.gov.au/>

Council will review each of these resources annually.

In February each year as part of the annual review of this Plan, Council's Manager of Municipal Operations will brief the person responsible for the preparation of the Plan on changes to native vegetation mapping, controls and other relevant matters. The amended Plan and any changes as a result of this briefing will be raised with Council's contractors at the contract meetings.

Council will notify ELC personnel of any trees in the declared area that are:

- native trees
- trees listed in a planning scheme to be of ecological, historical or aesthetic significance
- trees of cultural or environmental significance

Council will do this through provision of a map and spreadsheet demonstrating the location and detail of these trees as part of the contract induction.

9 (3)(i) THE MANAGEMENT PROCEDURES THAT THE RESPONSIBLE PERSON IS REQUIRED TO ADOPT TO ENSURE COMPLIANCE WITH THE CODE

- (i) Include details of the methods to be adopted for managing trees and maintaining a minimum clearance space as required by the Code:

Identification of Work Required

Indigo Shire Council awards an annual contract for the works of providing tree clearance in accordance with the ELCMP, the relevant Code, Pruning of Amenity Trees Australian Standard AS4373-2007 and General Conditions of Contract AS2124-1992. The contract is tendered in the winter months around June each year so that selection allows the clearance to be completed just as the trees are actively leafing out. This timing provides the clearest access to vegetation and least disruption to the growth cycle of the trees.

Assessment and pruning of all Council trees in the vicinity of powerlines in the HBRA will be completed before the declaration of the fire season each year. An inspection of the entire declared area by the Council's Manager Municipal Operations in company with the Contractor qualified Arborist is undertaken annually, usually in April at the later stages of the growth season. In that inspection, trees which are in breach of the Code will be identified. In addition, any trees which are determined to likely breach the Code in the next twelve months are also to be identified. This inspection should also include the identification of any hazards outside the clearance and regrowth spaces that may require correction. This inspection is included as a scheduled item in the annual clearance contract for Indigo Shire.

Annual Tree Programs	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Tree Audits/Inspections												
HBRA Assessment												
Powerline Clearance									HBRA if required			

The Contractor shall be responsible for maintaining clearances between AusNet Services overhead distribution (22kV and LV) and sub-transmission (66 kV) lines

and vegetation. This may involve; pruning, trimming, hogging of small branches, removal/disposal of debris and cleaning up of sites on completion of work.

Each inspection is fully documented on the Indigo Shire declared area register of trees, identified by species, street number and name and individual vegetation characteristics. The non-conformities are noted, and a record of the inspection is maintained by the responsible person.

In making the risk evaluations and before deciding on the most appropriate method, due consideration is given to the site's specifics, including:

- minimum clearances as prescribed in Schedule 1, Part 3, Division 1 and the charts in Schedule 2 of the Code.
- expected regrowth rate of the tree species.
- the significance of the site as a natural habitat of endangered species of both flora and fauna.
- the significance and public value of the site's aesthetics.
- the impact on the tree's amenity and utility value if subjected to pruning versus removal.
- opportunity to replace with a more suitable species based on the preferred species list.
- the environmental impact of proposed works.
- determining the most appropriate method of actioning the non-compliant vegetation.
- appropriate planning and scheduling.
- identification and quantification of equipment and accredited personnel required.
- funding.
- community and customer consultation.

Trees that the Assessor believes cannot be successfully pruned in accordance with the Electricity Safety (Electric Line Clearance) Regulations 2020 will be brought to the attention of Manager. The Manager will then inspect the tree and if they believe the tree cannot be pruned to comply with the Code, Council will investigate and implement an alternative method to ensure safety and continuity of supply.

The Assessor will also assess –

- the voltage and length of the span visually to determine the correct Applicable Distance for clearance for the middle 2/3 of each span. Longer span lengths will be verified using laser measurement or aerial photography.
- the species of the vegetation to ascertain the regrowth potential
- the tree for any other potential hazards.

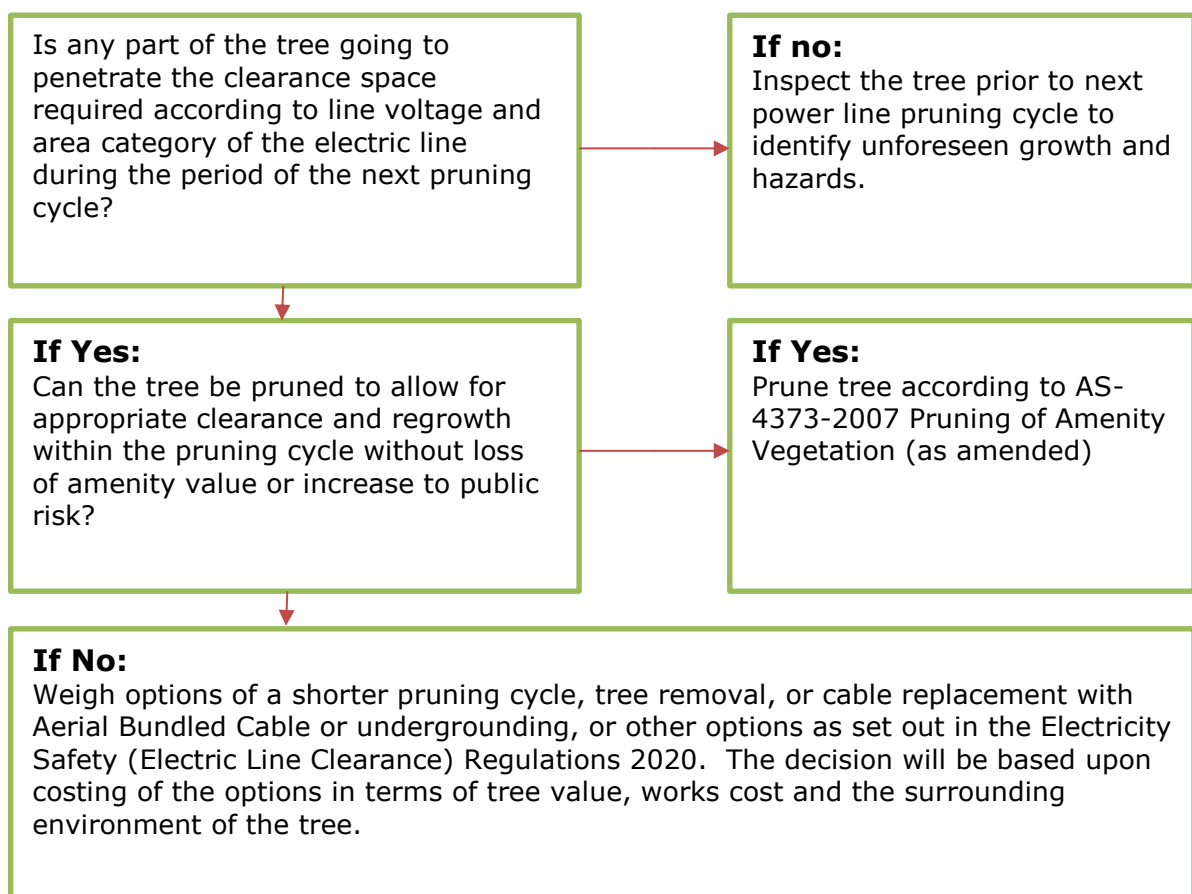
In addition, any trees that are determined to be likely to breach the Code within the inspection cycle are also to be identified. This inspection also includes the identification of any hazards outside the clearance and regrowth spaces that may require assessment or correction. Non-compliant trees shall be recorded in the audit report.

Hazardous trees identified during these routine inspections are programmed for pruning or removal and scheduled according to their hazard potential.

Reports of non-compliance from relevant distribution company(s), residents or other sources will be investigated by a suitably qualified Council employee. Once the investigation has been completed Council will carry out any pruning action to rectify a confirmed non-compliance.

Where the non-compliance is caused by unanticipated regrowth, the species and growing conditions will be identified to determine if this is likely to occur again, or with other trees in the vicinity of powerlines. Appropriate inspection regimes will be implemented to address any identified issues.

Clearance Cycle



Assessment of Regrowth Space

The Council Arborist will observe and record the rate of growth of species under the growing conditions, which prevail in the Municipality and apply these observations when determining the extent and frequency of pruning.

Council's Operations Department has a list of more suitable species for planting under powerlines that is used to guide planting programs.

As part of the inspection of the Declared Area, the amount of clearance achieved during pruning is assessed to determine its suitability to the required clearance. Analysis of the clearance achieved is assessed in conjunction with such factors as

species and soil type and rainfall rates to provide additional information on the adequacy of clearing cycles and clearances.

The responsible person assessing the vegetation will have a minimum qualification of AQF Level IV in arboriculture; this will ensure the assessor has basic knowledge in tree physiology and biology of the common species in the municipality.

Utilising this knowledge, the assessor will monitor the amount of regrowth for each species pruned. Tree pruning frequencies depending on the significance of the tree will be adjusted in light of these observed growth rates to achieve compliance with the Code. The formula used to calculate the amount of vegetation to be removed is

Clearance (m) = regrowth (m/year) X cycle (1 year)

Examples of this formula -

Melaleuca linariifolia

- regrowth 30cm per annum X 1 year = 30cm clear of the Clearance Space

Angophora costata

- regrowth 80cm per annum X 1 year = 80cm clear of the Clearance Space

Fraxinus Raywood

- regrowth 120cm per annum X 1 year = 120cm clear of the Clearance Space

Pruning to maintain the Clearance Space

Clearance pruning is undertaken by suitably qualified and trained Council personnel.

Hazardous trees identified during these routine inspections are programmed for pruning or removal and scheduled for according to their hazard potential.

All pruning works will be undertaken in accordance with industry Best Practice methods. Detailed assessment of the specific pruning requirements of each tree will be assessed and recorded during the initial inspection. Council's crew or contractor will be directed to prune each tree in accordance with the work instructions issued by Council. The regrowth space required beyond the minimum recommended clearance space detailed within the Code will be forecast in accordance with species type, local conditions and pruning frequency.

Contractors and other staff working on behalf of Council shall at all times comply with the safe approach distances contained in The Electricity Safety (General) Regulations 2019. Council acknowledges its role of supervising staff and contractors to ensure that work is performed safely and consistently with the Regulations.

In the event that the safe approach distances cannot be maintained at any time work shall cease immediately and advice from the relevant power authority will be sought. This may involve shutdown or the use of live line workers with suppression of the auto reclose system.

As part of its normal contract reporting, Council will ensure that the Contractor has appropriately trained and inducted its employees into these requirements.

Alternative methods that may be adopted to maintain the clearance space

In the unlikely event that compliance cannot be readily achieved by pruning, Council will implement a documented process of 6-monthly risk assessments on these trees while developing an alternative engineering solution in conjunction with the Distribution Business.

Where a significant tree is to be severely affected, or an affected person objects to the pruning or clearing of vegetation near powerlines, Council Officers will consult with the affected person to determine alternatives, such as removal and replanting with suitable species or alternative pruning methods. Where an affected person requests the relocation or provision of alternate services such as aerial bundle conductor, Council will refer the matter to the distribution company for further consideration.

Council may undertake a cost benefit analysis on a case by case basis where vegetation significance or public need dictates an alternative course should be pursued.

The following alternative methods may be adopted for maintaining clearance if a person objects to the methods proposed by Council:

- Reduced pruning cycle
- Removal/Replacement with suitable species
- Use of Aerial Bundled Cable
- Powerlines to be re-routed
- Undergrounding of powerlines
- Other engineering solutions

ii Specify the method for determining an additional distance that allows for cable sag and sway

Council will maintain minimum clearances in compliance with the clearance graphs in Schedule 2 of the Code (graphs 1, 2, 3 & 4 (LBRA) and 5 & 6 (HBRA)). These are included in Appendix 4.

In the Declared Area uninsulated spans over 100m in LBRA or 45m in HBRA in length will require additional allowance for sag and sway. The number of spans affected is likely to be minimal and will be assessed and recorded in Council's records for future reference. Where a span requiring additional allowance for sag and sway is identified the sag and sway allowances provided by the Distribution Business will be applied.

Council will liaise with the Distribution Business to identify any Uninsulated spans over 100m in LBRA or 45m in HBRA in length where sag and sway allowances will be required and make a map and list of these spans available to all relevant personnel and contractors. Council aims to complete this by the 2023 review of the Plan. Where the distribution business does not provide the required assistance, Council will liaise with ESV to resolve the issue.

9(3)(j) THE PROCEDURES TO BE ADOPTED IF IT IS NOT PRACTICABLE TO COMPLY WITH THE REQUIREMENTS OF AS 4373 WHILE CUTTING A TREE IN ACCORDANCE WITH THE CODE.

Conformance with AS4373-2007 *Pruning of amenity trees* (AS4373) requires observation of several factors when undertaking pruning.

These factors include

- Formative pruning of young trees
 - This is a critical requirement for trees under powerlines to develop canopy shapes that can be managed for Compliance when the tree matures.
- The amount and distribution of canopy removed
 - This is dictated by the Compliance requirements
 - The amount of canopy removed shall be the least amount required to achieve and maintain compliance, or to manage the tree in line with Clause 9(3)(i)(i) of this Plan and the canopy will be shaped to create a weight and canopy distribution as close to normal as possible.
- The size of the limb to which the pruning cut is made
- The angle of the final pruning cut

Council acknowledges that conformance with AS4373, especially in relation to the final pruning cut, cannot always be achieved when undertaking powerline pruning safely. Council requires that pruning conforms to AS4373 whenever safe to do so while also ensuring:

- safe approach distances are maintained
- a safe work environment when working at heights
- minimum clearance is achieved
- an affordable level of productivity.

In order to achieve pruning of acceptable quality, all pruning personnel, either Council employees or contractors, must have the following as a minimum –

- Formal training as outlined in 9(O) that incorporates modern tree pruning practices including awareness of AS4373 and natural target pruning principles.
- Project induction including awareness training in the Code of Practice and this Management Plan.

As part of Council's normal contract management processes, pruning quality will be assessed and poor performance will be identified based on the standards in 9(3)(n). Normal contract management processes will be used to address poor performance, including contract meetings, increased compliance audits, remedial training and, where necessary, application of contract non-conformance penalties.

9(3)(k) A DESCRIPTION OF EACH ALTERNATIVE COMPLIANCE MECHANISM IN RESPECT OF WHICH THE RESPONSIBLE PERSON HAS APPLIED, OR PROPOSES TO APPLY, FOR APPROVAL UNDER CLAUSE 31 OF THE CODE.

Council does not intend to apply for any alternative compliance mechanisms at the time of preparation of this Plan.

9(3)(L)(I) The details of each approval for an alternative compliance mechanism that the responsible person holds

Council does not intend to apply for any alternative compliance mechanisms at the time of preparation of this Plan.

9(3)(L)(II) THE details of each approval for an alternative compliance mechanism that is in effect

Council does not intend to apply for any alternative compliance mechanisms at the time of preparation of this Plan.

9.(3)(M) A DESCRIPTION OF THE MEASUREMENTS THAT MUST BE USED TO ASSESS THE PERFORMANCE OF THE RESPONSIBLE PERSON UNDER THE MANAGEMENT PLAN:

The following criteria will be used to assess Council’s performance under this Plan:

Criteria	Measurement method	KPIs
Overall compliance with the Code	<ul style="list-style-type: none"> Number of trees found in breach of the Code during the annual survey 	<ul style="list-style-type: none"> Achieve a year on year reduction in identified breaches
Completion of the annual inspection and pruning program	<ul style="list-style-type: none"> Assessment records Audit 	<ul style="list-style-type: none"> 100% on-time completion of program
Minimisation of fire risk and maintain continuity of supply through compliance with the Code	<ul style="list-style-type: none"> Records of annual inspection of Exceptions (if necessary) recorded in works management system Number of business cases developed for alternative approaches to normal pruning 	<ul style="list-style-type: none"> 100% on-time completion of reporting
Safety of public and workers	<ul style="list-style-type: none"> Incident reports 	<ul style="list-style-type: none">
Quality of Work (Pruning Techniques)	<ul style="list-style-type: none"> Audit of staff qualifications and training 	<ul style="list-style-type: none"> No reportable incidents
Documentation & Notification of Works	<ul style="list-style-type: none"> Customer Requests System internal reports 	<ul style="list-style-type: none"> 100% completion of Contract benchmarks 100% Compliance with 9(3)(n) of this Plan
Number of complaints received regarding the pruning work	<ul style="list-style-type: none"> Customer Requests System internal reports 	<ul style="list-style-type: none"> 100% compliance with notification requirements
Number of substantiated notifications of breaches of the Code from DB	<ul style="list-style-type: none"> Reports received and actioned Recorded in works management system 	<ul style="list-style-type: none"> No year-on-year increase in requests received

Criteria	Measurement method	KPIs
Number of substantiated requests for pruning from residents	<ul style="list-style-type: none"> Customer Requests System internal reports 	<ul style="list-style-type: none"> No year-on-year increase in requests received

Records of the above will be kept at the Council Office for a minimum of 5 years.

Council's supervisory personnel responsible for implementing the relevant sections of the Plan are advised of the performance standards under the Plan at the annual briefing following the seasonal pruning program and these performance standards are assessed.

9(3)(n) DETAILS OF THE AUDIT PROCESSES THAT MUST BE USED TO DETERMINE THE RESPONSIBLE PERSON'S COMPLIANCE WITH THE CODE:

Council's Arborist coordinator conducts random audits of pruning works as each pruning cycle is completed based on the standards in this section to ensure that all requirements outlined in this Plan are being met and any non-conformity with the Code is identified and promptly resolved. Audits are recorded in Council's Tree Management system. Non-compliances identified in the audit will be rectified within 5 working days.

Council also commits to conducting up to 5 random audits during the ELC pruning process to capture compliance in relation to work site management / HSE and personnel qualifications and competency.

The audit results are discussed at the monthly team meetings and saved in Council's records system.

Where assistance is required by others such as the Distribution Business, then a consultation process shall be used to assist in attending to the non-compliance as soon as possible.

Following investigation of a non-compliance and the establishment of the cause, the importance of compliance with this Plan and the Code will be drawn to the attention of the persons concerned.

- On the first occasion they will be given verbal instruction and the incident recorded on file.
- If a second occasion occurs the notification shall be in writing, and the incident recorded on file.
- After a third occasion, the training program will be reviewed, and more serious action considered if it is the same offender.

External audits are completed by the contractor responsible for clearance pruning every year. The completed audit report will state the number of trees, location, degree of voltage and services that need to be pruned to maintain line clearance.

The report is then submitted to supervisor who then authorises for pruning works to commence.

All contractors or personnel undertaking line clearance pruning will be audited on the following criteria -

Statutory Clearance of Vegetation

100 % compliance

All trees pruned must comply with the clearance requirements as stipulated in the tender document and the current Code of Practice unless a specific management option has been approved for that tree, such as applying Clause 5 or 6 of the Code of Practice.

Council's objective is to achieve a 1-year cycle. If this clearance results in the aesthetics of the tree being dramatically altered, or the tree permanently damaged, the Manager must be notified. Arborist coordinator will then conduct a site inspection and make the final decision as to the correct clearance for the tree, or if removal is the only option.

Local Outcomes and Requirements

95 % compliance

No branches that have been pruned are to be left in the tree's canopy; these are commonly known as hangers.

Pruning Techniques

95% compliance

A minimum of 95% of final pruning cuts must be compliant with AS 4373 Pruning of amenity trees and best management practices on each tree pruned.

Site Condition

95 % compliance

All sites must be left tidy with no debris visible.

Record keeping

All records will be stored in Council's ROAM/UNITY system.

OHS

100% compliance

Any breach of OHS regulations or contractual requirements, including near misses, to be recorded and brought to the attention of Council immediately in the case of Lost Time Injury, and within 24 hours for all other incidents.

9(3)(O) THE QUALIFICATIONS AND EXPERIENCE THAT THE RESPONSIBLE PERSON MUST REQUIRE OF THE PERSONS WHO ARE TO CARRY OUT THE PRUNING OR REMOVAL OF TREES:

The Council shall ensure that all trees are pruned according to industry Best Practice as a minimum standard. They shall further ensure that all contractors and employees undertaking powerline clearance as Qualified Persons are appropriately qualified and trained and continue to undertake current annual refresher training and holding appropriate certificates for both themselves and their equipment that legally entitles them to undertake the work. A record of the sighting of these documents shall be kept by the Council and shall be updated annually.

The qualifications required by Council are identified in Appendix 3.

Council's Contractors must also follow the minimum distances specified in The Electricity Safety (General) Regulations 2019 when undertaking tree clearing works and comply with the Safe Approach Distances as outlined in the Blue Book. Notification of affected parties will also be undertaken as per the requirements of the Code.

All personnel undertaking pruning will be made aware of the pruning quality requirements in 9(3)(j) during worksite induction.

Contractors' or Council personnel found to not have the relevant training will be excluded from undertaking any work required by this Plan until all training is completed and verified by Council.

9 (3) (P) NOTIFICATION AND CONSULTATION PROCEDURES

Council understands the importance of providing notification of programmed tree pruning works to affected persons.

Council will make available the tree pruning programme to all residents which can be obtained on the Council website.

Council will place advertisements on its website, on relevant social media and in the local paper prior the trees being pruned in each area.

Notifications will be made no less than 14 and no more than 60 days prior to the commencement of works in the local newspaper, Council website and/or social media and Council newsletter.

In the event that works cannot be completed within the notification timeframe, notification will be repeated based on the amended program timeframe.

The typical form of notification is as follows -

ELECTRICAL WIRE CLEARANCE PROGRAM

Shire of Indigo is commencing its annual street tree pruning schedule to meet legislative requirements regarding proximity to overhead power lines.

There will be no disruption to power, however heavy equipment may be on site.

Works are expected to be completed by December.

For further information, please phone Municipal Operations Manager on (03) 5728 8000.

By maintaining the annual inspection and cutting program and allowing for growth for individual species no urgent pruning or clearing should be required. In the case of urgent cutting or removal being required, Council will ensure that the process identified under “Emergency Cutting and Pruning” is followed, in accordance with the requirements of the Code.

9(3)(Q) DISPUTE RESOLUTION PROCEDURES.

The following dispute resolution procedure is in place for internal and external disputes that may arise during the period of this plan.

a. Internal Dispute Resolution

The Council will resolve disputes with the Contractor on issues relating to the pruning of Council controlled trees in the declared area in accordance the General Conditions of Contract. The nominated arbiter under the General Conditions of Contract shall be:

Contact Officer: Trevor Ierino
Position: Chief Executive Officer
Address: 2 Kurrajong Way, Beechworth, 3747
Telephone: 03 5728 8000

Council may elect to use other General Conditions of Contract and the Executive Manager Assets is required to update the ELCMP if this occurs.

The dispute resolution process for Pruning Contractors is set out in the General Conditions of Contract AS2124-1992 – Clause 47. A sample copy cannot be included in the plan due to copyright laws.

b. External Dispute Resolution

For all external disputes between Council, property owners and other stakeholders (e.g. Distribution Businesses) the Council’s Complaint Handling Policy shall be followed and if unsuccessful in resolving the issue, the plaintiff will be referred to the Victorian Ombudsman.

A copy of Council’s Complaint Handling Policy can be viewed on Council’s website address below:

<https://www.indigoshire.vic.gov.au/About-your-Council/Council-documents/Policies/Complaint-Handling->

[Policy?BestBetMatch=complaint%20handling%20policy|242788bc-85fe-4e68-ae2a-7bcddaf40ffd|9793707a-0ac1-4c7b-bb5a-2a2b8b7b5cf2|en-AU](https://www.indigoshire.vic.gov.au/Policy?BestBetMatch=complaint%20handling%20policy|242788bc-85fe-4e68-ae2a-7bcddaf40ffd|9793707a-0ac1-4c7b-bb5a-2a2b8b7b5cf2|en-AU)

There are several methods of lodging a complaint with Indigo Shire Council and this can be viewed on Council's website address below.

<https://www.indigoshire.vic.gov.au/Have-your-say/Customer-Service/Make-a-complaint>

9(4) A method for determining and additional distance that allows for cable sag and sway may provide for different additional distances to be determined for different parts of a span of an electric line.

Covered under clause 9(3) (i) (ii).

10(7) The responsible must ensure that a copy of the management plan is:

a. Published on the responsible person's internet site.

The current version of the ELCMP is available for inspection on the Indigo Shire Council's website address:

<https://www.indigoshire.vic.gov.au/About-your-Council/Council-documents/Plans-and-strategies/Electric-Line-Clearance-Management-Plan>

Any revised version of the ELCMP is to be published on the Council internet site by 31 March each year.

The superseded ELCMP is to be removed from the internet site at this time.

b. Available for inspection at the responsible person's principle office in the State during normal business hours.

A current version of Council's "Electric Line Clearance Management Plan 2020-2021" is available on Council's website at www.indigoshire.vic.gov.au (use search bar) for inspection at any time. Hard copies can be made available upon request either at Council Offices or via email at info@indigoshire.vic.gov.au

The current version is to be available online by the 1st July each year.

The superseded ELCMP is to be removed from the website at this time.

PART 2 – CLEARANCE RESPONSIBILITIES

DIVISION 1 – ROLE OF RESPONSIBLE PERSONS

9(4) EXCEPTION TO MINIMUM CLEARANCE SPACE FOR STRUCTURAL BRANCHES AROUND INSULATED LOW VOLTAGE ELECTRIC LINES

Council does not apply currently this exception.

9(5) EXCEPTION TO MINIMUM CLEARANCE SPACE FOR SMALL BRANCHES AROUND INSULATED LOW VOLTAGE ELECTRIC LINES

Council does not apply currently this exception.

9(6) EXCEPTION TO MINIMUM CLEARANCE SPACE FOR STRUCTURAL BRANCHES AROUND UNINSULATED LOW VOLTAGE ELECTRIC LINES IN LOW BUSHFIRE RISK AREAS

Council does not apply currently this exception.

(7) NOT APPLICABLE

(8) RESPONSIBLE PERSON MAY CUT OR REMOVE HAZARD TREE

Council will undertake emergency cutting and pruning activities of Hazard Trees.

For the purpose of this Plan, a hazard tree is a tree that

- has or is likely to fail and will contact an electric line if this occurs
- regrowth into clearance space before next scheduled visit
- vegetation in HBRA found in clearance after declaration

The identification of Hazard Trees is determined through Council's inspection program and is actioned under the urgent works provision.

During the inspection of the Declared Area, the Assessor will also inspect areas adjacent to the clearance space or regrowth space for trees that could become a hazard to the lines under adverse weather conditions.

In a situation where a tree is identified that is likely to fall onto or otherwise come into contact with an electric line, Council will assess the tree using a suitably qualified arborist (see Appendix 3).

In situations where the arborist's assessment confirms the likelihood of contact with the electric line having regard to foreseeable local conditions including weather and ground instability, Council will remove or cut the hazard tree as per the Code.

In the event of a hazard tree being identified as a culturally significant, environmentally significant or habitat tree, Council will where possible minimise the impact on the tree or fauna as previously outlined, to ensure compliance with the requirements of the code, the schedule to the code or to make an unsafe situation safe.

After undertaking the work, Council's Municipal Manager of Operations will be required to notify using form in Appendix 2.

- i. All affected persons and
- ii. The occupier of the land on which the tree was cut or removed and
- iii. If a tree was removed – the owner of the land on which the tree was removed

Records of all urgent works and completion of the notification requirement will be recorded in Council's Tree Management System.

- i. Where and when the cutting or removal was undertaken
- ii. Why the cutting or removal was required

- iii. The last inspection of the section of the electric line where the cutting or removal was required
- iv. All records will be filed at the Council office and kept for a minimum of 5 years.

The Electricity Safety Act 1998 (Victoria) Section 86B provides that a municipal council must specify, within its Municipal Fire Management Plan (MFMP):

- (a) procedures and criteria for the identification of trees that are likely to fall onto, or come into contact with, an electric line (**hazard trees**); and
- (b) procedures for the notification of responsible persons of trees that are hazard trees in relation to electric lines for which they are responsible.

Indigo Shires Municipal Fire Management Plan (MFMP) refers to this Electric Line Clearance Management Plan in relation to Hazard trees.

PART 2 – CLEARANCE RESPONSIBILITIES

DIVISION 2 – MANNER OF CUTTING AND REMOVING TREES

(9) SEE PART 1 9(3)(J)

(10) CUTTING OR REMOVAL OF:

- NATIVE TREES
- TREES LISTED IN A PLANNING SCHEME TO BE OF ECOLOGICAL, HISTORICAL OR AESTHETIC SIGNIFICANCE
- TREES OF CULTURAL OR ENVIRONMENTAL SIGNIFICANCE

MUST BE MINIMISED

Any works to be carried out on significant trees that require excessive pruning or trees that require removal in order to comply with the Code are reported to a suitably qualified Council arborist (see Appendix 3) who is familiar with Council's Planning Scheme to determine a suitable course of action to preserve the tree if cost-effective and safe to do so. This may include an increased inspection or pruning cycle.

All pruning will take place in accordance with industry Best Practice and where practicable, pruning may be undertaken using Elevated Work Platforms (EWPs) or other similar methods in an effort to minimise overall site damage. Council will as far as practicable, restrict cutting or removal of native trees or of cultural or environmental significance to the minimum extent necessary to ensure compliance with the requirements of the Code, the schedule to the Code or to make an unsafe situation safe.

Please see also 9(3) g and 9(3) h of this Plan.

(11) CUTTING OR REMOVING HABITAT FOR THREATENED FAUNA

There are no known trees of habitat significance for rare or endangered species listed in Council's Declared Area within the vicinity of electric lines that require pruning or clearing to ensure compliance with the Code of Practice. The presence of any previously unidentified tree of significance will be reviewed as part of the annual review of this Plan using the processes and resources outlined in 9(3)(g).

If a tree with or likely to contain habitat hollows, is identified by Council or its Contractors as being non-compliant, the tree will be individually assessed to ensure that pruning is minimised and the environmental value of the tree is preserved. This may include an increased inspection or pruning cycle. If Council intends to cut or, on the advice of a suitably qualified arborist (see Appendix 3), remove a tree that has been identified as habitat for fauna listed as -

- a) threatened in accordance with section 10 of the Flora and Fauna Guarantee Act 1988 or
- b) listed in the Threatened Invertebrate Fauna List with a conservation status in Victoria of "vulnerable", "endangered" or "critically endangered" or
- c) listed in the Threatened Vertebrate Fauna List with a conservation status in Victoria of "vulnerable", "endangered" or "critically endangered."

Council will undertake cutting or removal of the tree at a time when no eggs or young are present in any nest or hollow that would indicate the breeding season for that species. Where it is not practicable to undertake cutting or removal of the tree outside of the breeding season for that species, translocation of the fauna will be undertaken wherever practicable.

All records will be filed in Council's document management system and kept for a minimum of 5 years.

In exceptional circumstances, fauna may be required to be relocated. This is not Council's preferred option and will be used only as a last resort, for example, if the tree is assessed to be a hazard tree.

PART 2 – CLEARANCE RESPONSIBILITIES

DIVISION 3 – NOTIFICATION, CONSULTATION AND DISPUTE RESOLUTION

(16) RESPONSIBLE PERSON MUST PUBLISH NOTICE BEFORE CUTTING OR REMOVING CERTAIN TREES

Please see 9(3) p.

PART 2 – CLEARANCE RESPONSIBILITIES

DIVISION 4 – ADDITIONAL DUTIES OF RESPONSIBLE PERSONS

(20) DUTY RELATING TO THE SAFETY OF CUTTING OR REMOVAL OF TREES CLOSE TO AN ELECTRIC LINE

Where Council is unsure of the safety of pruning or removing a tree, they will consult with the relevant Distribution Business, or if the tree affects a railway supply line, the relevant Railway Operator, to develop an appropriate action plan to mitigate the hazard or bring the tree into compliance with the Code.

The contact details of the relevant organisations are provided at the beginning of this Plan.

PART 3 – MINIMUM CLEARANCE SPACES

DIVISION 2 - ALTERNATIVE COMPLIANCE MECHANISMS

(31) APPLICATION FOR APPROVAL OF ALTERNATIVE COMPLIANCE MECHANISM

Council is not and does not currently intend to use any alternative compliance mechanisms.

If Council should apply to Energy Safe Victoria for approval to use an alternative compliance mechanism in respect of a span of an electric line or a class of spans, the application will include details of:

- (i) the alternative compliance mechanism; and
- (ii) a written confirmation from the Distribution Business or alternative qualified provider that includes
 - a) the procedures to be adopted for commissioning, installing, operating, maintaining and decommissioning the alternative compliance mechanism; and
 - b) the published technical standards that will be complied with when commissioning, installing, operating, maintaining and decommissioning the alternative compliance mechanism; and
- (iii) the location of the span; or describe the class; and
- (iv) the minimum clearance space that the applicant proposes is to be applied in relation to the span, or class of spans, in respect of which the application is made; and
- (v) a copy of the formal safety assessment prepared by the Distribution Business or an alternative qualified provider under clause 32.
- (vi) a copy of the written agreement of the owner or the operator of the span; or the owner or the operator of each span that belongs to that class.

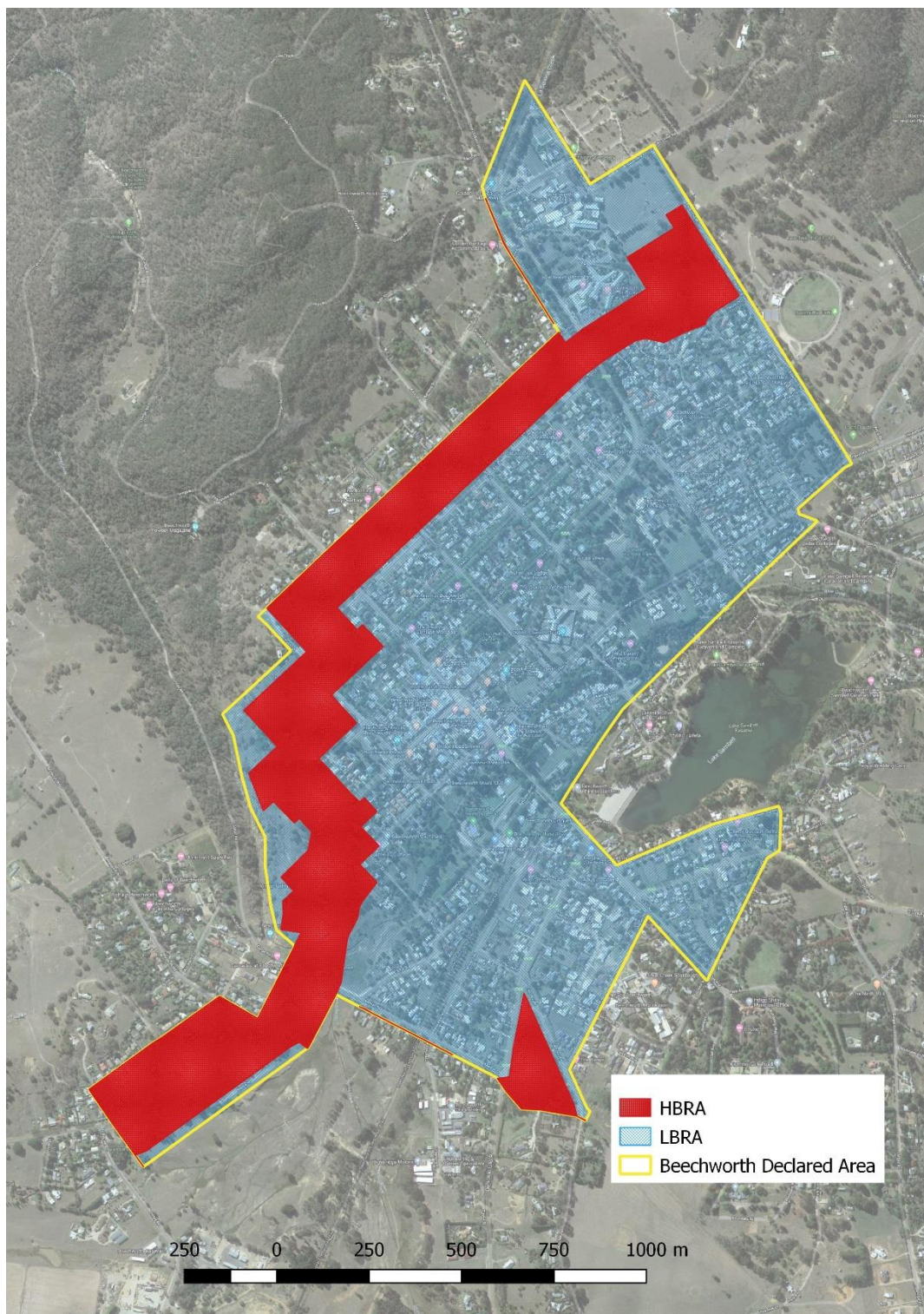
(32) FORMAL SAFETY ASSESSMENT OF ALTERNATIVE COMPLIANCE MECHANISM

Council is not and does not currently intend to use any alternative compliance mechanisms.

As Council Officers are not qualified to provide a formal safety assessment, this will be prepared by the Distribution Business or an alternative qualified provider and will comply with the requirements as defined in Schedule 1, part 3, Division 2, and Clause 1 of the Code.

APPENDIX 1 – DECLARED AREA MAP

The majority of the Declared Area managed by Council is rated Low Bushfire Risk (LBRA) based on the CFA Victorian Fire Risk Register. Red-shaded areas are HBRA. Blue-shaded areas are LBRA.



The HBRA areas have been reviewed and overhead powerlines are present in the following locations –

- Kerferd Rd
- Buckland Gap Road
- Fletcher Rd
- Malakoff Rd
- High St
- Church St
- Last St
- Finch St
- Albert Rd
- Kars St
- Wood St
- Sydney Rd
- Beaumont Drive
- Bridge Rd
- Mellish St
- Balaclava Rd
- Drew Court
- Junction St
- Camp St
- Harper Ave
- Gilchrist Ave
- Lower Stanley Rd

There are approximately 334 trees are underneath HBRA.

APPENDIX 2 - Notice of Urgent Cutting or Removal of Tree from unexpected regrowth or other reasons as per Clause 17 (2) (a), (b) and Clause 3 (a), (b), (c) of Electricity Safety (Electric Line Clearance) Regulations 2015



www.indigoshire.vic.gov.au

Ph: 1300 365 003

NOTICE OF URGENT TREE CUTTING OR REMOVAL

Dear Resident,

The tree adjacent to your property has required urgent pruning or removal to maintain electricity safety. The works have been undertaken in accordance with the Electricity Safety (Electric Line Clearance) Regulations 2015.

Address
Works reference #
Date of works

Reason for works Greater than expected regrowth
 Tree has fallen or been damaged
 An arborist has assessed the tree as an imminent risk of contacting the powerlines

If you have any queries about the works undertaken, please contact Council on 03 5728 8000.

Date Council Representative

APPENDIX 3 – Training Matrix for personnel working near powerlines

Indigo Shire Council identifies personnel training requirements and records of these are kept with the people in workplaces team.

Role	Qualification(s)	Licences/Training/Refresher
Tree worker Tree pruning and removal near powerlines	UET20312 Certificate II in ESI – Powerline Vegetation Control Certificate III Arboriculture or equivalent	<ul style="list-style-type: none"> • Safe Approach Distances – Vegetation Work • Safe Approach Distances to SWER • Provide cardiopulmonary resuscitation (HLTAID001) • Provide First Aid on and ESI environment (UETDTRRF10B) • Elevated Work Platforms High Risk Work Licence • Chipper competency • Chainsaw Level 1 certificate • Manual Handling Training • Noise Conservation • Sun Smart training • Heavy rigid truck licence • Construction Induction (white card) • NECCI Induction Card • Traffic management – Apply Traffic Control Plans • Traffic management – Select and modify Traffic Control Plans • Traffic management – Design and Modify Traffic Control Plans • Use elevated platform to cut vegetation above ground level near live electrical apparatus and, (UETDTRVC25A) • Apply pruning techniques to vegetation control near live electrical apparatus (UETDTRVC33A) • Current annual refresher training

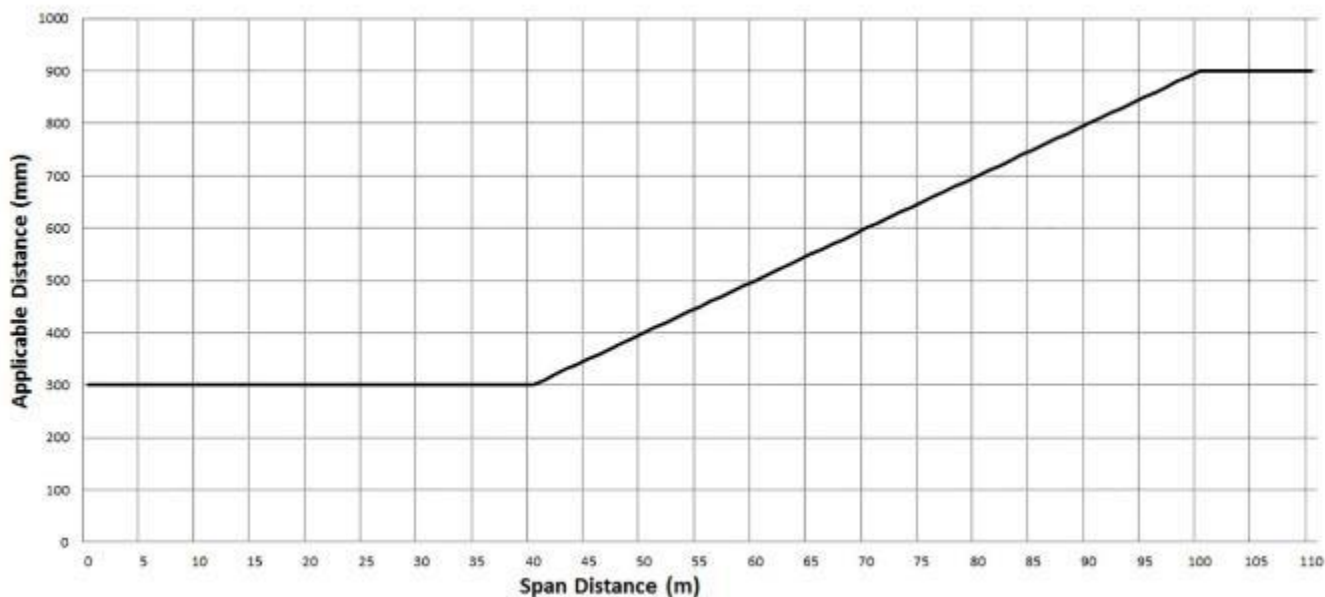
Role	Qualification(s)	Licences/Training/Refresher
Supervisor Tree pruning and removal near powerlines	UET20312 Certificate II in ESI – Powerline Vegetation Control Certificate III Arboriculture or equivalent	<ul style="list-style-type: none"> • Safe Approach Distances – Vegetation Work • Safe Approach Distances to SWER • Provide cardiopulmonary resuscitation (HLTAID001) • Provide First Aid on and ESI environment (UETTDRRF10B) • Elevated Work Platforms High Risk Work Licence • Chipper competency • Construction Induction (white card) • NECCI Induction Card • Chainsaw Level 1 certificate • Manual Handling Training • Noise Conservation • Sun Smart training • ROAM/UNITY computer software • Heavy rigid truck licence • Traffic management – Apply Traffic Control Plans • Traffic management – Select and modify Traffic Control Plans • Traffic management – Design and Modify Traffic Control Plans • Experienced and competent in the supervision of a large group of employees. • Use elevated platform to cut vegetation above ground level near live electrical apparatus and, (UETTDRVC25A) • Apply pruning techniques to vegetation control near live electrical apparatus (UETTDRVC33A) • Current annual refresher training
Arborist Line clearance assessment	Certificate III Arboriculture	<ul style="list-style-type: none"> • First Aid Level 2 certificate • Construction Induction (white card) • NECCI Induction Card • Sun Smart training • ROAM/UNITY computer software • Driver’s licence
Assessing Arborist (Suitably qualified arborist) Hazard tree and risk assessment	Certificate IV Arboriculture + Assess Trees Module or equivalent	<ul style="list-style-type: none"> • First Aid Level 2 certificate • Construction Induction (white card) • NECCI Induction Card • Sun Smart training • ROAM/UNITY computer software • Driver’s licence • 5 years industry experience

APPENDIX 4 – CLEARANCE TABLES

These tables and graphs are extracts from Schedule 2 the Electricity Safety (Electric Line Clearance) Regulations 2015 and are included for information. The Regulations are the primary source of this information and should be preferred.

GRAPH 1—INSULATED ELECTRIC LINES IN ALL AREAS

Clauses 3 and 24



Graph 1 Formula

The formula by which the applicable distance for the middle two thirds of a span of an electric line to which clause 24 applies is calculated is as follows:

For $0 < SD \leq 40$, $AD = 300$ mm

For $40 < SD \leq 100$, $AD = 300 + ((SD - 40) \times 10)$

For $100 < SD$, $AD = 900$ mm

Where:

SD = Span Distance

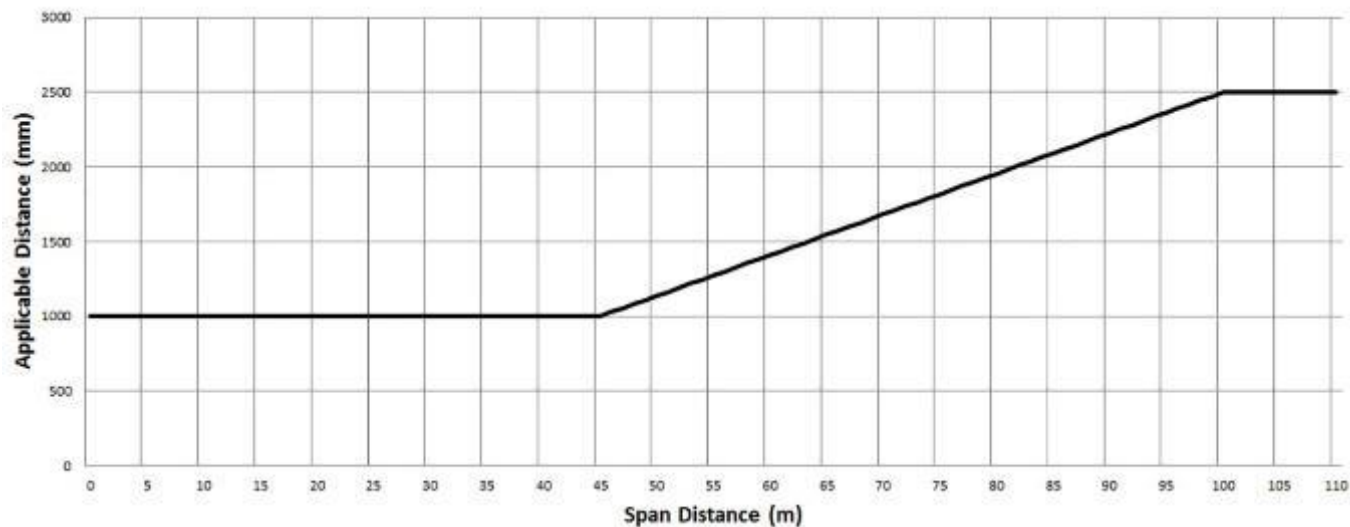
AD = Applicable Distance

Notes to Graph 1

- (1) The applicable distance includes allowances for sag and sway of the cable.
- (2) The minimum clearance space for a span of an electric line to which this Graph and clause 24 apply is partially illustrated in Figures 1, 2 and 3.
- (3) The applicable distance for the first and last sixths of a span of an electric line to which clause 24 applies is 300 millimetres.

GRAPH 2—UNINSULATED LOW VOLTAGE ELECTRIC LINE IN LOW BUSHFIRE RISK AREA

Clauses 3 and 25



Graph 2 Formula

The formula by which the applicable distance for the middle two thirds of a span of an electric line to which clause 25 applies is calculated is as follows:

For $0 < SD \leq 45$, $AD = 1000$ mm

For $45 < SD \leq 100$, $AD = 1000 + ((SD - 45) \times (1500 \div 55))$

For $100 < SD$, $AD = 2500$ mm

Where:

SD = Span Distance

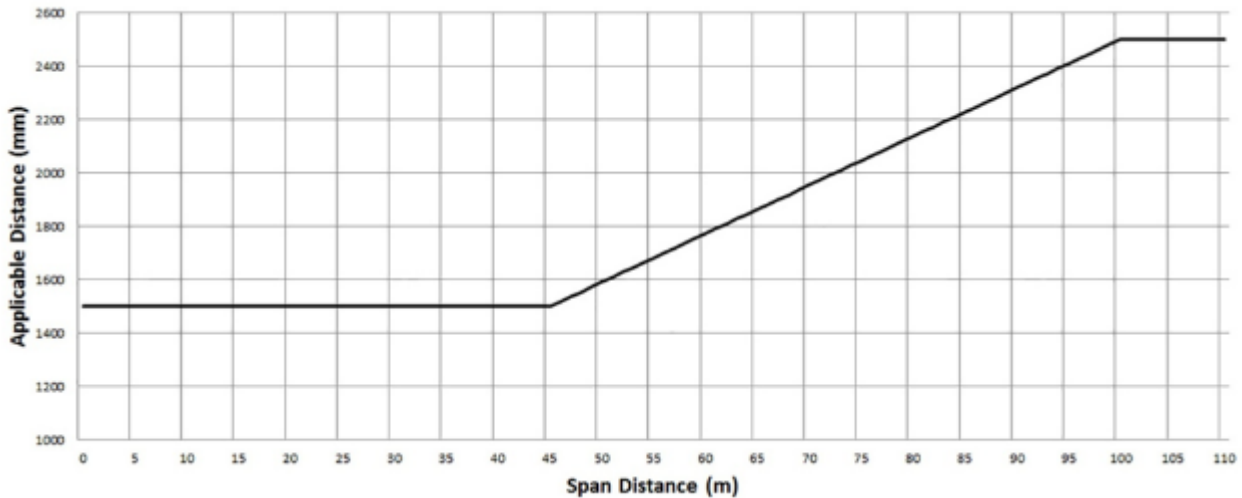
AD = Applicable Distance

Notes to Graph 2

- (1) The applicable distance includes allowances for sag and sway of the cable for a span up to and including 100 metres in length.
- (2) For a span longer than 100 metres, the applicable distance must be extended by an additional distance to allow for sag and sway of the cable. This is done by adding that distance to the applicable distance (see clause 25(2)(b)).
- (3) A distribution company, or an owner or operator of a railway supply network or a tramway supply network, must assist a Council, if requested, by determining the additional distance that allows for sag and sway of the cable (see clause 21(2)).
- (4) The minimum clearance space for a span of an electric line to which this Graph and clause 25 apply is partially illustrated in Figures 1 and 4.
- (5) The applicable distance for the first and last sixths of a span of an electric line to which clause 25 applies is 1000 millimetres.

GRAPH 3—UNINSULATED HIGH VOLTAGE ELECTRIC LINE (OTHER THAN A 66 000 VOLT ELECTRIC LINE) IN LOW BUSHFIRE RISK AREA

Clauses 3 and 26



Graph 3 Formula

The formula by which the applicable distance for the middle two thirds of a span of an electric line to which clause 26 applies is calculated is as follows:

For $0 < SD \leq 45$, $AD = 1500$ mm

For $45 < SD \leq 100$, $AD = 1500 + ((SD - 45) \times (1000 \div 55))$

For $100 < SD$, $AD = 2500$ mm

Where:

SD = Span Distance

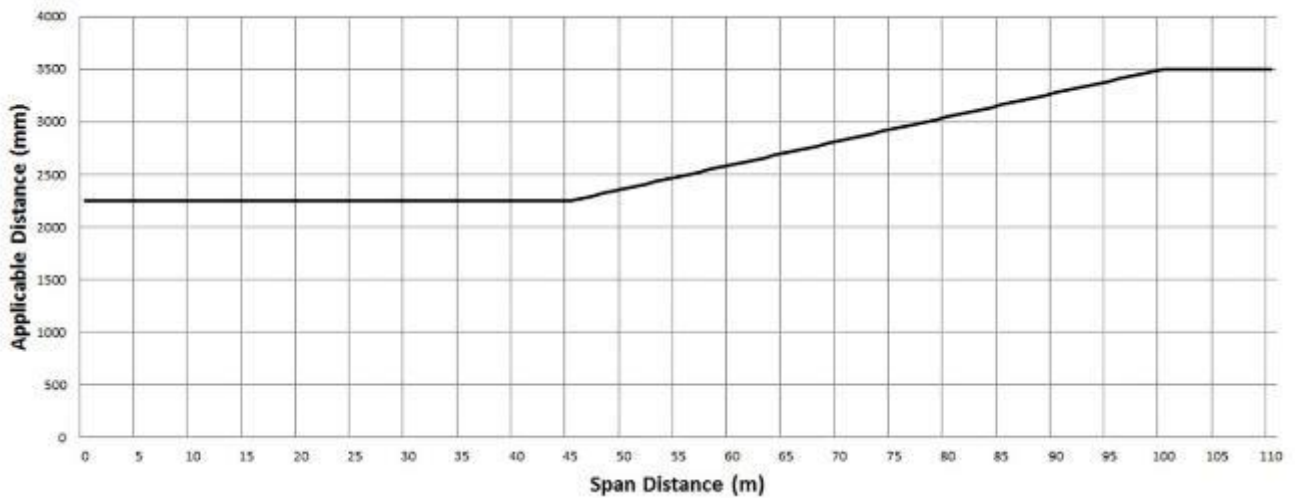
AD = Applicable Distance

Notes to Graph 3

- (1) The applicable distance includes allowances for sag and sway of the cable for a span up to and including 100 metres in length.
- (2) For a span longer than 100 metres, the applicable distance must be extended by an additional distance to allow for sag and sway of the cable. This is done by adding that distance to the applicable distance (see clause 26(2)(b)).
- (3) A distribution company, or an owner or operator of a railway supply network or a tramway supply network, must assist a Council, if requested, by determining the additional distance (see clause 21(2)).
- (4) The minimum clearance space for a span of an electric line to which this Graph and clause 26 apply is partially illustrated in Figures 1 and 3.
- (5) The applicable distance for the first and last sixths of a span of an electric line to which clause 26 applies is 1500 millimetres.

GRAPH 4—UNINSULATED 66 000 VOLT ELECTRIC LINE IN LOW BUSHFIRE RISK AREA

Clauses 3 and 27



Graph 4 Formula

The formula by which the applicable distance for the middle two thirds of a span of an electric line to which clause 27 applies is calculated is as follows:

For $0 < SD \leq 45$, $AD = 2250$ mm

For $45 < SD \leq 100$, $AD = 2250 + ((SD - 45) \times (1250 \div 55))$

For $100 < SD$, $AD = 3500$ mm

Where:

SD = Span Distance

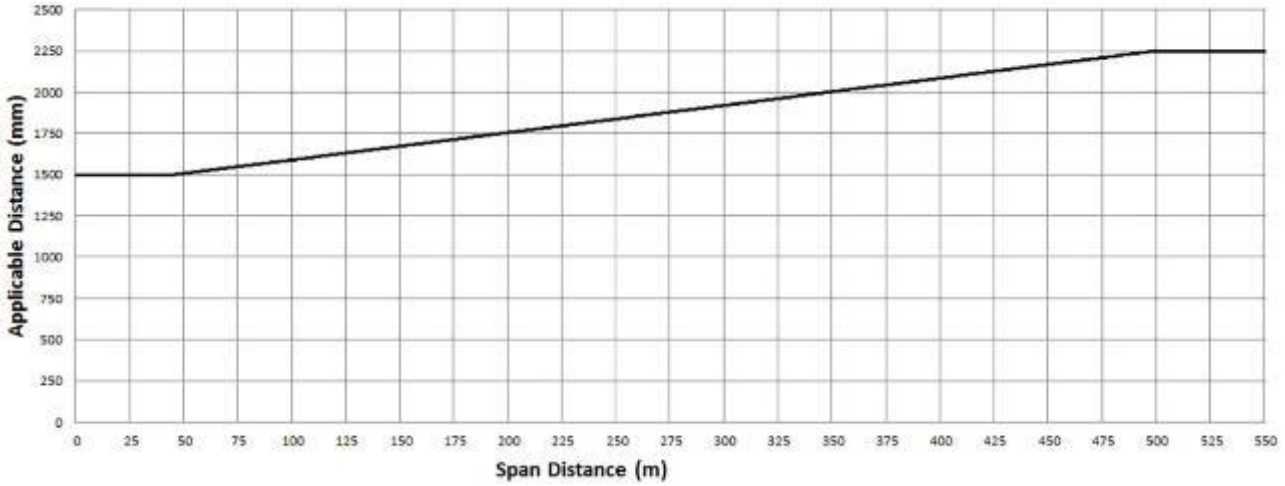
AD = Applicable Distance

Notes to Graph 4

- (1) The applicable distance includes allowances for sag and sway of the cable for a span up to and including 100 metres in length.
- (2) For a span longer than 100 metres, the applicable distance must be extended by an additional distance to allow for sag and sway of the cable. This is done by adding that distance to the applicable distance (see clause 27(2)(a)(ii)).
- (3) A distribution company, or an owner or operator of a railway supply network or a tramway supply network, must assist a Council, if requested, by determining the additional distance (see clause 21(2)).
- (4) The minimum clearance space for a span of an electric line to which this Graph and clause 27 apply is partially illustrated in Figures 1 and 5.
- (5) The applicable distance for the first and last sixths of a span of an electric line to which clause 27 applies is 2250 millimetres.

GRAPH 5—UNINSULATED LOW VOLTAGE AND HIGH VOLTAGE ELECTRIC LINE (OTHER THAN A 66 000 VOLT ELECTRIC LINE) IN HAZARDOUS BUSHFIRE RISK AREA

Clauses 3 and 28



Graph 5 Formula

The formula by which the applicable distance for the middle two thirds of a span of an electric line to which clause 28 applies is calculated is as follows:

For $0 < SD \leq 45$, $AD = 1500$ mm

For $45 < SD \leq 500$, $AD = 1500 + ((SD - 45) \times (500 \div 303))$

For $500 < SD$, $AD = 2250$ mm

Where:

SD = Span Distance

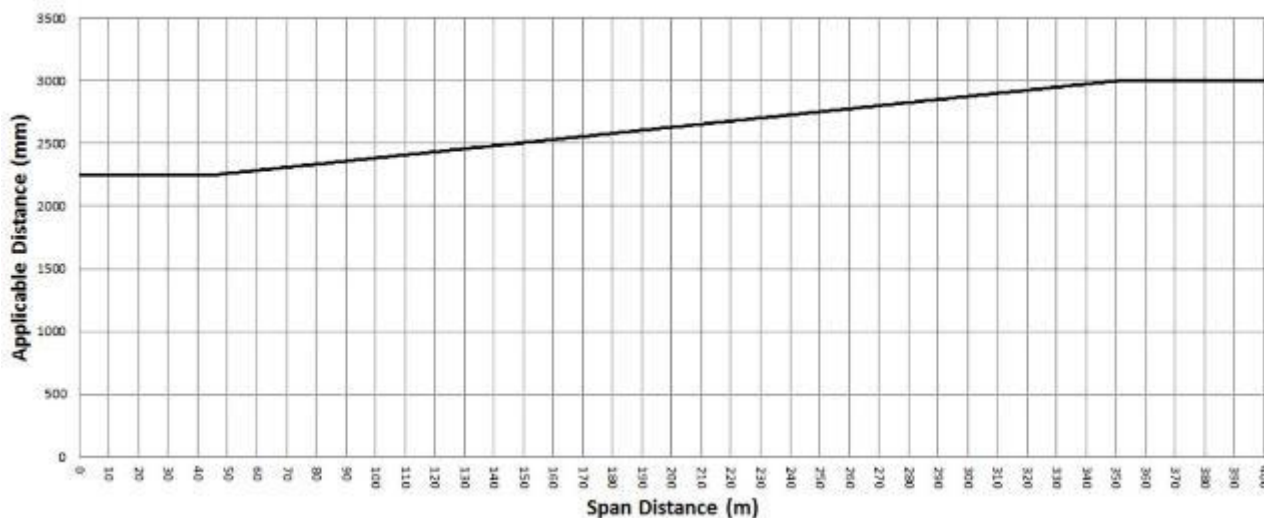
AD = Applicable Distance

Notes to Graph 5

- (1) The applicable distance must be extended by an additional distance to allow for sag and sway of the cable. This is done by adding that distance to the applicable distance (see clause 28(2)(a)).
- (2) A distribution company, or an owner or operator of a railway supply network or a tramway supply network, must assist a Council, if requested, by determining the additional distance (see clause 21(2)).
- (3) The minimum clearance space for a span of an electric line to which this Graph and clause 28 apply is partially illustrated in Figures 1 and 5.
- (4) The applicable distance for the first and last sixths of a span of an electric line to which clause 28 applies is 1500 millimetres.

GRAPH 6—UNINSULATED 66 000 VOLT ELECTRIC LINE IN HAZARDOUS BUSHFIRE RISK AREA

Clauses 3 and 29



Graph 6 Formula

The formula by which the applicable distance for the middle two thirds of a span of an electric line to which clause 29 applies is calculated is as follows:

For $0 < SD \leq 45$, $AD = 2250$ mm

For $45 < SD \leq 350$, $AD = 2250 + ((SD - 45) \times (750 \div 305))$

For $350 < SD$, $AD = 3000$ mm

Where:

SD = Span Distance

AD = Applicable Distance

Notes to Graph 6

- (1) The applicable distance must be extended by an additional distance to allow for sag and sway of the cable. This is done by adding that distance to the applicable distance (see clause 29(2)(a)).
- (2) A distribution company, or an owner or operator of a railway supply network or a tramway supply network, must assist a Council, if requested, by determining the additional distance (see clause 21(2)).
- (3) The minimum clearance space for a span of an electric line to which this Graph and clause 29 apply is partially illustrated in Figures 1 and 5.
- (4) The applicable distance for the first and last sixths of a span of an electric line to which clause 29 applies is 2250 millimetres.

FIGURE 1—PLAN VIEW OF ELECTRIC LINES IN ALL AREAS

Clauses 24, 25, 26, 27, 28 and 29,
Graphs 1, 2, 3, 4, 5 and 6

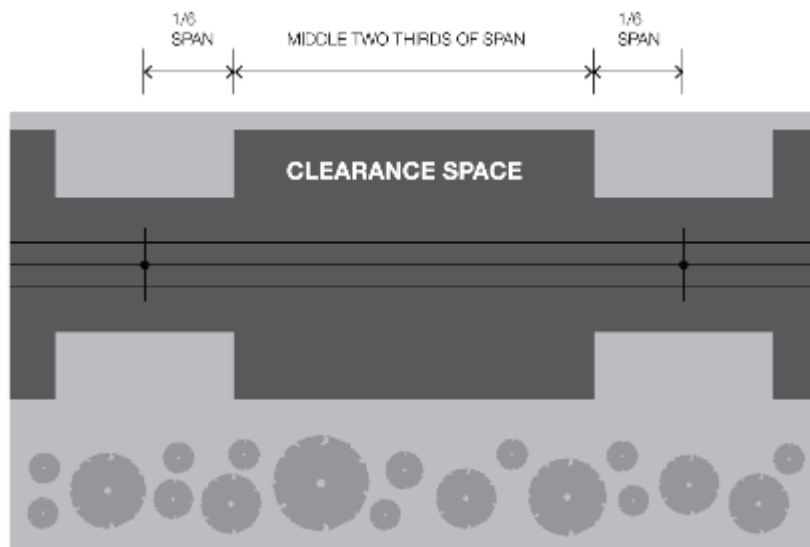
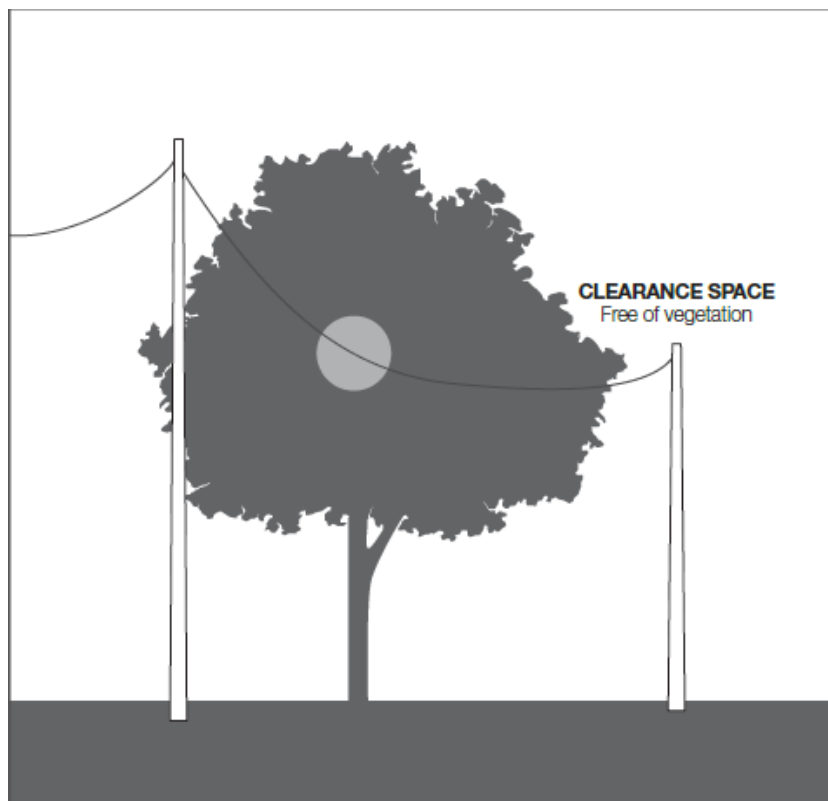


FIGURE 2—INSULATED ELECTRIC LINES IN ALL AREAS

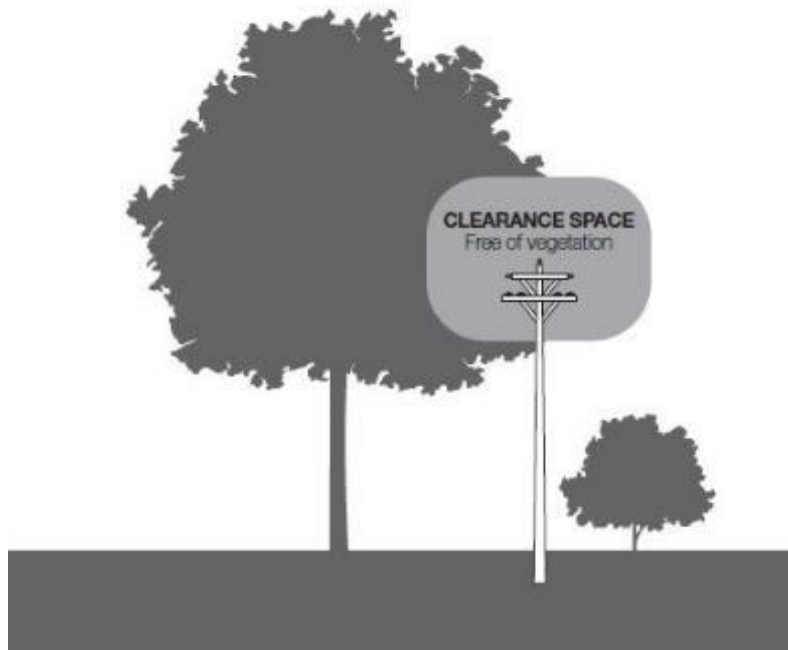
Clause 24, Graph 1



NOT TO SCALE

FIGURE 3—INSULATED ELECTRIC LINES IN ALL AREAS AND UNINSULATED HIGH VOLTAGE ELECTRIC LINES (OTHER THAN 66 000 VOLT ELECTRIC LINES) IN LOW BUSHFIRE RISK AREAS

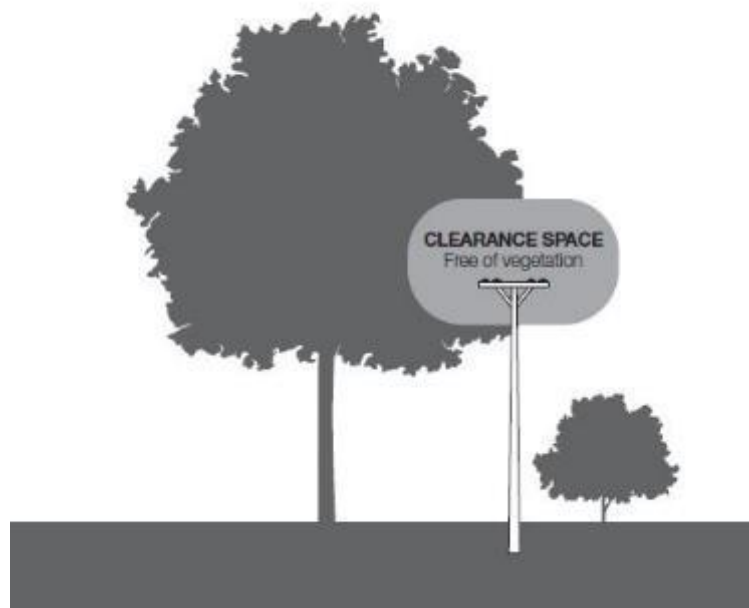
Clauses 24 and 26, Graphs 1 and 3



NOT TO SCALE

FIGURE 4—UNINSULATED LOW VOLTAGE ELECTRIC LINE IN A LOW BUSHFIRE RISK AREA

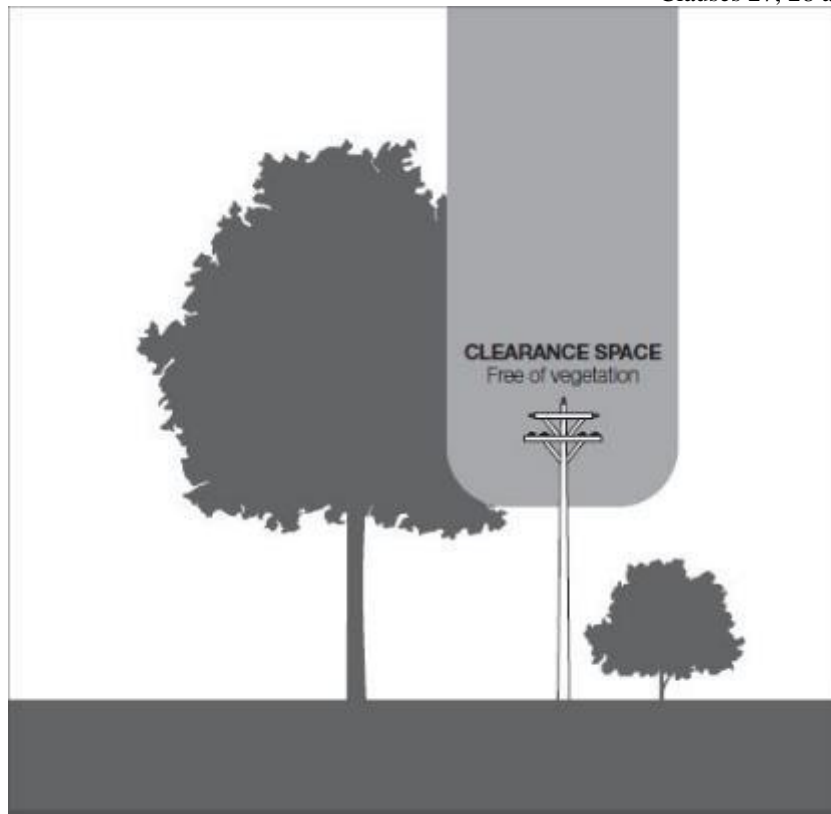
Clause 25, Graph 2



NOT TO SCALE

**FIGURE 5—UNINSULATED 66 000 VOLT ELECTRIC LINE IN A LOW BUSHFIRE RISK AREA
AND UNINSULATED ELECTRIC LINE IN A HAZARDOUS BUSHFIRE RISK AREA**

Clauses 27, 28 and 29, Graphs 4, 5 and 6



NOT TO SCALE

APPENDIX 5 – Sample of Indigo Shire Tree Pruning Audit

Tree Location	Tree Type	Pruning Required				Assess Code	Feeder	Inspection Date	Completion Date	Comments
		H.V.	L.V.	SERV.	ABC					
LOCH STREET										
CNR LOCH & KARS	1 X OA 1 X PO 1 X PI			3		PT30	MYT7	15/05/2019		1 WIRE - 3 TREES
36	1 X EL				1	PT30	MYT7	15/05/2019		
34 A	1 X EL				1	PT30	MYT7	15/05/2019		REMOVE - DANGEROUS
34	2 X EL				2	PT30	MYT7	15/05/2019		
32	2 X EL				2	PT30	MYT7	15/05/2019		CLEAR POLE
CNR WILLIAM	2 X EL				2	PT30	MYT7	15/05/2019		REDUCE WINGS, CLEAR POLE - REMOVE 2 LIMBS
POLE 4503363 - PARK	8 X EL				8	PT30	MYT7	15/05/2019		CNR WILLIAM TO BURKE MUSEUM, CLEAR POLE, REDUCE WINGS
CARPARK	2 X EL				2	PT30	MYT7	15/05/2019		CLEAR POLE & STREETLIGHT
10	1 X OA				2	PT30	MYT7	15/05/2019		
8	1 X OA				1	PT30	MYT7	15/05/2019		
CNR CHURCH STREET	2 X EL				2	PT30	MYT7	15/05/2019		
39	1 X EL		1			PT30	MYT7	15/05/2019		
21	1 X EL			1		PT30	MYT7	15/05/2019		
15 A	1 X EL			1		PT30	MYT7	15/05/2019		
13	1 X EL			3		PT30	MYT7	15/05/2019		
9	1 X EL			3		PT30	MYT7	15/05/2019		
3	1 X EL			1		PT30	MYT7	15/05/2019		
19 POLE 450 3075	1 X EL			2		PT30	MYT7	15/05/2019		
23 POLE 450 3077	1 X EL 1 X LA			1		PT30	MYT7	15/05/2019		CLEAR SW ACROSS ROAD
CORNER WILLIAM	1 X EL			1		PT30	MYT7	15/05/2019		
31	2 X EL			3		PT30	MYT7	15/05/2019		CLEAR SW ACROSS ROAD
37	1 X EL			2		PT30	MYT7	15/05/2019		CLEAR SW ACROSS ROAD