Docket: 2026-2028 Electrical Corporation Wildfire Mitigation Plans Docket#: 2026-2028-Base-WMPs

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UVM-02 Utility Vegetation Management Transmission Vegetation Management Plan (TVMP)

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Page 1 of 34

SCE	Legal,	Transmission & Distribution	n Methodology	Doc. No.	UVM-02	XXV.	SOUTHERN CALIFORNIA
JUE	Regulatory, and Compliance	Utility Vegetation Management (UVM)	wethodology	Version	8		EDISON
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Transmission Vegetation Management Plan (TVMP)

Table of Contents

1.	Intr	oduc	stion	4
	1.1	Pur	00se	4
	1.2	Obje	ectives	4
2.	Арј	plical	bility	5
2	2.1	Оре	erating Units	5
	2.2	Fac	ilities	5
	2.2.	.1	Transmission and Generation Facilities – NERC	5
	2.2	.2	Transmission Facilities – CPUC	6
	2.2.	.3	Transmission Facilities – Cal Fire	6
3.	Def	initic	ons	7
4.	Doo	cume	nt Detail	7
4	4.1	Enc	roachments	7
4	4.2	Maiı	ntenance Procedures	8
4	4.3	Noti	fication of Vegetation Threat1	0
4	4.4	Con	straints1	1
4	4.5	Insp	ections1	2
4	4.6	Con	npletion of Annual Work Plan1	2
5.	Cle	aran	ce Requirements1	4
ļ	5.1	Trar	nsmission Lines1	4
	5.1.	.1	Restricted Areas1	4
	5.1.	.2	Transmission Poles and Towers1	8
6.	Oth	ner Pi	rogram Elements1	9
(6.1	Insp	ection Types1	9
	6.1	.1	Inspections performed by SCE's Pre-Inspectors (PIs)1	9
	6.1	.2	Supplemental Inspections1	9
(6.2	Insp	ection Methods1	9
	6.2	.1	Ground Inspections1	9
	6.2	.2	LiDAR Inspections1	9
	6.2	.3	Ground Inspections Using Previously Acquired LiDAR Data2	0
	6.2	.4	Aerial Inspections	0

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						1	
SCE	Legal, Regulatory, and	Transmission & Distribution Utility Vegetation	Methodology	Doc. No.	UVM-02	SOUTHERN CALIFORNIA	
UUL	Compliance	Management (UVM)	weillouology	Version	8	EDISON	
	Effective Date	4/1/24				Energy for What's Ahead [™]	
	Supersedes	Version 7					
	T	ransmission Vegetat	ion Manage	ement P	lan (TVM	IP)	
6.3	Abnormal Field	Conditions				20	
6.4	ROW Width					20	
6.5	Vegetation Con	trol Techniques				20	
6.6	Post Work Veri	fication				21	
6.7	Personnel Qua	ifications and Training				21	
(6.7.1 Utility Veg	etation Management Personne	el			21	
(6.7.2 UVM Conf	ractors				21	
7. (Outages					21	
7.1	Outage Investig	ations				21	
-	7.1.1 Periodic D	ata Submittals				22	
8.	Evidence					23	
9.	Approvals					23	
10. Revision History							
11.	References					24	
12.	Attachments					25	

13.

14.

SCE	Legal, Regulatory, and Compliance	Transmission & Distribution Choose a Program:	Methodology	Doc. No.	UVM-02				
			Methodology	Version	8	Pr	SOUTHERN CALIFORNIA		
	Effective Date	4/1/24					r for What's Ahead [™]		
Supersedes Version 7							Ior What's Alleau		
Transmission Vegetation Management Plan (TVMP)									

1. Introduction

1.1 Purpose

Southern California Edison (SCE) maintains a reliable electric transmission system by using a defense-indepth strategy to manage vegetation located on and adjacent to transmission Rights-of-Way (ROW) in order to minimize the risk of encroachments into the specified clearance zones.

1.2 Objectives

The SCE Transmission Vegetation Management Plan (TVMP) is designed to comply with regulatory Compliance Requirements, such as the North American Electric Reliability Corp. (NERC) Reliability Standard FAC-003-5, California Public Utilities Commission (CPUC) General Order (GO) 95 requirements, Cal Fire Public Resource Codes (PRC), and Title 14, California Code of Regulations (CCR) while improving the reliability of SCE's transmission system by establishing maintenance and inspection procedures to:

- Manage vegetation to prevent vegetation encroachment into Clearance Zones stated in the following regulations, as applicable:
 - o FAC-003-5
 - GO 95, Rule 35 (Case 13 and Case 14)
 - o GO 95, Rule 37
 - o PRC 4293
 - o PRC 4292
 - o Title 14 CCR Sections 1250-1258
- Document the maintenance strategies, procedures, processes and specifications used to manage vegetation to prevent the encroachment into the clearances described in the regulations noted above
- Include consideration of 1) conductor dynamics, 2) vegetation movement in high winds, and 3) the interrelationships between vegetation growth rates, control methods and inspection frequency
- Provide timely notification to the appropriate control center of vegetation conditions that could cause a flash-over or Fault at any moment
- Implement corrective actions to prevent the encroachment into the clearances described in the regulations noted above
- Inspect vegetation conditions annually
- Complete the annual work needed to prevent encroachments into the clearances described in the regulations noted above

Page 4 of 34

SCE	Legal, Regulatory, and Compliance	Transmission & Distribution Choose a Program:	Mathadalagu	Doc. No.	UVM-02				
JUE			Methodology	Version	8	Zul	SOUTHERN CALIFORNIA		
Effective Date 4/1/24						Energy for What's Ahead [®]			
	LIIGIGY	ion what's Anead							
Transmission Vegetation Management Plan (TVMP)									

2. Applicability

2.1 Operating Units

This document is applicable to the OUs impacted by the Energy Regulatory Compliance Program (ERCP) compliance requirements related to Vegetation Management, including but are not limited to:

- Transmission and Distribution
- Generation

2.2 Facilities

2.2.1 Transmission and Generation Facilities – NERC

The following language is from NERC Reliability Standard FAC-003-5: Transmission Facilities: Each overhead transmission line as defined below, located outside the fenced area of the switchyard, station or substation and any portion of the span of the transmission line that is crossing the substation fence and including, but not limited to, those that cross lands owned by federal, state, provincial, public, private, or tribal entities:

- Each overhead transmission line operated at 200kV or higher.
- Each overhead transmission line operated below 200kV identified by the Planning Coordinator, per its Planning Assessment of the Near-Term Transmission Planning Horizon or its Transfer Capability Assessment (Planning Coordinator only), as Facilities that if lost or degraded are expected to result in instances of instability, Cascading, or uncontrolled separations.
- Each overhead transmission line operated below 200kV identified as an element of a Major Western Electricity Coordinating Council (WECC) Transfer Path in the Bulk Electric System (BES) by WECC.

Generation Facilities: Those lines as defined below including, but not limited to, those that cross lands owned by federal, state, provincial, public, private, or tribal entities.

- Overhead transmission lines that 1) extend greater than one mile or 1.609 kilometers beyond the fenced area of the generating station switchyard to the point of interconnection with a Transmission Owner's Facility, or 2) do not have a clear line of sight¹ from the generating station switchyard fence to the point of interconnection with a Transmission Owner's Facility and are:
 - o Operated at 200kV or higher; or
 - Operated below 200kV and identified by the Planning Coordinator, per its Planning Assessment of the Near-Term Transmission Planning Horizon or its Transfer Capability Assessment (Planning Coordinator only), as Facilities that if lost or degraded are expected to result in instances of instability, Cascading, or uncontrolled separation.

¹ "Clear line of sight" means the distance that can be seen by the average person without special instrumentation (e.g., binoculars, telescope, spyglasses, etc.) on a clear day.

SCE	Legal, Regulatory, and Compliance	Transmission & Distribution Choose a Program:	Mathadalagy	Doc. No.	UVM-02				
JUE			Methodology	Version	8	SOUTHERN CALIFORNIA EDISON®			
Effective Date 4/1/24						EDISON Energy for What's Ahead [™]			
	Energy for what's Alleau								
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2.2.2 Transmission Facilities – CPUC

The following language is from CPUC General Order 95, Rules 35 and 37.

Where overhead conductors traverse trees and vegetation, certain vegetation management activities are to be performed in order to establish necessary and reasonable clearances. The minimum clearances are set forth in Cases 13 and 14 and measured between line conductors and vegetation under normal conditions. Transmission lines operated at 115kV to 500kV located in:

- Non-fire areas where GO 95, Rule 35 (Case 13) applies
- Extreme and Very High fire areas where GO 95, Rule 35 (Case 14) applies

2.2.3 Transmission Facilities – Cal Fire

The following language is from Cal Fire PRC 4293 and Related CCRs

Any person that owns, controls, operates, or maintains any electrical transmission or distribution line upon any mountainous land, or in forest-covered land, brush-covered land, or grass-covered land shall, during such times and in such areas as are determined to be necessary by the director or the agency which has primary responsibility for the fire protection of such areas, maintain a clearance of the respective distances in all directions between all vegetation and all conductors which are carrying electric current.

Transmission lines operated at 115kV to 500kV located in:

• Fire areas where PRC 4293 applies

The following language is from Cal Fire PRC 4292 and Related CCRs

Any person that owns, controls, operates, or maintains any electrical transmission or distribution line upon any mountainous land, or forest covered land, brush-covered land, or grass-covered land shall, during such times and in such areas as are determined to be necessary by the director or the agency which has primary responsibility for fire protection of such areas, maintain around and adjacent to any pole or tower which supports a switch, fuse, transformer, lightning arrester, line junction, or dead end or corner pole, a firebreak which consists of a clearing of not less than 10 feet in each direction from the outer circumference of such pole or tower.

Transmission lines operated at 115kV to 500kV located in:

• Fire areas where PRC 4292 applies

Γ	SCE	Legal,	Transmission & Distribution	Methodology	Doc. No.	UVM-02				
		Regulatory, and Compliance	Choose a Program:	wethodology	Version	8				
		Effective Date	4/1/24	EDISON Energy for What's Ahead [™]						
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3. Definitions

Refer to the NERC Glossary of Terms, the E&C Shared Services Glossary of Terms (ECSS-02), and UVM Program Glossary of Terms (UVM-16) for any capitalized terms used in this document.

4. Document Detail

4.1 Encroachments

The language below is from the following Compliance Requirements:

- NERC Reliability Standard FAC-003-5 Requirement 1
- GO 95, Rule 35 and Rule 37
- PRC 4293

SCE or its approved contractor will manage vegetation to prevent encroachments into the Regulation Clearance Distance (RCD) of its applicable line(s), as described in Section 2, operating within their Rating and all Rated Electrical Operating Conditions of the types shown below².

- 1. An encroachment into the applicable RCD³, observed in Real-time, absent a Sustained Outage⁴
- 2. An encroachment due to a fall-in from inside the ROW that caused a vegetation-related Sustained Outage⁵
- 3. An encroachment due to the blowing together of applicable lines and vegetation located inside the ROW that caused a vegetation-related Sustained Outage
- 4. An encroachment due to vegetation growth into the RCD that caused a vegetation-related Sustained Outage

² FAC-003-5 Requirement 1does not apply to circumstances that are beyond the control of an applicable Transmission Owner or Generator Owner subject to this Reliability Standard, including natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, wind shear, fresh gale, major storms as defined either by the applicable Transmission Owner or Generator Owner or an applicable regulatory body, ice storms, and floods; human or animal activity such as logging, animal severing tree, vehicle contact with tree, or installation, removal, or digging of vegetation.

³ See Table 1 and Table 2.

 ⁴ If a later confirmation of a Fault by the applicable Transmission Owner or Generator Owner shows that a vegetation encroachment within the RCD has occurred from vegetation within the ROW, this shall be considered the equivalent of a Real-time observation.
⁵ Multiple Sustained Outages on an individual line, if caused by the same vegetation, will be reported as one outage regardless of the

SCE	Legal,	Transmission & Distribution	Methodology	Doc. No.	UVM-02				
	Regulatory, and Compliance	Choose a Program:	weinodology	Version	8	SIL	SOUTHERN CALIFORNIA		
Effective Date 4/1/24						Energy for What's Ahead [™]			
	Linergy	ion white s Anout							
Transmission Vegetation Management Plan (TVMP)									

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SCE will provide evidence to regulators upon request that it managed vegetation to prevent encroachments into the RCD as described above. Examples of acceptable forms of evidence may include dated attestations, dated reports containing no Sustained Outages associated with encroachment types 2 through 4 above, or records confirming no real-time observations of any RCD encroachments.

Strategy and Supporting Documentation

In order to prevent an encroachment into the RCD, SCE or its approved contractor will inspect and manage all vegetation located within its ROWs or easements upon which the applicable lines are located. SCE will also manage all vegetation located outside the ROW or easement to prevent encroachment into the RCD. During the inspection and the completion of work, movement of the line conductors and vegetation growth will be taken into consideration⁶.

Evidence that SCE or its approved contractor managed vegetation to prevent encroachments into the RCD will include documentation using Attachment A, "Utility Vegetation Management (UVM) Inspection Report / Grid Cover Sheet," when applicable, and documenting Post Work Verifications in VM's Work Management System.

Transmission line vegetation maintenance shall be completed annually. SCE or its approved contractor will verify the completion of annual vegetation maintenance.

Oversight of Maintenance work will be provided pursuant to the UVM Post Work Verification and UVM Program Oversight Procedure (see UVM-07) to provide reasonable assurance work is completed in accordance with the work specification.

4.2 Maintenance Procedures

The following language is from Requirements: NERC Reliability Standard FAC-003-5 Requirement 3; GO 95, Rule 35 and Rule 37; PRC 4293

SCE shall have documented maintenance strategies or procedures or processes or specifications it uses to prevent the encroachment of vegetation into the RCD that accounts for the following:

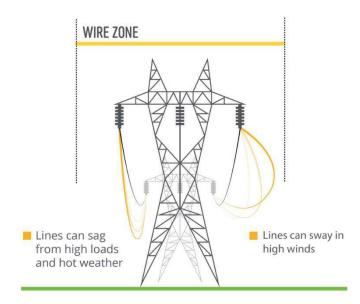
- Movement of line conductors (sag and sway) under their Rating and all Rated Electrical Operating Conditions (See Figure 2).
- Inter-relationships between vegetation growth rates, vegetation control methods, and inspection frequency.

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⁶ See Paragraph 1.2. Maintenance Procedures

SCE	Legal, Regulatory, and	Transmission & Distribution Choose a Program:	Methodology	Doc. No.	UVM-02				
	Compliance		wewoodogy	Version	8	P	SOUTHERN CALIFORNIA		
	Effective Date	4/1/24					EDISON Energy for What's Ahead [™]		
	Supersedes Version 7						ion what's Anead		
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SAG AND SWAY





Measure

The maintenance strategies or procedures or processes or specifications provided demonstrate that SCE can prevent encroachment into the RCD considering the factors identified in the requirement.

Strategy and Supporting Documentation

In order to prevent an encroachment into the RCD, SCE or its approved contractor will manage vegetation on ROWs according to the following specifications:

ROW widths, Maximum Line Sag, and Maximum Line Sway for lines that are subject to NERC Reliability Standard FAC-003-5 will be documented on a span by span basis. This data will be provided to internal personnel and/or contractors performing inspection work when Light Detection and Ranging (LiDAR) data is not used.

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Page 9 of 34

SCE	Legal, Regulatory, and Compliance	Transmission & Distribution Choose a Program:	Methodology	Doc. No. Version	UVM-02 8	SOUTHERN CALIFORNIA			
	Effective Date	4/1/24				EDISON [®]			
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ROW width, Sag and Sway data will allow field personnel to account for movement of the conductors under all Rated Electrical Operating Conditions when determining needed clearances or performing review. ROW width used for vegetation management may vary depending on site location, requirements, or restrictions. All lines subject to NERC Reliability Standard FAC-003-5 will meet ground clearance requirements, if possible, under all Rated Electrical Operating Conditions, as specified in General Order 95, Rule 37.

SCE performs a review of maintenance work as prescribed in the UVM Post Work Verification and UVM Oversight Procedure (UVM-07) to provide reasonable assurance work is completed according to the work prescription and required clearances.

SCE will document vegetation management elements related to its applicable lines as follows:

- Work methods (e.g., tree removal and pruning, herbicide application, brush removal, other vegetation management activities as described)
- Maintenance schedule
- Vegetation management inspection schedule (ground, aerial, LiDAR) •
- Line inspection schedule (other than vegetation management inspections)
- Species specific growth rates, as applicable (may use fastest growing species on ROW as worst case growth rate)
- Clearances to be attained during vegetation management work are based on species specific growth rates or worst case species growth rate in a given span, as applicable (see Section 5, Tables 1 & 2)
- Clearances are to be maintained under all operating conditions and at all times, as applicable (see • Section 5, Tables 1 & 2)

4.3 Notification of Vegetation Threat

The following language is from NERC Reliability Standard FAC-003-5 Requirement 4

SCE, without any intentional time delay, shall notify the switching center for the associated applicable line when SCE has confirmed the existence of a vegetation condition that is likely to cause a Fault at any moment.

When SCE has a confirmed vegetation condition likely to cause a Fault at any moment it will retain evidence that it notified the switching center for the associated transmission line without any intentional time delay.

Strategy and Supporting Documentation

The Vegetation Threat Procedure (UVM-08), establishes and documents the processes to follow when an imminent threat, emerging threat, or low threat condition exists.

Page 10 of 34

SCE	Legal, Regulatory, and Compliance	Transmission & Distribution Choose a Program:	Methodology	Doc. No.	UVM-02				
JOL			wewoodology	Version	8	PIL	SOUTHERN CALIFORNIA		
	Effective Date					r for What's Ahead [™]			
Supersedes Version 7							ion militor Anoua		
Transmission Vegetation Management Plan (TVMP)									

4.4 Constraints

Requirements: FAC-003-5 Requirement 5; GO 95, Rule 35 and Rule 37; PRC 4293

When SCE is constrained from performing vegetation work on an applicable line operating within its Rating and all Rated Electrical Operating Conditions, and the constraint may lead to a vegetation encroachment into the RCD prior to the implementation of the next annual work plan, then SCE shall take corrective action to ensure continued vegetation management to prevent encroachments.

Measure

SCE shall retain evidence of the corrective action taken for each constraint where an applicable transmission line was put at potential risk.

Strategy and Supporting Documentation

In the event that a property owner or jurisdiction refuses to allow SCE or its authorized contractor to complete vegetation work within the defined ROW on an applicable line, and the constraint may lead to a vegetation encroachment into the RCD prior to the implementation of the next annual work plan, then the following shall occur:

If the constraint was identified by an SCE employee/SSP, then:

- Manage Vegetation Threats in accordance with UVM-08, "Manage Vegetation Threats"
- Manage Customer refusals in accordance with UVM-14, "Manage Refusal Events."

If the constraint was identified by an SCE Vegetation Contractor, then the details of the constraint shall be documented in the Work Management System and the SSP with local jurisdication shall be made aware of the constraint for assistance with resolution.

Imminent Threat Condition

In the event that any imminent threat condition is observed, Vegetation Management Operations (VM) personnel, or the Grid Control Center (GCC) will be contacted without any intentional time delay and the steps outlined in UVM-08 will be followed.

SCE	Legal, Regulatory, and	Transmission & Distribution	Methodology	Doc. No.	UVM-02			
	Compliance	Choose a Program:	Methodology	Version	8		UTHERN CALIFORNIA	
	Effective Date 4/1/24						EDISON [®] Energy for What's Ahead [®]	
	Supersedes Version 7							
Transmission Vegetation Management Plan (TVMP)								

4.5 Inspections

Requirements: FAC-003-5 Requirement 6; GO 95, Rule 35 and Rule 37; PRC 4293

SCE shall perform a Vegetation Inspection of 100% of its applicable transmission lines at least once per calendar year and with no more than 18 calendar months between inspections on the same ROW⁷.

Measure

SCE shall retain evidence that it conducted Vegetation Inspections of the transmission line ROW for all applicable lines at least once per calendar year but with no more than 18 calendar months between inspections on the same ROW.

Strategy and Supporting Documentation

SCE or its approved contractor will inspect all vegetation located on and adjacent to the defined ROW of the applicable lines maintained by SCE as listed in the UVM Inspection Schedule at least once per calendar year and no longer than 18 calendar months between inspections.

Trees that may require additional maintenance throughout the year for any number of reasons (e.g., fastgrowing species, thermal and physical loading) are identified as Exception Trees and may be inspected more frequently as needed.

4.6 Completion of Annual Work Plan

Requirements: FAC-003-5 Requirement 7; GO 95, Rule 35 and Rule 37; PRC 4293

SCE shall complete 100% of its annual vegetation work plan of applicable lines to ensure no vegetation encroachments occur within the RCD. Modifications to the work plan in response to changing conditions or to findings from vegetation inspections may be made (provided they do not allow encroachment of vegetation into the RCD) and must be documented. Examples of required modifications to the annual plan may include:

- Change in expected growth rate/environmental factors
- Force Majeure Events⁸ that are beyond the control of a Transmission Owner or Generator Owner
- Rescheduling work between growing seasons
- Crew or contractor availability/mutual assistance agreements

Page 12 of 34

⁷ When the applicable Transmission Owner or Generator Owner is prevented from performing a Vegetation Inspection within the timeframe in R6 due to a natural disaster, the TO or GO is granted a time extension that is equivalent to the duration of the time the TO or GO was prevented from performing the Vegetation Inspection.

⁸ Circumstances that are beyond the control of an applicable Transmission Owner or Generator Owner include but are not limited to natural disasters such as earthquakes, fires, tornados, hurricanes, landslides, ice storms, floods, or major storms as defined either by the TO or GO or an applicable regulatory body.

SCE	Legal,	Transmission & Distribution	Mathadalagy	Doc. No.	UVM-02			
JUE	Regulatory, and Compliance	Choose a Program:	Methodology	Version	8	SOUTHERN CALIFORNIA EDISON®		
	Effective Date 4/1/24					Energy for What's Ahead [®]		
	Supersedes Version 7							
Transmission Vegetation Management Plan (TVMP)								

- Identified unanticipated high priority work
- Weather conditions/accessibility
- Permitting delays
- Land ownership changes/change in land use by the landowner
- Emerging technologies

Measure

SCE retains evidence that it completed its annual vegetation work plan for applicable lines.

Strategy and Supporting Documentation

SCE or its approved contractor will complete its annual vegetation work plan on the applicable lines as listed in the UVM annual work plan on an annual basis.

The UVM annual work plan is created and approved by SCE management and communicated to internal employees and contractors prior to the start of each calendar year.

In addition to the documentation required above, the following information will also be retained related to the completion of the annual vegetation work plan, as applicable.

- Completed annual work plan (as finally modified)
- Annual work plan in its original form
- Explanation of all changes to the original annual work plan as required by UVM-10, "Managing Work and Events"

SCE	Legal, Regulatory, and	Transmission & Distribution	Methodology	Doc. No.	UVM-02		
- OOL	Compliance	Choose a Program:	Methodology	Version	8	SIL	SOUTHERN CALIFORNIA
	Effective Date 4/1/24					EDISON Energy for What's Ahead [™]	
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Transmission Vegetation Management Plan (TVMP)							

5. Clearance Requirements

5.1 Transmission Lines

Based on the conditions described below, the subsequent processes are used to establish the clearance requirements in the Wire Zone and Border Zone of the applicable Table 1 or 2:

Grid Resiliency Clearance Distances (GRCD) are established to mitigate fire risk and maintain compliance with applicable regulatory requirements.

- GRCD-A and GRCD-B are to be established at time of maintenance work based on line voltage
- Trigger Clearance Distance⁹ (TCD) for UVM work to be initiated based on line voltage
- Compliance Clearance Distance¹⁰ (CCD) to be maintained at all times based on line voltage

Refer to Table 1 for Fire Area clearances: FAC-003-5, PRC 4293, and GO 95, Rule 35 Case 14

Refer to Table 2 for Non-Fire Area clearances: FAC-003-5, and GO 95, Rule 35 Case 13

5.1.1 Restricted Areas

Restricted Areas may result in conditions preventing the GRCD-A or GRCD-B, TCD or CCD for Tables 1 or 2 from being implemented. Examples include crops, orchards, environmentally sensitive areas or lack of easement rights.

When restricted areas are encountered and the clearances specified in Tables 1 or 2 cannot be achieved, then:

- GRCD-A or GRCD-B can be modified and documented in the work management system to address the specific circumstances or restrictions at that location
- Ensure sufficient clearance is achieved to maintain RCD for 18 months

¹⁰ CCD = RCD x 1.5 (Safety Margin) rounded up

Page 14 of 34

⁹ TCD = CCD + 3-feet

SCE	Legal, Regulatory, and	Transmission & Distribution	Methodology	Doc. No.	UVM-02			
OOL	Compliance	Choose a Program:	Methodology	Version	8			
	Effective Date 4/1/24					EDISON Energy for What's Ahead [™]		
	Supersedes Version 7							
Transmission Vegetation Management Plan (TVMP)								

	All Elevations in Fire Areas									
F	AC-003-5, PRC 4293	and GO 95, Rule 35	, Extreme and Very Hi	gh Fire Areas (Cas	e 14)					
Nominal Voltage ¹¹	Wire Zone/Sag - Clearance Distance at Time of Maintenance GRCD-A ¹²	Border Zone/Sway - Clearance Distance at Time of Maintenance GRCD-B ¹³	WZ / BZ Clearance Distance that Triggers Work TCD	WZ / BZ Clearance Distance to be Maintained for Compliance CCD	Regulation Clearance Distance RCD					
500kV	30'	Clear to the greater of the	18'	15'	10.0'					
230kV	30'	following: (1) Defined ROW	18'	15'	10.0'					
161kV	30'	Boundaries <u>or;</u> (2) Maximum	18'	15'	10.0'					
115kV	30'	Blowout plus 30'	18'	15'	10.0'					
		Clear to the greater of the following: (1) Defined ROW Boundaries <u>or;</u> (2) Maximum								
69kV	12'	Blowout plus 12'	9'	6'	4.0'					

Table 1: Clearance Distance - Fire Areas, FAC-003-5, PRC 4293, Rule 35 (Case 14)

The clearances in Table 1 must take into consideration maximum sag and sway under all Rated Electrical Operating Conditions and vegetation movement for lines subject to NERC Reliability Standard FAC-003-5.

Page 15 of 34

¹¹ 161kV, 115kV, and 69kV Major WECC Transfer Path, when applicable

¹² If GRCD-A recommended clearances cannot be achieved, required maintenance shall ensure RCD for 18 months

¹³ If GRCD-B recommended clearance (2) cannot be achieved, required maintenance shall ensure RCD for 18 months

SCE	Legal,	Transmission & Distribution	Mathadalagy	Doc. No.	UVM-02		
	Regulatory, and Compliance	Choose a Program:	Methodology	Version	8		SOUTHERN CALIFORNIA
Effective Date 4/1/24					EDISON Energy for What's Ahead [™]		
	Supersedes Version 7						A WHILE S AROUN
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	Non-Fire Areas -Based on Elevations up to 8000' in									
		FAC-003-5 and GO9	5 Rule 35 (Case 13)							
Nominal Voltage ¹⁴	Wire Zone/Sag - Clearance Distance at Time of Maintenance GRCD-A ^{15 16 17}	Border Zone/Sway - Clearance Distance at Time of Maintenance GRCD-B ¹⁸	WZ / BZ Clearance Distance that Triggers Work TCD	WZ / BZ Clearance Distance to be Maintained for Compliance CCD	Regulation Clearance Distance RCD					
500kV	30'	Clear to the greater of the following: (1)	18'	15'	9.6'					
230kV	30'	Defined ROW Boundaries <u>or;</u> (2) Maximum Blowout plus 30'	10'	7'	4.7'					
161kV	10'	Clear to the	8'	5'	3.2'					
1154/	10'	greater of the following: (1) Defined ROW Boundaries <u>or;</u> (2) Maximum Blowout plus 10'	7'	4'	2.2'					
115kV	10'	Blowout plus 10' Clear to the greater of the following: (1) Defined ROW	<i>T</i>	4.	2.2					
69kV	6'	Boundaries <u>or;</u> (<u>2)</u> Maximum Blowout plus 6'	n/a	3'	1.5'					

Table 2: Clearance Distances – Non-Fire Areas, FAC-003-5 and GO95 Rule 35 (Case 13)

The clearances in Table 2 must take into consideration maximum sag and sway under all Rated Electrical Operating Conditions and vegetation movement for lines subject to NERC Reliability Standard FAC-003-5.

Page 16 of 34

^{14 161}kV, 115kV, and 69kV Major WECC Transfer Path, when applicable

¹⁵ GO95 Rule 35 Appendix E Case 13 (non-Fire Areas) recommends 10' clearance for 110kV to 300kV

¹⁶ Although GO95 Rule 35 Appendix E Case 13 (non-Fire Areas) recommends 4' clearance for 2.4kV to 72kV, SCE is adopting a 6' clearance

¹⁷ If GRCD-A recommended clearances cannot be achieved, required maintenance shall ensure RCD for 18 months

¹⁸ If GRCD-B recommended clearance (2) cannot be achieved, required maintenance shall ensure RCD for 18 months

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WIRE ZONE/BORDER ZONE

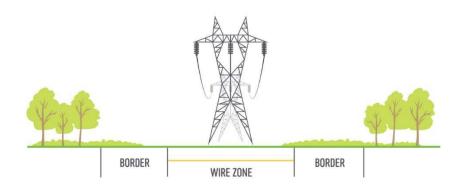


Figure 2: Wire Zone – Border Zone

- Vegetation in the Wire Zone must be cleared, and maintained per the clearances noted in the Tables 1 and 2, as appropriate. Fast Growing Tree Species that are located in the Wire Zone shall be removed as appropriate¹⁹. The Wire Zone in Tier 2 and Tier 3 fire areas will contain only lowgrowing trees, shrubs, and grasses. All fast growing tree species are described in Attachment B: "Tree Species in SCE Service Territory."
- Vegetation in the Border Zone will be pruned or removed to prevent encroachment into a Clearance Zone under all Rated Electrical Operating Conditions as documented on the Attachment A: "UVM Inspection Report / Grid Cover Sheet," as applicable, or via Post Work Verification in the WMS if corrective action is needed.
- Vegetation identified as a Hazard Tree will be mitigated in accordance with Procedure UVM-04, "UVM Hazard Tree Management Plan."
- An Exclusion Zone is to be established and maintained under and around transmission towers. The Exclusion Zone is a clear area (bare ground) under the tower and measuring a minimum of 10' out from the outside perimeter of the tower footings and a 20' perimeter Exclusion Zone will be established where necessary for access and maintenance.
- If RCD plus 18 months growth clearance cannot be attained at the time of scheduled maintenance due to easements, other legal agreements, or regulations that restrict vegetation management practices, the maximum allowable amount of vegetation will be removed or otherwise controlled as appropriate. These Exception Tree(s) will be documented in the work management system and reinspected as necessary throughout the year.

¹⁹ Trees that have the capability to encroach into the clearance distances at maturity shall be removed

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5.1.2 Transmission Poles and Towers

The following clearances around transmission poles and towers are to be maintained as required in PRC 4292 and CCR 1254.

The 10 foot clearance for towers noted in Figure 3 may be increased to 20 feet when needed for vehicle access.

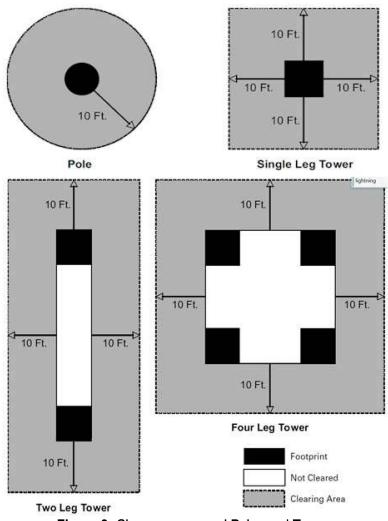


Figure 3: Clearances around Poles and Towers

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	Effective Date 4/1/24						EDISON Energy for What's Ahead [®]	
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6. **Other Program Elements**

6.1 Inspection Types

6.1.1 Inspections performed by SCE's Pre-Inspectors (PIs)

SCE or contracted PIs conduct inspections (denoted as Pre-inspections) of applicable lines, to identify:

- Vegetation management work needed to maintain compliance with applicable regulations
- Potential CCD or RCD encroachments
- Hazard Trees (on-ROW and observable off-ROW trees)
- Exception Trees •

6.1.2 Supplemental Inspections

Supplemental inspections are performed by qualified Transmission Operations personnel throughout the year. Identified conditions requiring vegetation related work are recorded and reported to VM personnel for scheduling of remediation, as applicable.

6.2 Inspection Methods

6.2.1 Ground Inspections

SCE performs inspections, for lines with identified vegetation, from vehicles or by foot from the source point to the end of line. For lines that are subject to NERC Reliability Standard FAC-003-5, when vegetation LiDAR data is not available and ground inspections are required, then the ground inspections require the use of Sag and Sway table data to determine when pruning is required to maintain the required clearance.

6.2.2 LiDAR Inspections

LiDAR is a surveying method that measures distance to a target by illuminating the target with pulsed laser light and measuring the reflected pulses with a sensor. Differences in laser return times can then be used to make digital three-dimensional representations of the target. LiDAR data acquisitions are conducted via air patrol.

SCE uses LiDAR as an inspection and measurement tool to identify clearances between high-voltage lines and vegetation. This method of inspection and measurement is used on selected ROWs in the SCE system, and is employed when lines cannot be readily accessed by ground or the clearances between vegetation and conductors cannot be obtained both vertically and horizontally from an aerial patrol. Due to the increased accuracy and additional data obtained using LiDAR technology, LiDAR is the preferred method of inspection, when practical.

Vegetation concerns identified from evaluation of the LiDAR data may be supplemented by foot/ground patrols to validate the concerns and/or other required information, as applicable.

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Page 19 of 34

SCE	Legal,	Transmission & Distribution	Mathadalagu	Doc. No.	UVM-02			
JUE	Regulatory, and Compliance	Choose a Program:	Methodology	methodology	Version	8	1	SOUTHERN CALIFORNIA
	Effective Date 4/1/24						EDISON Energy for What's Ahead [®]	
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Based on topography, line construction, and ecosystem type, the LiDAR inspection will be scheduled as needed. Refer to UVM-06, LiDAR Reference Guide.

6.2.3 Ground Inspections Using Previously Acquired LiDAR Data

Slow-growing plant communities or Subject Trees near or beyond the Border Zone can have valid LiDAR data older than five years from the original LiDAR inspection detailed in section 6.2.2. In these instances, ground inspections using previously acquired LiDAR data can be used to identify changes/growth of vegetation and assessment of required pruning/maintenance to achieve required clearance. When using this method of inspection, the preinspector is required to inspect from the source point to the end of line.

6.2.4 Aerial Inspections

Where Line Clearance cannot be readily assessed from the ground but the horizontal and vertical clearance between the vegetation and conductors can be determined from an aerial inspection, then aerial inspections are acceptable. Aerial inspections are also an acceptable method for conducting poststorm/post-fire emergency inspections.

6.3 Abnormal Field Conditions

Inspections that cannot be completed due to inaccessibility, customer refusals or other restrictions will be promptly reported to the VM Event Expeditor for managing the condition in accordance with UVM-14. When these conditions are identified by SCE Vegetation contractors, the condition and/or reason for the incomplete work shall be documented in the Work Management System and the SSP with local jurisdication shall be notified to assist with resolution of the identified condition.

In the event that any imminent threat condition is observed, Vegetation Management Operations (VM) personnel, or the Grid Control Center (GCC) will be contacted without any intentional time delay and the steps outlined in UVM-08 will be followed.

ROW Width 6.4

ROW widths are established by engineering or construction standards as documented in either construction documents, pre-2007 vegetation maintenance records, or by the blowout standard in effect when the line was built.

6.5 **Vegetation Control Techniques**

SCE uses industry standard Integrated Vegetation Management (IVM) techniques to perform scheduled and required work. These techniques may include:

- Manual (Pruning and Removal)
- Chemical (Herbicides)
- Mechanical (Mowing, Mastication, Feller Bunchers, etc.)

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Page 20 of 34

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Effective Date 4/1/24						EDISON Energy for What's Ahead [®]		
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• Other cultural and biological practices to promote desirable, stable, low - growing plant communities that will resist invasion by tall growing tree species

Prescriptions for required work are generally developed on a case by case basis and consider a myriad of local factors.

6.6 Post Work Verification

VM SSPs perform a Post Work Verification after completion of contractor(s) work. The VM SSP reviews occur after inspection and/or line clearing work is completed. Review samples are selected in accordance with UVM-07, Post Work Verification and UVM Program Oversight.

6.7 Personnel Qualifications and Training

6.7.1 Utility Vegetation Management Personnel

The VM SSPs responsible for performing Post Work Verifications shall be qualified in accordance with Procedure UVM-11, "Qualification of UVM Senior Specialists." SSPs shall be Certified Arborists with the International Society of Arboriculture. SSPs are also trained to utilize transmission circuit maps; understand transmission and substation operations; recognize restricted areas; and are trained to understand all laws, regulations, and standards applicable to their work.

6.7.2 UVM Contractors

Contract personnel receive the majority of their training through their respective employers. This ongoing training is supplemented by SCE

Training provided by SCE to contract personnel includes, but is not limited to, the following:

- Regulatory Compliance Requirements (state and federal)
 - NERC Reliability Standard FAC-003-5, General Order 95, Public Resource Codes
- Imminent threat procedures (UVM-08, Vegetation Threat Procedure)
- Managing Refusal Events (UVM-14, Manage Refusal Events)
- Reporting inaccessible areas
- Environmentally sensitive habitat areas
- Avian restrictions
- SCE operations and contractual requirements

7. Outages

7.1 Outage Investigations

Sustained Outages are investigated by a qualified Transmission department employee and/or a qualified VM employee to determine the cause. This investigation is performed using a Tree Caused Circuit Interruption (TCCI) Investigations Log.

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Page 21 of 34

SCE	Legal, Regulatory, and Compliance	Transmission & Distribution Choose a Program:	Methodology	Doc. No. Version	UVM-02 8	S	SOUTHERN CALIFORNIA		
	Effective Date	4/1/24					EDISON [®] Energy for What's Ahead [™]		
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7.1.1 Periodic Data Submittals

SCE will report vegetation related transmission outages to the Regional Entity pursuant to current Regional Entity's requirements under NERC Reliability Standard FAC-003-5. Outages will be reported using the following categories:

- Category 1A Grow-ins: Sustained Outages caused by vegetation growing into applicable lines, that are identified by the Planning Coordinator, per its Planning Assessment of the Near-Term Transmission Planning Horizon or its Transfer Capability Assessment (Planning Coordinator only), as Facilities that if lost or degraded are expected to result in instances of instability, Cascading, or uncontrolled separation, by vegetation inside and/or outside of the ROW
- Category 1B Grow-ins: Sustained Outages caused by vegetation growing into applicable lines, but are not identified by the Planning Coordinator, per its Planning Assessment of the Near-Term Transmission Planning Horizon or its Transfer Capability Assessment (Planning Coordinator only), as Facilities that if lost or degraded are expected to result in instances of instability, Cascading, or uncontrolled separation, by vegetation inside and/or outside of the ROW
- 3. Category 2A Fall-ins: Sustained Outages caused by vegetation falling into applicable lines that are identified by the Planning Coordinator, per its Planning Assessment of the Near-Term Transmission Planning Horizon or its Transfer Capability Assessment (Planning Coordinator only), as Facilities that if lost or degraded are expected to result in instances of instability, Cascading, or uncontrolled separation, from within the ROW
- 4. Category 2B Fall-ins: Sustained Outages caused by vegetation falling into applicable lines, but are not identified by the Planning Coordinator, per its Planning Assessment of the Near-Term Transmission Planning Horizon or its Transfer Capability Assessment (Planning Coordinator only), as Facilities that if lost or degraded are expected to result in instances of instability, Cascading, or uncontrolled separation, from within the ROW
- Category 3 Fall-ins: Sustained Outages caused by vegetation falling into applicable lines from outside the ROW
- 6. Category 4A Blowing together: Sustained Outages caused by vegetation and applicable lines that are identified by the Planning Coordinator, per its Planning Assessment of the Near-Term Transmission Planning Horizon or its Transfer Capability Assessment (Planning Coordinator only), as Facilities that if lost or degraded are expected to result in instances of instability, Cascading, or uncontrolled separation, blowing together from within the ROW
- 7. Category 4B Blowing together: Sustained Outages caused by vegetation and applicable lines, but are not identified by the Planning Coordinator, per its Planning Assessment of the Near-Term Transmission Planning Horizon or its Transfer Capability Assessment (Planning Coordinator only), as Facilities that if lost or degraded are expected to result in instances of instability, Cascading, or uncontrolled separation, blowing together from within the ROW

SCE	Legal,	Transmission & Distribution	Mathadalagy	Doc. No.	UVM-02			
30L	Regulatory, and Compliance	Choose a Program:	Methodology	Version	8		SOUTHERN CALIFORNIA	
	Effective Date	4/1/24					EDISON [®] Energy for What's Ahead [™]	
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8. Evidence

SCE shall retain data or evidence to show compliance with NERC Reliability Standard FAC-003-5, Requirements R1, R3, R5, R6 and R7 for three calendar years unless directed by its Compliance Enforcement Authority to retain specific evidence for a longer period of time as part of an investigation.

SCE shall retain data or evidence to show compliance with NERC Reliability Standard FAC-003-5, Requirement R4 for the most recent 12 months of operator logs or the most recent 3 months of voice recordings or transcripts of voice recordings, unless directed by its Compliance Enforcement Authority to retain specific evidence for a longer period of time as part of an investigation.

9. Approvals

Program Manager	Signature	Date
[NAME REMOVED] Principal Manager	[NAME REMOVED]	3/19/24

10. Revision History

Revision Number	Date	Description of the Revision	Ву	Next Review Date
1	7/1/18	Re-write to include the following enhancements: Clearing distances calculated based on additional factors such as sag and sway	UVM Build Team	2019
2	9/27/18	Updated to include all Vegetation Regulations – not just FAC-003	UVM Build Team	2019
3	2/1/19	Updated clearance distances in all tables	[NAME REMOVED]	2019

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JUE	Regulatory, and Compliance	Choose a Program:	Methodology	Version	8		
	Effective Date	4/1/24	EDISON [®] Energy for What's Ahead [™]				
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	Transmission Vegetation Management Plan (TVMP)						

Revision Number	Date	Description of the Revision	Ву	Next Review Date
4	5/17/19	General Document Refresh Deleted "ROW Width Table" from document and added to VM SharePoint site	[NAME REMOVED]	5/17/20
5	8/9/19	Revised GRCD clearances and footnotes. Provided additional clarification for inspection methods	[NAME REMOVED]	8/9/20
6	3/1/21	Removed "For Internal Use" Procedure Designation	[NAME REMOVED]	3/1/22
7	7/28/23	Deleted prior Attachment A Changed 6.2.2 "will" to "may" Changed procedure retention time to 10 years Updated Tree Species List	[NAME REMOVED]	7/28/24
8	4/1/24	Updated to incorporate FAC-003-5 Deleted prior attachment B and E Updated Tree Species List	[NAME REMOVED]	4/1/25

11. References

External References

- ANSI A300: Standards that apply to professionals who provide or supervise the management of trees or woody landscape plants
- ANSI A300 (Part 1): Identifies written pruning performance standards for tree care
- ANSI A300 (Part 7): Integrated approach to management of vegetation on utility right-of-way
- ANSI A300 (Part 9): Provides guidelines for the practice of tree risk assessment and standards for writing specifications
- ANSI Z 133.1: Applies to employers engaged in the business of pruning, maintaining, or removing vegetation and brush chipping

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Page 24 of 34

SCE	Legal,	Transmission & Distribution	Mathadalagy	Doc. No.	UVM-02		
30L	Regulatory, and Compliance	Choose a Program:	Methodology	Version	8	SOUTHERN CALIFORNIA	
	Effective Date	4/1/24				EDISON [®] Energy for What's Ahead [™]	
	Supersedes Version 7						
		Transmission Vegetat	ion Managem	ent Plan	(TVMP)		

- NERC Glossary of Terms
- NERC Reliability Standard FAC-003-4 NERC Glossary of Terms https://www.nerc.com/pa/Stand/Glossary%20of%20Terms/Glossary_of_Terms.pdf

Internal References

- ECSS-02, E&C Shared Services Glossary of Terms
- UVM-06, LiDAR Reference Guide
- UVM-07, Post Work Verification and UVM Program Oversight
- UVM-08, Managing Vegetation Threats
- UVM-11, Qualification of UVM Senior Specialists
- UVM-12, Employee and Contractor Training
- UVM-14, Manage Refusal Events

12. Attachments

Attachment A: UVM Inspection Report / Grid Cover Sheet

Attachment B: Tree Species in SCE Service Territory

Attachment C: NERC Reliability Standard FAC-003 - Table 2, Minimum Vegetation Clearance Distances

Attachment D: UVM Outage Investigation Report

13. Distribution and Data Retention

The approved version of the document shall be stored on the Vegetation Management SharePoint site while in effect and for at least ten (10) years thereafter.

Distribution List:

- UVM Program Owner
- UVM Department Managers
- OU Touchpoints

14. Key Contacts

UVM Principal Manager, Operations: [NAME AND PHONE NUMBER REMOVED]

UVM Senior Manager, Compliance: [NAME AND PHONE NUMBER REMOVED]

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Page 25 of 34

SCE	Legal, Regulatory, and	Transmission & Distribution	Methodology	Doc. No.	UVM-02				
	Compliance	Choose a Program:	moundablogy	Version	8		SOUTHERN CALIFORNIA		
	Effective Date	4/1/24					EDISON [®] Energy for What's Ahead [™]		
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Attachment A UVM Inspection Report / Grid Cover Sheet

Circle one: DISTRIBUTION or TRANSMISSION

Zone:	District:		Grid:	180:
Pre-Inspection	Tree Contractor		SCE Senior Speciali	st
2018 Inventory	2018 Performed Trims	% GRCD Trin	ns Achieved	
2018 Prescribed Trims	2019 Performed Trims	% Approved	Exceptions	
2019 Inventory	2019 Performed Removals	% Unapprov	ed Exceptions	
2019 Prescribed Trims	Total Hours Invoiced	Trim Refusal	s Pendine	
2019 Prescribed Removals	Approved Exceptions		fusals Pending	^
2019 Removals Approved	Unapproved Exceptions		anently Res.	1
Total Hours Invoiced	Priority 1 Permanently Res.	SCE Field Re		
Approved Exceptions	Additional Compliance	ji k	÷	
Unapproved Exceptions	Add Locations	18		
Priority 1	Abnormal Field Conditions	- S		
Additional Compliance				
Notification Consultant	+			
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Company Name:		Notes:		
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Start Date:				
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Page 26 of 34

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	Effective Date	4/1/24				Energy	EDISON [®] for What's Ahead [™]
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Attachment B Tree Species in SCE Service Territory

Common Name	Genus	¥	species	*	Growth Rate	-	Risk Rating	*
Ailanthus	Ailanthus		altissima		Fast		High	
Arundo	Arundo		donax		Medium		High	
Ash	Fraxinus		spp		Fast		High	
Ash - Evergreen	Fraxinus		udhei		Fast		High	
Ash - Modesto	Fraxinus		velutina		Fast		High	
Ash - Raywood	Fraxinus		oxycarpa		Fast		High	
Aspen - Quaking	Populus		tremuloides		Medium		High	
Athel	Tamarix		spp		Fast		High	
Bamboo	Bambusa		spp		Fast		High	
Catalpa	Catalpa		speciosa		Fast		High	
Century Plant	Agave		americana		Fast		High	
Coolibah	Eucalyptus		coolabah		Fast		High	
Coral	Erythrina		corallodendron		Fast		High	
Cottonwood	Populus		spp		Fast		High	
Cottonwood - Black	Populus		trichocarpa		Fast		High	
Cottonwood - Western	Populus		fremontii		Fast		High	
Eucalyptus	Eucalyptus		spp		Fast		High	
Eucalyptus - Blue Gum	Eucalyptus		globulus		Fast		High	
Eucalyptus - Lemon	Corymbia		citriodora		Fast		High	
Eucalyptus - Manna Gum	Eucalyptus		viminalis		Fast		High	
Eucalyptus - Red Flowering Gum	Corymbia		ficifolia		Fast		High	
Eucalyptus - Red Gum	Eucalyptus		camaldulensis		Fast		High	
Eucalyptus - Red Ironbark	Eucalyptus		sideroxylon		Fast		High	
Eucalyptus - Silver Dollar Gum	Eucalyptus		polyanthemos		Fast		High	
Jacaranda	Jacaranda		mimosifolia		Fast		High	
Liquid Amber	Liquidambar		styraciflua		Medium		High	
Locust	Gleditsia		spp		Fast		High	
Locust - Black	Robinia		pseudoacacia		Fast		High	
Locust - Honey	Gleditsia		triacanthos		Fast		High	
Maple	Acer		spp		Fast		High	
Maple - Bigleaf	Acer		macrophyllum		Fast		High	
Maple - Box Elder	Acer		negundo		Fast		High	
Maple - Silver	Acer		saccharinum		Fast		High	
Mimosa	Albizia		julibrissin		Fast		High	
Mulberry	Morus		alba		Fast		High	
Oak - Black	Quercus		kelloggii		Medium		High	
Oak - Valley	Quercus		lobata		Fast		High	
Palm - California	Washingtonia		filifera		Fast		High	
Palm - Canary Island	Phoenix		canariensis		Medium		High	

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SCE	Legal,	Transmission & Distribution	Mathadalagy	Doc. No.	UVM-02	
	Regulatory, and Compliance	Choose a Program:	Methodology	Version	8	SOUTHERN CALIFORNIA
	Effective Date	4/1/24	EDISON [®] Energy for What's Ahead [™]			
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Common Name	Genus	* species	*	Growth Rate	*	Risk Rating		
Palm - Date	Phoenix	dactylifera		Fast		High		
Palm - Guadalupe	Brahea edulis Fast			High				
Palm - King	Archontophoenix	cunninghamiana		Medium		High		
Palm - Mexican	Washingtonia	robusta		Fast		High		
Palm - Other	Palm	spp		Fast		High		
Palm - Queen	Syagrus	romanzoffiana		Fast		High		
Palm - Triangle	Dypsis	decaryi		Medium		High		
Pepper - Brazilian	Schinus	terebinthifolius		Fast		High		
Pepper - California	Schinus	molle		Fast		High		
Pine - Canary Island	Pinus	canariensis		Medium		High		
Pine - Gray	Pinus	sabiniana		Medium		High		
Pine - Lodgepole	Pinus	contorta		Slow		High		
Poplar	Populus	spp		Fast		High		
Poplar - Lombardy	Populus	nigra 'italica'		Fast		High		
Poplar - White	Populus	alba		Fast		High		
Sycamore	Platanus	occidentalis		Fast		High		
Tanoak	Notholithocarpus	densiflorus		Medium		High		
Tipuana	Tipuana	tipu		Fast		High		
Vine	lvy	spp		Fast		High		
Willow	Salix	spp		Fast		High		
Willow - Weeping	Salix	babylonica		Fast		High		
Acacia	Acacia	spp		Medium		Medium		
Acacia - Bailey	Acacia	baileyana		Medium		Medium		
Acacia - Blackwood	Acacia	melanoxylon		Medium		Medium		
Alder	Alnus	spp		Medium		Medium		
Alder - Red	Alnus	rubra		Medium		Medium		
Alder - White	Alnus	rhombifolia		Medium		Medium		
Aracauria	Araucaria	spp		Medium		Medium		
Araucaria - Bunya Pine	Araucaria	bidwillii		Medium		Medium		
Araucaria - Monkey Puzzle	Araucaria	araucana		Medium		Medium		
Araucaria - Norfolk Island Pine	Araucaria	heterophylla		Medium		Medium		
Avocado	Persea	americana		Medium		Medium		
Bottle	Brachychiton	acerifolius		Medium		Medium		
Camphor	Cinnamomum	camphora		Medium		Medium		
Carob	Ceratonia	siliqua	Medium			Medium		
Carrotwood	Cupaniopsis	anacardioides	Medium			Medium		
Casuarina	Casuarina	equisetifolia	Fast			Medium		
Cedar	Cedrus	spp	Slow			Medium		
Cedar - Atlas	Cedrus	atlantica		Slow		Medium		

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JUE	Regulatory, and Compliance	Choose a Program:	Methodology	Version	8					
	Effective Date 4/1/24									
	Energy for What's Ahead®									
	Transmission Vegetation Management Plan (TVMP)									

Common Name	*	Genus	species	*	Growth Rate	*	Risk Rating	*
Cedar - Deodara		Cedrus	deodara		Slow		Medium	
Cedar - Incense		Calocedrus	decurrens		Slow		Medium	
Cherry		Prunus	avium		Medium		Medium	
Chinaberry		Melia	azedarach		Medium		Medium	
Cow Itch		Lagunaria	patersonia		Medium		Medium	
Elm		Ulmus	spp		Fast		Medium	
Elm - American		Ulmus	americana		Medium		Medium	
Elm - Chinese		Ulmus	parvifolia		Fast		Medium	
Ficus		Ficus	spp		Medium		Medium	
Ficus - Indian Laurel		Ficus	nitida		Medium		Medium	
Ficus - Rusty Leaf Fig		Ficus	rubiginosa		Medium		Medium	
Ficus - Weeping Fig		Ficus	benjamina		Medium		Medium	
Fir - White		Abies	concolor		Slow		Medium	
Golden Rain		Koelreuteria	paniculata		Medium		Medium	
Grevillea - Banks		Grevillea	banksii		Medium		Medium	
Hackberry		Celtis	reticulata		Fast		Medium	
Laurel - Bay		Laurus	nobilis		Medium		Medium	
Laurel - California Bay		Umbellularia	californica		Medium		Medium	
Magnolia - Southern		Magnolia	grandiflora		Medium		Medium	
Mayten		Maytenus	boaria		Medium		Medium	
Melaleuca		Melaleuca	linariifolia		Medium		Medium	
Oak - Canyon Live		Quercus	chrusolepis		Slow		Medium	
Oak - Interior Live		Quercus	wislizeni		Slow		Medium	
Oak - Pin		Quercus	palustris		Medium		Medium	
Orchid		Bauhinia	spp		Medium		Medium	
Other		Misc	spp		Medium		Medium	
Other - Fast Growing		Misc	spp		Fast		Medium	
Other - Medium Growing		Misc	spp		Medium		Medium	
Palo Verde		Parkinsonia	spp		Medium		Medium	
Pecan		Carya	illinoinensis		Fast		Medium	
Pine - Bishop		Pinus	muricata		Slow		Medium	
Pine - Italian Stone		Pinus	pinea		Slow		Medium	
Pine - Ponderosa		Pinus	ponderosa		Slow		Medium	
Pistache		Pistacia	chinensis		Medium		Medium	
Podocarpus		Podocarpus	spp		Medium		Medium	
Rubber		Ficus	elastica		Medium		Medium	
Sequoia - Coast Redwood		Sequoia	sempervirens	Slow		Medium		
Silk Floss		Ceiba	speciosa		Medium		Medium	
Silk Oak		Grevillea	robusta		Fast		Medium	

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	Regulatory, and Compliance	Choose a Program:	Methodology	Version	8	SOUTHERN CALIFORNIA EDISON®				
	Energy for What's Ahead [™]									
	Energy for what o Alloud									
	Transmission Vegetation Management Plan (TVMP)									

Common Name	Genus	species	× (Growth Rate	٣	Risk Rating	*	
Sumac	Rhus	spp	Mediu	m		Medium		
Tallow	Triadica	spp	Mediu	Medium		Medium		
Tulip	Liriodendron	tulipifera	Mediu	Medium		Medium		
Walnut	Juglans	spp	Fast			Medium		
Walnut - Black	Juglans	californica	Fast			Medium		
Walnut - English	Juglans	regia	Fast			Medium		
Willow - Australian	Geijera	parviflora	Mediu	m		Medium		
Zelkova	Zelkova	serrat	Mediu	m		Medium		
Almond	Prunus	amygdalus	Mediu	m		Low		
Apple	Malus	domestica	Mediu	m		Low		
Beech	Fagus	spp	Slow			Low		
Birch	Betula	spp	Slow			Low		
Bird of Paradise	Strelitzia	spp	Mediu	m		Low		
Bottlebrush	Callistemon	citrinus	Mediu	m		Low		
Brisbane Box	Lophostemon	confertus	Mediu	m		Low		
Brush	Misc	spp	Slow			Low		
Brush - Fast	Misc	spp	Fast			Low		
Buckeye	Aesculus	californica	Slow			Low		
Ceanothus	Ceanothus	spp	Slow			Low		
Chestnut	Castanea	seguinii	Mediu	m		Low		
Citrus	Citrus	spp	Mediu	m		Low		
Cypress	Cupressus	spp	Slow			Low		
Cypress - Italian	Cupressus	sempervirens	Slow			Low		
Cypress - Monterey	Cupressus	macrocarpa	Slow			Low		
Dogwood-Pacific	Cornus	nuttallii	Slow			Low		
Elderberry	Sambucus	spp	Mediu	m		Low		
Eugenia	Syzygium	paniculatum	Mediu	m		Low		
Fir	Abies	spp	Slow			Low		
Fir - Douglas	Pseudotsuga	menziesii	Slow			Low		
Fir - Grand	Abies	grandis	Slow			Low		
Fir - Red	Abies	magnifica	Slow			Low		
Fruit Tree	Misc	spp	Medium			Low		
Ginkgo - Maidenhair	Ginkgo	biloba	Medium			Low		
Hawthorn	Crataegus	spp	Slow			Low		
Hemlock	Tsuga	spp	Slow			Low		
Hemlock - Western	Tsuga	heterophylla	Slow			Low		
Hickory	Carya	spp	Medium		Low			
Joshua	Yucca	brevilfolia	Slow			Low		
Juniper	Juniperus	spp	Slow			Low		

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	Regulatory, and Compliance	Choose a Program:	Methodology	Version	8					
	EDISON Energy for What's Ahead [™]									
	Energy for what's Anoda									
	Transmission Vegetation Management Plan (TVMP)									

Common Name	-	Genus	¥	species	Ŧ	Growth Rate	*	Risk Rating	٣		
Linden		Tilia		spp		Slow		Low			
Loquat		Eriobotrya		japonica		Slow		Low			
Macadamia		Macadamia		tetraphylla		Medium		Low			
Madrone		Arbutus		meniesii		Slow		Low			
Magnolia - Saucer		Magnolia		soulangeana		Slow		Low			
Magnolia - Star		Magnolia		stellata		Slow		Low			
Mesquite		Prosopis		glandulosa		Medium		Low			
Myoporum		Myoporum		laetum		Slow		Low			
Myrtle - Crape		Lagerstroemia		Indica		Slow		Low			
Myrtle - Pacific Wax		Myrica		cerifera		Slow		Low			
New Zealand Christmas Tree		Metrosideros		excelsa		Slow		Low			
Oak		Quercus		spp		Slow		Low			
Oak - Blue		Quercus		douglasii		Slow		Low			
Oak - Coast Live		Quercus		agrifolia		Slow		Low			
Oak - Cork		Quercus		suber		Slow		Low			
Oak - English		Quercus		robur		Slow		Low			
Oak - Holly		Quercus		ilex		Slow		Low			
Oak - Northern Red		Quercus		rubra		Slow		Low			
Oak - Oracle		Quercus		x morehus		Slow		Low			
Oak - Oregon White		Quercus		garryana		Slow		Low			
Oak - Scrub		Quercus		dumosa		Slow		Low			
Oleander		Nerium		oleander		Slow		Low			
Olive		Olea		europaea		Medium		Low			
Other - Slow Growing		Misc		spp		Slow		Low			
Peach		Prunus		persica		Medium		Low			
Pear		Pyrus		calleryana		Medium		Low			
Pear - Evergreen		Pyrus		kawakamii		Medium		Low			
Persimmon		Diospyros		texana		Slow		Low			
Photinia		Photinia		fraseri		Slow		Low			
Pine		Pinus		spp		Slow		Low			
Pine - Aleppo		Pinus		halepensis		Slow		Low			
Pine - Jeffery		Pinus		jeffreyi		Slow		Low			
Pine - Knobcone		Pinus		attenuata		Slow		Low			
Pine - Monterey		Pinus		radiata		Slow		Low			
Pine - Sugar		Pinus		lambertiana		Slow		Low			
Pine - Western white		Pinus		monticola		Slow		Low			
Pine - Whitebark		Pinus		albicaulis	Slow			Low			
Pistachio		Pistacia		vera		Slow		Low			
Pittosporum		Pittosporum		undulatum		Slow		Low			

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JUL	Regulatory, and Compliance	Choose a Program:	Methodology	Version	8	SOUTHERN CALIFORNIA EDISON®					
	Energy for What's Ahead										
	Energy for white Anoda										
	Transmission Vegetation Management Plan (TVMP)										

Common Name	*	Genus	-	species	٣	Growth Rate	*	Risk Rating
Plum		Prunus		domestica		Medium		Low
Pomegranate		Punica		granatum		Slow		Low
Privet		Ligustrum		japonicum		Slow		Low
Redbud - Eastern		Cercis		canadensis		Slow		Low
Redbud - Western		Cercis		occidentalis		Slow		Low
Redwood - Dawn		Metasequoia		glypostro boides		Slow		Low
Sequoia - Giant		Sequoiadendron		giganteum		Slow		Low
Spruce		Picea		spp		Slow		Low
Spruce - Blue		Picea		pungens		Slow		Low
Toyon		Heteromeles		arbutifolia		Slow		Low

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	Supersedes Version 7	Effective Date 4/1/24	Compliance	Legal,
Transmission Vegetation Management Plan (TVMP)	Version 7	4/1/24	Choose a Program:	Transmission & Distribution
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ent Plan (Version	Doc. No. UVM-02
TVMP)			8	UVM-02
	97	Fnerav	¥	
		Energy for What's Ahead [®]	SOUTHERN CALIFORNIA	

Attachment C

FAC-003 — TABLE 2 — Minimum Vegetation Clearance Distances (MVCD)¹⁷

				FAC-	003 — T				etation C urrent Vo			es (MVC	D) ¹⁷				
(10)	(10)	MVCD	MVCD	MVCD	MVCD	MVCD	MVCD	MVCD	MVCD	MVCD	MVCD	MVCD	MVCD	MVCD	MVCD	MVCD	MVCD
	(AC) Maximu	(feet)	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet
	n System Voltage	Over sea level up	Over 500 ft up to	Over 1000 ft	Over 2000 ft	Over 3000 ft	Over 4000 ft	Over 5000 ft	Over 6000 ft	Over 7000 ft	Over 8000 ft	Over 9000 ft	Over 10000 ft	Over 11000 ft	Over 12000 ft	Over 13000 ft	Over 14000 ft
	(kV)18	to 500 ft	1000 ft	up to	up to	up to	up to	up to	up to	up to	up to	up to	up to	up to	up to	up to	up to
				2000 ft	3000 ft	4000 ft	5000 ft	6000 ft	7000 ft	8000 ft	9000 ft	10000 ft	11000 ft	12000 ft	13000 ft	14000 ft	15000 ft
765	800	11.6ft	11.7ft	11.9ft	12.1ft	12.2ft	12.4ft	12.6ft	12.8ft	13.0ft	13.1ft	13.3ft	13.5ft	13.7ft	13.9ft	14.1ft	14.3ft
500	550	7.0ft	7.1ft	7.2ft	7.4ft	7.5ft	7.6ft	7.8ft	7.9ft	8.1ft	8.2ft	8.3ft	8.5ft	8.6ft	8.8ft	8.9ft	9.1ft
345	362 ¹⁹	4.3ft	4.3ft	4.4ft	4.5ft	4.6ft	4.7ft	4.8ft	4.9ft	5.0ft	5.1ft	5.2ft	5.3ft	5.4ft	5.5ft	5.6ft	5.7ft
287	302	5.2ft	5.3ft	5.4ft	5.5ft	5.6ft	5.7ft	5.8ft	5.9ft	6.1ft	6.2ft	6.3ft	6.4ft	6.5ft	6.6ft	6.8ft	6.9ft
230	242	4.0ft	4.1ft	4.2ft	4.3ft	4.3ft	4.4ft	4.5ft	4.6ft	4.7ft	4.8ft	4.9ft	5.0ft	5.1ft	5.2ft	5.3ft	5.4ft
161*	169	2.7ft	2.7ft	2.8ft	2.9ft	2.9ft	3.0ft	3.0ft	3.1ft	3.2ft	3.3ft	3.3ft	3.4ft	3.5ft	3.6ft	3.7ft	3.8ft
138*	145	2.3ft	2.3ft	2.4ft	2.4ft	2.5ft	2.5ft	2.6ft	2.7ft	2.7ft	2.8ft	2.8ft	2.9ft	3.0ft	3.0ft	3.1ft	3.2ft
115*	121	1.9ft	1.9ft	1.9ft	2.0ft	2.0ft	2.1ft	2.1ft	2.2ft	2.2ft	2.3ft	2.3ft	2.4ft	2.5ft	2.5ft	2.6ft	2.7ft
88*	100	1.5ft	1.5ft	1.6ft	1.6ft	1.7ft	1.7ft	1.8ft	1.8ft	1.8ft	1.9ft	1.9ft	2.0ft	2.0ft	2.1ft	2.2ft	2.2ft
69*	72	1.1ft	1.1ft	1.1ft	1.2ft	1.2ft	1.2ft	1.2ft	1.3ft	1.3ft	1.3ft	1.4ft	1.4ft	1.4ft	1.5ft	1.6ft	1.6ft
	val	(refer to Fable 2 – Ta lues were si	s are applica the Applica ble of MVCC ubsequently this Table a time of veg	bility Sectio) values at a provided by	n above) 1.0 gap fac v EPRI in an nums requir	tor (in U.S. a updated Tal	customary u ble 2 on Dec	nits), which ember 1, 20	is located ir 15, filed wit	h the FAC-0	03-4 Petitio	n at FERC)					

SCE	Legal, Regulatory, and Compliance	Transmission & Distribution Choose a Program:	Methodology	Doc. No. Version	UVM-02 8	SOUTHERN CALIFORNIA			
	Compliance		EDISON °						
		Energy for What's Ahead [™]							
	Energy for white s Anoda								
Transmission Vegetation Management Plan (TVMP)									

Attachment D UVM Outage Investigation Report

		SOUTHERN CALIFORNIA EDISON [®]	
		As EDITOR INTERNATIONAL Company GP-4: Tree-Caused Circuit Interruption Fact-Finding Procedures	
		GP-4: Tree-Gaused Circuit Interruption Fact-Finding Frocedures	
1.0	Purpose		
	This procedure provides the requirements for field review of tree-caused circuit interruptions (TCCIs) and validation of interruption causes.		
2.0	Policy Statements		
	Vege agair	a practice of the Vegetation Management department to review, validate, and document in etation Management database findings of known tree-caused circuit interruptions charged nst the Vegetation Management Department. The Vegetation Management Department ild maintain a listing of validated tree-caused circuit interruptions.	
3.0	References		
	3.1	Grid Control Center (GCC) and T&D Joint Morning Reports	
	3.2	Vegetation Management Tree-Caused Circuit Interruption Report	
4.0	Operations		
	Reported tree-caused circuit interruptions should be reviewed by Vegetation Management Technical Specialists to determine cause, validity, and correction.		
	4.1 If the identified tree is determined not to be the actual cause of the circuit interruption, Vegetation Management Technical Specialists will notify the Distribution Operations Center (DOC) that the field review shows the identified tree as not being the cause of the reported interruption. The Vegetation Management Technical Specialists will request the cause code be changed from "Tree Caused" to "No Cause Found" or another cause code determined by the DOC.		
	4.2	If the tree is determined to be the reported cause of the circuit interruption, Vegetation Management Technical Specialists will create a Vegetation Management Interruption Da Report. The Vegetation Management Technical Specialists will identify all outage-relate data. The Vegetation Management Interruption Data Report should contain the following	ed
		Work location	
		Circuit name	
		Date/time	
		Number of operations	
		Tree normally trimmed	
		Determination of whether the outage was controllable	
		Type of tree	
		Name of investigator Tree location	
		Iree location Determination of cause	
		Action/remarks	
	4.3	The Vegetation Management Technical Specialists will schedule any required tree maintenance to correct the cause of the circuit interruption. This may include a request trim/remove the identified tree.	to
FFECTIVE I 6-1-	DATE 2013	Tree-Caused Circuit Interruption Fact-Finding Procedures GP-4	i <u>-</u>
PPROVED	M	Vegetation Management Operations Manual	

EXAMPLE

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Page 34 of 34