

# WILDFIRE MITIGATION PLAN

2024 Update

## ABSTRACT

This document was developed for the purpose of establishing protocol to mitigate the risk(s) associated with wildfires. This document takes the latest and mandatory elements for a wildfire mitigation plan under consideration. However, readers should seek the advice of an attorney when confronted with legal issues, and attorneys should perform an independent evaluation of the issues raised in this document.

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1 **II. Executive Summary**

2 Trinity Public Utilities District (TPUD or District) Wildfire Mitigation Plan (WMP or Plan) is a  
3 structured protocol to mitigate the risk of TPUD's electric utility infrastructure causing a  
4 wildfire. Included are the steps, programs, policies, and procedures implemented by TPUD  
5 to reduce these risks and minimize impacts to customers. It complies with the requirements  
6 of Public Utilities Code Section 8387 for publicly owned electric utilities to prepare a wildfire  
7 mitigation plan by January 1, 2020, and update/review the plan annually thereafter.

8 **III. Utility Overview and Context**

9 **A. Utility Description and Context Setting Table**

10 CP National, a small private utility, had been supplying retail electric service to the  
11 residents of Weaverville since the 1930s. At that time, CP National's electric rates were the  
12 highest in the state. To reduce the relatively high cost of electricity, TPUD was formed in  
13 1981. In 1982, the newly formed Trinity Public Utilities District purchased CP National  
14 facilities. Since TPUD's creation, area customers have gone from paying the highest rates  
15 in the state to paying the lowest.

16 TPUD operates out of an office located in Trinity County, in the county seat of Weaverville,  
17 California. TPUD transmits and distributes electricity within a 2,200 square-mile territory that  
18 includes the principal parts of Trinity County. As a public utility, TPUD is governed by a five-  
19 member popularly elected Board of Directors that determines policy and appoints the  
20 General Manager (or his or her designee), who is responsible for TPUD's overall  
21 management and operations.

22 TPUD owns, operates, and has ownership interests that are critical to maintaining the flow  
23 of power from generating facilities through the transmission lines to TPUD's service area.

24 Located in the lower reaches of the Cascade Range in Northern California, TPUD is the  
25 primary distributor of electric power within an area of approximately 2,200 square miles,  
26 which is about 95% of Trinity County's habitable area. Located midway between Redding  
27 in Shasta County and the Northern Redwood Coast, the service area is the fourth least  
28 populous county in the state.

29 TPUD's electric system supplies power to a population of approximately 13,000 with a total  
30 annual retail load of approximately 121 million kilowatt hours (kWh) for the year ending  
31 December 31, 2023. TPUD's annual peak load has averaged 24 Megawatts (MW) over  
32 the last three years.

33 Timber harvesting, government employment, and recreational tourism serve as the major  
34 sectors of employment and industry in the area. Customer classes include residential,  
35 government, agricultural, commercial, industrial, and high impact in a largely  
36 rural/forested service territory.

37

1 Table 1: TPUD Context Summary

	TPUD	
<b>Service Territory Size</b>	2,200 square miles	
<b>Owned Assets</b>	<ul style="list-style-type: none"> <li>• Sub-Transmission</li> <li>• Distribution</li> </ul>	
<b>Number of Customers Served</b>	7,296 of electric customer accounts as of 4/30/2024	
<b>Population within Service Territory</b>	Approx. 13,000	
<b>Customer Class Makeup</b>	<b>Number of Accounts 7,296</b>	<b>Share of Total Load (MWh) 100%</b>
	Residential Government Agricultural Small/Medium Business Commercial/Industrial	Residential Government Agricultural Small/Medium Business Commercial/Industrial
<b>Service Territory Location/Topography</b>	Agriculture Conifer Forest Conifer Woodland	Hardwood Woodland Herbaceous Shrub
<b>Service Territory Wildland Urban Interface (based on total area)</b>	Wildland Urban Interface Wildland Urban Intermix	
<b>Percent of Service Territory in CPUC High Fire-Threat Districts (based on total area)</b>	<ul style="list-style-type: none"> <li>• Includes maps</li> <li>Tier 2: 100%</li> <li>Tier 3: 0%</li> </ul>	
<b>Prevailing Wind Directions &amp; Speeds by Season</b>	Wind direction is northwestern.	
<b>Miles of Owned Lines Underground and/or Overhead</b>	Overhead Distribution: 559 miles Overhead Transmission: 30 miles Underground Distribution: 155 miles Underground Transmission: 0 miles	
<b>Percent of Owned Lines in CPUC High Fire-Threat Districts</b>	Overhead Distribution Lines as % of Total Distribution System (Inside and Outside Service Territory)	Tier 2: 100% Tier 3: 0%
	Overhead Transmission Lines as % of Total Transmission System (Inside and Outside Service Territory)	Tier 2: 100% Tier 3: 0%
<b>Customers have ever lost service due to an IOU PSPS event?</b>	Yes	
<b>Customers have ever been notified of a potential loss of service due to a forecasted IOU PSPS event?</b>	Yes	
<b>Has developed protocols to pre-emptively shut off electricity in response to elevated wildfire risks?</b>	Yes	
<b>Has previously pre-emptively shut off electricity in response to elevated wildfire risk?</b>	No	

2 B. Statutory Cross-Reference Table

3 Table 2 below summarizes the elements required in PUC Section 8387 and their location  
4 within the WMP.

1 Table 2: Compliance with Public Utilities Code Section 8387(b)

Requirement	Statutory Language	Plan Section
<b>Persons Responsible</b>	<b>PUC § 8387(b)(2)(A):</b> An accounting of the responsibilities of persons responsible for executing the plan.	Sec. III. E.; Sec. V. A.
<b>Objectives of the Plan</b>	<b>PUC § 8387(b)(2)(B):</b> The objectives of the wildfire mitigation plan.	Sec. IV.
<b>Preventative Strategies</b>	<b>PUC § 8387(b)(2)(C):</b> A description of the preventative strategies and programs to be adopted by the local publicly owned electric utility or electrical cooperative to minimize the risk of its electrical lines and equipment causing catastrophic wildfires, including consideration of dynamic climate change risks.	Sec. VII. A. – I.
<b>Evaluation Metrics</b>	<b>PUC § 8387(b)(2)(D):</b> A description of the metrics the local publicly owned electric utility or electrical cooperative plans to use to evaluate the wildfire mitigation plan's performance and the assumptions that underlie the use of those metrics.	Sec. X. A.
<b>Impact of Metrics</b>	<b>PUC § 8387(b)(2)(E):</b> A discussion of how the application of previously identified metrics to previous wildfire mitigation plan performances has informed the wildfire mitigation plan.	Sec. X. B.
<b>Deenergization Protocols</b>	<b>PUC § 8387(b)(2)(F):</b> Protocols for disabling reclosers and deenergizing portions of the electrical distribution system that consider the associated impacts on public safety, as well as protocols related to mitigating the public safety impacts of those protocols, including impacts on critical first responders and on health and communication infrastructure.	Sec. VII. I.
<b>Customer Notification Procedures</b>	<b>PUC § 8387(b)(2)(G):</b> Appropriate and feasible procedures for notifying a customer who may be impacted by the deenergizing of electrical lines. The procedures shall consider the need to notify, as a priority, critical first responders, health care facilities, and operators of telecommunications infrastructure.	Sec. VII. I. Sec. VIII.
<b>Vegetation Management</b>	<b>PUC § 8387(b)(2)(H):</b> Plans for vegetation management.	Sec. VII. E.

Requirement	Statutory Language	Plan Section
<b>Inspections</b>	<b>PUC § 8387(b)(2)(I):</b> Plans for inspections of the local publicly owned electric utility's or electrical cooperative's electrical infrastructure.	Sec. VII. F.
<b>Prioritization of Wildfire Risks</b>	<b>PUC § 8387(b)(2)(J):</b> A list that identifies, describes, and prioritizes all wildfire risks, and drivers for those risks, throughout the local publicly owned electric utility's or electrical cooperative's service territory. The list shall include, but not be limited to, both of the following: <ul style="list-style-type: none"> <li>i. Risks and risk drivers associated with design, construction, operation, and maintenance of the local publicly owned electric utility's or electrical cooperative's equipment and facilities.</li> <li>ii. Particular risks and risk drivers associated with topographic and climatological risk factors throughout the different parts of the local publicly owned electric utility's or electrical cooperative's service territory.</li> </ul>	Sec. VI. A.
<b>CPUC Fire-Threat Map Adjustments</b>	<b>PUC § 8387(b)(2)(K):</b> Identification of any geographic area in the local publicly owned electric utility's or electrical cooperative's service territory that is a higher wildfire threat than is identified in a commission fire threat map, and identification of where the commission should expand a high fire-threat district based on new information or changes to the environment.	Sec. VI. C.
<b>Enterprise-wide Risks</b>	<b>PUC § 8387(b)(2)(L):</b> A methodology for identifying and presenting enterprise-wide safety risk and wildfire-related risk.	Sec. VI. B.
<b>Restoration of Service</b>	<b>PUC § 8387(b)(2)(M):</b> A statement of how the local publicly owned electric utility or electrical cooperative will restore service after a wildfire.	Sec. IX. A.
<b>Monitor and Audit</b>	<b>PUC § 8387(b)(2)(N):</b> A description of the processes and procedures the local publicly owned electric utility or electrical cooperative shall use to do all the following: <ul style="list-style-type: none"> <li>i. Monitor and audit the implementation of the wildfire mitigation plan.</li> <li>ii. Identify any deficiencies in the wildfire mitigation plan or its implementation and correct those deficiencies.</li> </ul>	Sec. X. C., D.

Requirement	Statutory Language	Plan Section
	iii. Monitor and audit the effectiveness of electrical line and equipment inspections, including inspections performed by contractors that are conducted under the plan, other applicable statutes, or commission rules.	
<b>Qualified Independent Evaluator</b>	<b>PUC § 8387(c):</b> The local publicly owned electric utility or electrical cooperative shall contract with a qualified independent evaluator with experience in assessing the safe operation of electrical infrastructure to review and assess the comprehensiveness of its wildfire mitigation plan. The independent evaluator shall issue a report that shall be made available on the Internet Web site of the local publicly owned electric utility or electrical cooperative and shall present the report at a public meeting of the local publicly owned electric utility's or electrical cooperative's governing board.	Sec. XI.

1 **C. Process for Utility Adoption and Submittal of Annual WMP and Opportunities for Public**  
 2 **Comment**

3 The initial draft of the updated 2023 WMP was posted on TPUD's website and made  
 4 available for public comment for 30 days. The public and interested parties were invited  
 5 to comment on the Plan at the time it is presented to TPUD's Board of Directors in a  
 6 properly noticed public meeting. The General Manager (or his or her designee) will at  
 7 least, on a semi-annual basis, identify deficiencies or recommendations for updating the  
 8 Plan.

9 **D. Description of Where WMP Information Can Be Found on Utility Website**

10 Customers can visit the [Trinitypud.com](http://Trinitypud.com) website for information where they will be able to  
 11 find the following:

- 12 • Generator safety information
- 13 • Links to the National Weather Service
- 14 • Links to additional resources
- 15 • Fire safety and preparedness
- 16 • CodeRED emergency alert system
- 17 • Trinity County website
- 18 • Caltrans

19 **E. Purpose of the Wildfire Mitigation Plan**

20 This Plan describes TPUD's strategies and programs to mitigate the threat of power line-  
 21 ignited wildfires. It addresses the unique features of TPUD's service area such as

1 topography, weather, infrastructure, grid configuration, and potential wildfire risks. This  
2 plan is subject to direct supervision by TPUD's Board of Directors, and primary responsibility  
3 for its implementation resides with the General Manager (or his or her designee). This plan  
4 meets or exceeds the requirements of PUC Section 8387 for publicly owned electric utilities  
5 to prepare a WMP by January 1, 2020, and to evaluate and update annually by July 1  
6 beginning in 2021 thereafter. Table 2 outlines the WMP's code compliance with 8387 and  
7 the corresponding sections within the Plan.

8 **F. Organization of the Wildfire Mitigation Plan**

9 This wildfire mitigation plan includes the following elements:

- 10 • Executive summary
- 11 • Utility overview and context
- 12 • Objectives of the plan
- 13 • Roles and responsibilities for conducting the plan
- 14 • Identification of key wildfire risks and risk drivers
- 15 • Description of wildfire mitigation strategies
- 16 • Metrics for measuring the performance of the plan and identifying areas for  
17 improvement
- 18 • Annual and historical results for metrics
- 19 • Description of community outreach and education

20 **IV. Objectives of the Wildfire Mitigation Plan**

21 The main objective of the WMP is to implement an actionable plan that will create  
22 increased reliability and safety while minimizing the probability that TPUD assets may be  
23 the origin or contributing factor in a wildfire ignition. The plan embraces safety,  
24 prevention, mitigation, and recovery programs that are consistent with California State  
25 Law.

26 As part of the plan development, TPUD assessed new industry practices and technologies  
27 that will reduce the likelihood of an interruption in service and reduce the duration of an  
28 outage.

29 The Plan also addresses policies related to customer outreach and assistance programs,  
30 communications with local agencies, and service restoration after a disaster event.

31 The secondary objective is to measure, through the annual evaluation of the matrix, the  
32 effectiveness of the specific wildfire mitigation strategies as they apply to TPUD. Where a  
33 particular action, program component, or protocol is determined to be unnecessary or  
34 ineffective, TPUD will assess whether modification or replacement is suitable.

35 Included within this Plan are the various programs, practices, and procedures that TPUD  
36 utilizes to comply with PUC Section 8387, which requires publicly owned electric utilities to  
37 prepare a wildfire mitigation plan by January 1, 2020. After January 1, 2021, a local  
38 publicly owned utility shall submit the WMP to the California Wildfire Safety Advisory Board  
39 on or before July 1 of each year. Each local publicly owned electric utility and electric

1 cooperative shall update its plan annually and submit the update to the California Wildfire  
2 Safety Advisory Board by July 1 of each year. At least once every three years, the  
3 submission shall be a comprehensive plan revision.

4 PUC Section 8387(c) requires TPUD to contract with a qualified independent evaluator  
5 with experience in assessing the safe operation of electrical infrastructure to review and  
6 assess the comprehensiveness of this WMP.

7 TPUD shall accept comments on its WMP and the third-party assessment from the public,  
8 other local and state agencies, and interested parties, in an appropriately noticed public  
9 meeting and shall verify that the WMP complies with all applicable rules, regulations, and  
10 standards as appropriate.

### 11 **A. Minimizing Sources of Ignition**

12 The State of California has experienced some of the most devastating and catastrophic  
13 wildfires in the nation's history. Due to the fatalities and damages resulting from these  
14 catastrophic wildfires, the State of California signed Senate Bill (SB) No. 901 into law on  
15 September 21, 2018, which amended Public Utilities Code (PUC) Section 8387, requiring  
16 every local publicly owned electric utility to prepare a wildfire mitigation plan. To  
17 safeguard their electrical systems, utilities are now required to implement a WMP to  
18 comply with the state's Public Utility Code Division 4.1, Chapter 6, Section 8387<sup>1</sup> by  
19 January 1, 2020. Section 8387 requires every publicly owned electric utility (POU) to  
20 construct, maintain, and operate its electrical facilities and equipment in ways that  
21 minimize the risk of wildfire posed by those facilities and equipment to be adopted by  
22 January 1, 2020, and annually thereafter.

23 Fire mitigation has been an integral part of TPUD's operational practices for years, and  
24 TPUD has several existing policies, programs, and procedures in place that directly or  
25 indirectly manage or reduce this risk. Over time, TPUD has adopted additional fire  
26 mitigation programs to adjust to changes in fire-related conditions as well as  
27 technological advances and improved operational practices. TPUD continues to  
28 evaluate and implement new technologies and operating practices to further mitigate  
29 the potential for ignitions and to better respond to high wildfire risk conditions.

30 The strategies, programs, and activities included in this WMP with associated goals and  
31 metrics are an effective approach to reduce fire-related risk for TPUD's customers in the near  
32 term and will allow for refinement and improvement over time. As new information is obtained  
33 and experience is gained by implementing these mitigation programs in this WMP, the  
34 District will assess, evaluate, and enhance its wildfire risk mitigation strategies. This plan will  
35 also describe vegetation management, asset inspection and maintenance, recloser setting  
36 protocols, and communication plans as well as the service-restoration process. Plan

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<sup>1</sup> Amended by Stats. 2018, Ch. 626, Sec 42. (SB 901) Effective January 1, 2019

1 ownership, performance metrics, and deficiency identification are included, as well as the  
2 plan audit and approval process.

### 3 **B. Resiliency of the Electric Grid**

4 TPUD owns and operates an electric system that includes sub-transmission and distribution  
5 facilities. TPUD has been providing 100% renewable hydroelectricity to its customers since  
6 1982. The Western Area Power Administration (WAPA) supplies power to TPUD bulk power  
7 substations through a 60 kilovolt (kV) transmission system. This system receives power from  
8 the 140 kW US Bureau of Reclamation generation plant at the Trinity Dam and is wheeled  
9 by WAPA transmission lines. Power is distributed throughout Trinity County via a 60kV,  
10 21 kV, 12.47 kV, 12 kV, and 7.2 kV distribution system. The distribution system serving TPUD's  
11 service territory is comprised of 60 kV and 115 kV substations with overhead and  
12 underground distribution circuits.

13 Since 1982, TPUD has provided safe, dependable, and affordable electricity; excellent  
14 customer service; community value; innovation; and environmental leadership to its  
15 customers.

16 The Board has adopted a set of Strategic Directions (SDs) with related metrics, which it  
17 considers essential to the organization's continued success and its customer service.  
18 These include safety, reliability, competitive rates, enterprise risk management (ERM),  
19 customer relations, environmental leadership, and resource planning. The SDs are used as  
20 a guide in the decisions made about TPUD's policies and operations. The Board  
21 continually reviews and refines these guidelines to make sure customer energy needs are  
22 met both now and in the future.

### 23 **C. Minimizing Unnecessary or Ineffective Actions**

24 Another objective is to measure, through the annual evaluation of the matrix, the  
25 effectiveness of the specific wildfire mitigation strategies as they apply to TPUD. Where a  
26 particular action, program component, or protocol is determined to be unnecessary or  
27 ineffective, TPUD will assess whether modification or replacement is suitable.

## 28 **V. Roles and Responsibilities**

### 29 **A. TPUD Roles and Responsibilities**

30 TPUD is designated a Special District and is considered a local government agency. As  
31 such, TPUD has planning, communication, and coordination obligations pursuant to the  
32 California Office of Emergency Services' Standardized Emergency Management System  
33 (SEMS) Regulations.<sup>2</sup> The standard organizational model is based on an approach called  
34 the Incident Command System (ICS) that fire departments developed to give them a  
35 common language when requesting personnel and equipment from other agencies and

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<sup>2</sup> Ch 7 of Div. 2 of §8607

1 to give them common tactics when responding to emergencies.<sup>3</sup> CCR, Title §2403 specifies  
2 five levels of the SEMS organization, which are activated as necessary. The five levels are  
3 outlined briefly below:

4 **Field Response:** Local emergency response personnel and resources, under the  
5 command of an appropriate authority, conduct tactical decisions and activities in direct  
6 response to an incident or threat.

7 **Local Government:** Local governments manage and coordinate the overall emergency  
8 response and recovery activities within their jurisdiction. CCR, Title 19, §2407 states that  
9 SEMS shall be utilized when the local government Emergency Operation Center (EOC) is  
10 activated and when a local emergency is declared or proclaimed.

11 **Operational Area:** OA means an intermediate level of the state's emergency services  
12 organization that encompasses the county and all political subdivisions within the county,  
13 including Special Districts.

14 **Regional:** The state has been divided into six mutual aid regions to provide for more  
15 effective application and coordination of mutual aid and other emergency-related  
16 activities.

17 **State:** This level manages state resources in response to the emergency needs of the other  
18 levels and coordinates mutual aid among the mutual aid regions and between the  
19 regional level and state level. It serves as the coordination and communication link  
20 between the state and the federal disaster response system.

## 21 **Plan Accountability**

22 The Board of Directors makes policy decisions relative to TPUD; they are responsible for  
23 approving and adopting the Wildfire Mitigation plan. The GM directs management staff  
24 responsible for operations, customer service, and finance. The Electric Superintendent  
25 supervises the System Engineer and Supervising Foreman. The Administrative Services  
26 Manager supervises customer service, billing and accounting clerks. The Vegetation  
27 Program Manager supervises the contract tree crews, the meter technicians and the  
28 District's drone program. The Chief Financial Officer is responsible for District finances.

29 The GM is responsible for executing the WMP. Staff will be directed as to their roles and  
30 responsibilities. The GM, or designee, is responsible for communicating with public safety,  
31 media outlets, public agencies, first responders, local Office of Emergency Services, and  
32 health agencies during an emergency or planned maintenance outages. The GM  
33 determines when and how to notify outside agencies in cases of wildfire emergency  
34 events.

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<sup>3</sup> SEMS Guidance for Special Districts

1 **Operating Unit Responsibility**

2 Table 3 identifies the Departments responsible for tracking and implementing the various  
 3 components of the WMP.

4 **Table 3. Accountability of Plan Information**

MITIGATION ACTIVITIES	RESPONSIBLE DEPARTMENT AND WORKGROUP
Risk Analysis	General Manager
Fire threat assessment in service territory	Distribution System Operations & Maintenance Planning
Wildfire Prevention Strategy Programs	
<ul style="list-style-type: none"> <li>• Disable reclosers</li> <li>• Weather station monitoring</li> <li>• Planned de-energization</li> </ul>	Grid Strategy & Operation: Grid Operations T&D System Operations, Distribution System Operations
<ul style="list-style-type: none"> <li>• T&amp;D line patrols</li> <li>• Aerial patrols</li> <li>• 60 kV &amp; sub-transmission line infrared inspections</li> <li>• Wood pole intrusive inspection</li> <li>• Detailed line inspections</li> </ul>	Grid Assets: Line Assets, Distribution System Operations, Vegetation Management
<ul style="list-style-type: none"> <li>• Substation visual and detailed inspections</li> <li>• Substation infrared inspections</li> </ul>	Grid Assets: T&D Substation Maintenance
<ul style="list-style-type: none"> <li>• Vegetation management</li> <li>• Pole clearing program</li> <li>• Line Patrols</li> </ul>	Grid Assets: Vegetation Management
<ul style="list-style-type: none"> <li>•</li> </ul>	
Fire Mitigation Construction	
<ul style="list-style-type: none"> <li>• Ester Based Cooling Fluid</li> <li>• Non-expulsion equipment</li> <li>• Legacy Tree Attachment</li> <li>•</li> </ul>	Distribution System Operations Maintenance: Design & Standards

5

MITIGATION ACTIVITIES		RESPONSIBLE DEPARTMENT AND WORKGROUP
System Enhancement Capital Projects		
<ul style="list-style-type: none"> <li>• <b>Install non-expulsion equipment in high-risk areas</b></li> </ul>	<b>Distribution System Operations &amp; Maintenance: T&amp;D Maintenance Planning, Grid Assets: Line Assets</b>	
Pilot Projects		
<ul style="list-style-type: none"> <li>•</li> </ul>		
<ul style="list-style-type: none"> <li>• <b>Radio communications</b></li> </ul>	<b>Grid Strategy &amp; Operation: Grid Operations</b>	
Emergency Preparedness		
<ul style="list-style-type: none"> <li>• <b>TPUD Emergency Operations Center</b></li> </ul>	<b>Workforce and Enterprise Services: Facilities Operations</b>	
<ul style="list-style-type: none"> <li>• <b>Public and agency communications for wildfires</b></li> </ul>	<b>Customer &amp; Community Services: Revenue Operations, Communications Marketing &amp; Community Relations</b>	

1

2 **B. Coordination with Water Utilities/Department**

3 TPUD coordinates emergency response efforts with Trinity County Office of Emergency  
4 Services who then coordinate efforts with other county departments.

5 **C. Coordination with Communication Infrastructure Providers**

6 TPUD understands the importance of proactive planning and coordinating closely with  
7 local governments, agencies, and customers. Several stakeholders engage in  
8 emergency preparedness and response. The key stakeholders include local  
9 governmental agencies as well as location-specific organizations, including critical  
10 facilities, resorts, customers, and business groups.

11 **Table 4: TPUD Emergency Preparedness and Response Stakeholder List**

STAKEHOLDER GROUP	DESCRIPTION
<b>Critical Agencies</b>	<ul style="list-style-type: none"> <li>• <b>Primary Care Hospitals</b></li> <li>• <b>Schools</b></li> <li>• <b>Water Districts</b></li> <li>• <b>Public Safety Dispatch Centers</b></li> <li>• <b>Local Emergency Planning Committees</b></li> <li>• <b>California Department of Transportation</b></li> <li>• <b>CPUC Safety and Enforcement Division</b></li> </ul>

STAKEHOLDER GROUP	DESCRIPTION
Communications	<ul style="list-style-type: none"> <li>• Local radio station/equipment</li> <li>• Telecommunications companies/equipment</li> <li>• Local news stations/equipment</li> </ul>
First Responders	<ul style="list-style-type: none"> <li>• Law enforcement/holding facilities</li> <li>• Fire operations facilities</li> <li>• CAL FIRE stations</li> <li>• USFS (US Forest Service-Pacific Northwest)</li> <li>• Local Volunteer Fire Departments</li> </ul>
Local Government	<ul style="list-style-type: none"> <li>• Towns (Weaverville, Douglas City, Junction City, Lewiston, Hayfork)</li> <li>• Trinity County</li> </ul>
Safety Councils	<ul style="list-style-type: none"> <li>• Trinity County Fire Safe Council</li> </ul>
Customers	<ul style="list-style-type: none"> <li>• Any person, organization, or critical facility receiving electricity from TPUD</li> </ul>

1 **D. Standardized Emergency Management System**

2 TPUD coordinates with its local emergency response agencies as well as other relevant  
 3 local and state agencies as a peer partner during emergencies. In response to all  
 4 emergency events, TPUD collaborates with the local OES and provides an agency  
 5 representative to ensure effective communication and coordination. TPUD's two primary  
 6 coordination points are Trinity County OES and the Trinity County Sheriff's Office. TPUD  
 7 participates in the Trinity County Disaster Council and the Cal OES Mutual Aid Region  
 8 Advisory Committee.

9 **VI. Wildfire Risks and Drivers Associated with Design, Construction, Operation, and**  
 10 **Maintenance**

11 Some of the risks and risk drivers associated with design, construction, operation, and  
 12 maintenance of TPUD's equipment and facilities is infrastructure age. The use of expulsion-  
 13 type fuses as well as mineral oil used in transformers are other examples. TPUD is in the on-  
 14 going process of replacing all expulsion-type fuses with non-expulsion fuses. The demand  
 15 for this equipment is very high, due to the widespread use of many electric utilities with  
 16 operations in high fire-threat areas. The District has replaced approximately 27% of its fuses  
 17 with the CAL FIRE-exempt fuses and will continue the replacement program moving  
 18 forward. In 2024, the District applied for a Community Facilities Grant in the amount of  
 19 \$300,000 to fund the purchase of the remaining expulsion fuses needed to complete this  
 20 work.

1 **A. Particular Risks and Risk Drivers Associated with Topographic and Climatological Risk**  
2 **Factors**

3 TPUD staff evaluated other utilities' fire causes and applied its own field experience to  
4 determine potential risk drivers. Five categories were identified as potential for causing  
5 powerline sparks and ignitions:

- 6 • Red Flag Warning (RFW) Conditions
- 7 • Foreign Contact
- 8 • Equipment/Facility Failure
- 9 • Wire-to-wire Contact/Contamination
- 10 • Other

11 TPUD staff identified the following drivers associated with each category. These are  
12 discussed below but may not be limited to the following.

13 **Red Flag Warning Conditions**

14 The National Weather Service issue RFW and Fire Weather Watches to alert fire  
15 departments of the onset or possible onset of critical weather and dry conditions that  
16 could lead to rapid or dramatic increases in wildfire activity.<sup>4</sup> An RFW is issued for weather  
17 events that may result in extreme fire behavior that will occur within 24 hours. A Fire  
18 Weather Watch is issued when weather conditions could exist in the next 12-72 hours. An  
19 RFW is the highest alert. Vegetation management (VM) and line crews have on-site fire  
20 suppression equipment, including water backpacks, shovels, and fire rakes. Work crews  
21 conduct tail-gate meetings to confirm the location and readiness of the fire suppression  
22 equipment.

23 **Foreign Contact**

24 As is the case for most electric utilities, most overhead powerlines are installed with bare  
25 wire conductor on insulated structures. The benefits of this type of conductor are that it is  
26 much lighter and easier to work with, as well as a much more cost-effective method of  
27 delivering energy compared to insulated/covered wire. The downside to bare wire is its  
28 susceptibility to contact from foreign objects such as wildlife, vegetation, and third-party  
29 equipment. Protection equipment is utilized to isolate faults, but there are time delays  
30 associated with circuit breakers, reclosers and fuses. These time delays are not fast  
31 enough, in many cases, to prevent all sparks prior to tripping. Ejected molten metal,  
32 sparks, or burnt foreign objects can potentially ignite any fuels in the vicinity of the fault.  
33 Vehicles leaving the roadway and contacting a pole is a common source of faults. Such  
34 an impact with poles or guy wires can break poles and/or crossarms, creating enough  
35 stress on the conductors to break them. The results can be ground contact, potentially  
36 emitting sparks.

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<sup>4</sup> <https://www.fire.ca.gov/programs/communications/red-flag-warnings-fire-weather-watches/>

1 **Equipment Failure**

2 There are many reasons equipment failure can occur during its service life. Most  
3 equipment requires regular maintenance for optimal performance. Even though TPUD's  
4 qualified personnel perform regularly scheduled inspection and maintenance on all  
5 system equipment, internal defects that are not visible or predictable can be the cause  
6 of destructive equipment failure, resulting in ejection of sparks and/or molten metal. The  
7 failure of components such as hot line clamps, connectors, and insulators can result in  
8 wire failure and wire-to-ground contact. Transformers and capacitor banks can have  
9 internal shorts, potentially resulting in the ejection materials, which could be a fire source.

10 **Wire-to-Wire Contact/Contamination**

11 High wind events and storms are potential causes of wire-to-wire contact referred to as  
12 contamination. Conductors can sway under these conditions, and if extreme, wire-to-wire  
13 contact can occur. When two or more energized conductors come into contact with  
14 each other, they will generally emit sparks or cause breakers to trip, emitting sparks and  
15 ejecting material. A vehicle impacting a pole or livestock rubbing on guy wires are also  
16 potential causes for contamination. Certain processes of reenergization of conductors  
17 can cause a "galloping" condition that may result in contamination.

18 **Other Potential Risk Factors**

19 Construction projects by non-TPUD crews are another possible cause of ignition. Boom  
20 trucks working near power lines can contact conductors, causing a fault. Digging without  
21 first locating power lines is another hazard, as the District has many miles of underground  
22 distribution lines in its service area. These situations would most likely not be the source of  
23 an uncontrolled wildfire, as this type of event would be observed, and responsive actions  
24 immediately taken.

25 TPUD employs a professionally trained and well-informed workforce. Switching,  
26 construction and maintenance activities are performed daily. Tools and vehicles can  
27 be sources of sparks or ignition as well. For example, driving a vehicle over dry  
28 grass/brush can cause the dry grass/brush to ignite when contacting hot surfaces. For  
29 these reasons, TPUD vehicles are equipped with fire suppression equipment, and District  
30 staff are trained to respond to fires and in the proper use of fire suppression equipment.  
31 Tailgate meetings are held before work to discuss the potential for fire and to confirm  
32 the location and condition of on-board fire suppression equipment.

1 **B. Enterprise-Wide Safety Risks**

2 TPUD utilizes the bowtie method for assessing wildfire risk. The left side of the bowtie  
3 identifies most if not all identified RPU-risk factors that could trigger a wildfire. The right  
4 side identifies the possible impacts of these risks.

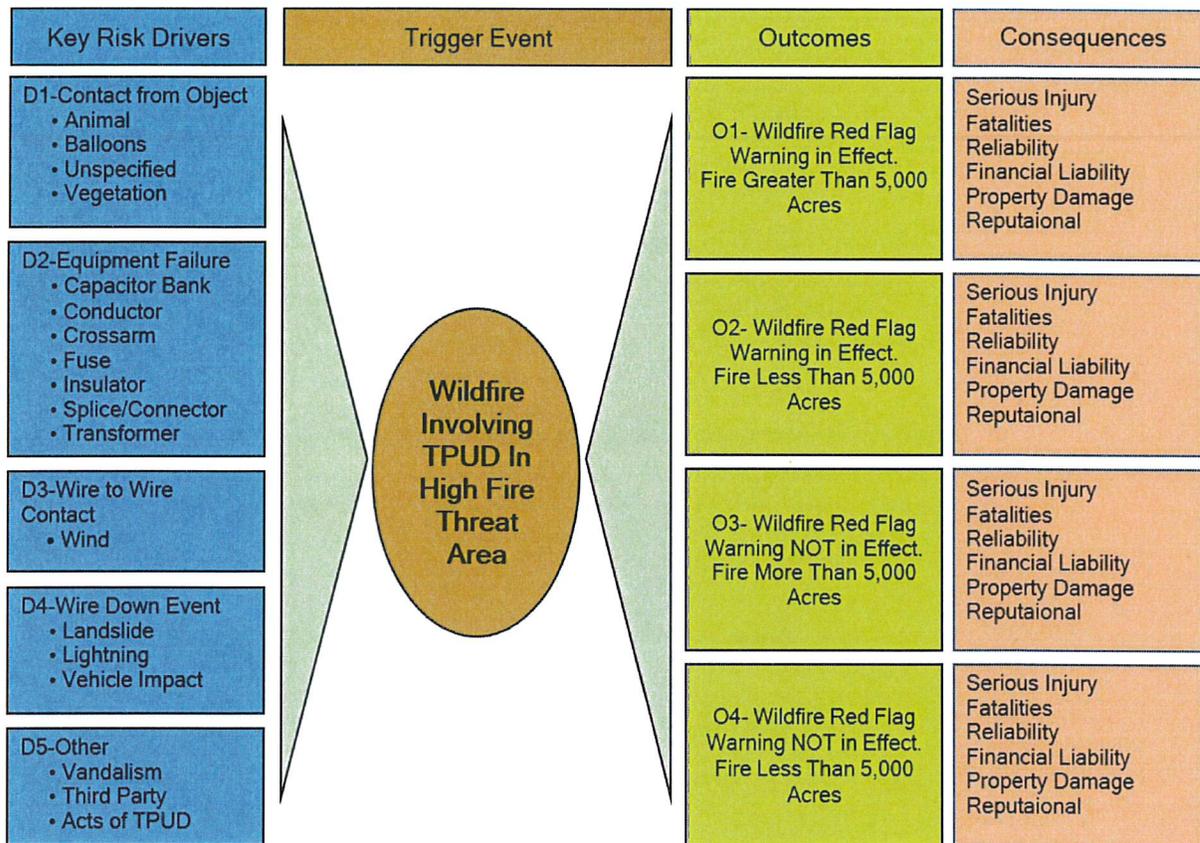


Figure 1: TPUD Risk Factor Bowtie Analysis.

5 **Key Risk Impacts**

6 The aforementioned risks have many possible outcomes. The list below outlines some of  
7 the worst-case scenarios and consequences:

- 8 • Personal injuries or fatalities to the public, employees, and contractors
- 9 • Damage to public and/or private property
- 10 • Damage and loss of TPUD-owned infrastructures and assets
- 11 • Impacts to reliability and operations
- 12 • Damage claims and litigation costs, as well as fines from governing bodies
- 13 • Damage to TPUD's reputation and loss of public confidence
- 14 • Environmental and ecological damage
- 15 • Customer and community impacts
- 16 • Financial liability

1 **C. Changes to CPUC Fire Threat Map**

2 The State of California Public Utilities Commission (CPUC) has designated most of TPUD's  
3 service territory as Tier 2, with a small area designated Tier 3 and a small fraction Tier 1. The  
4 "In town" areas of Hyampom, Hayfork, Lewiston, and Weaverville are located outside of  
5 the high fire-threat districts.

6 TPUD provided input in the development of the CPUC's Fire-Threat Map,<sup>5</sup> which the  
7 Commission adopted on January 19, 2019. This map identifies Statewide High Fire-Threat  
8 Districts (HFTD).

9 The HFTD map has been incorporated into the construction inspection, maintenance,  
10 repair, and clearance practices, where applicable.

11 **High Fire-Threat District (HFTD)<sup>5</sup>**

12 The HFTD identifies areas of elevated and extreme fire risk related to electric utility facilities.  
13 These areas are reflected in a map the CPUC adopted after an extensive public process.  
14 It is a composite of two maps:

15 **Tier 1 High Hazard Zones (HHZs) on the U.S. Forest Service**

16 CAL FIRE joint map of Tree Mortality HHZs ("Tree Mortality HHZ Map"). Tier 1 HHZs are zones  
17 in direct proximity to communities, roads, and utility lines and are a direct threat to public  
18 safety.

19 **Tier 2 and Tier 3 Fire-Threat Areas on the CPUC Fire-Threat Map**

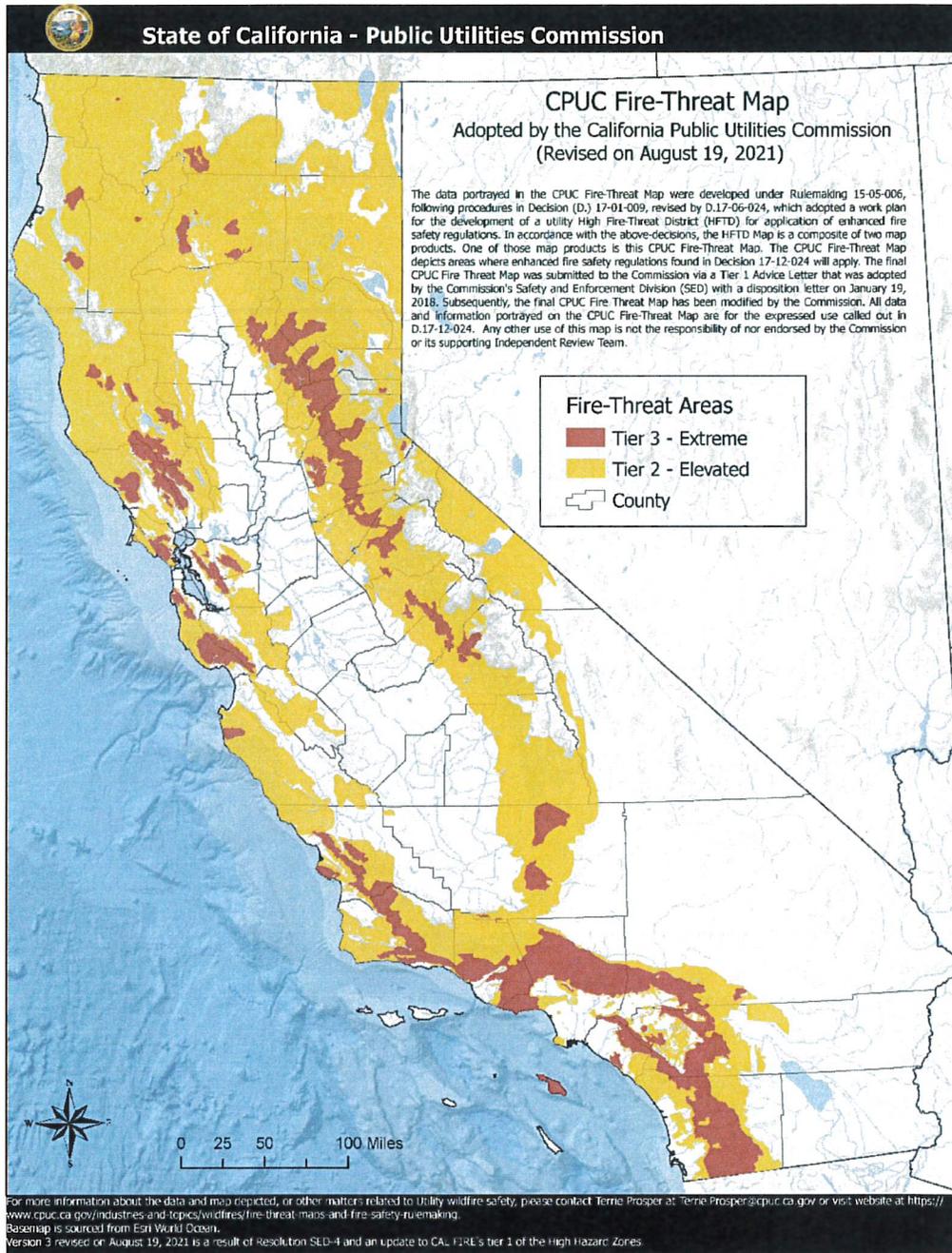
20 Tier 2 fire-threat areas depict areas where there is an elevated risk (including likelihood  
21 and potential impacts on people and property) from utility-associated wildfires. Tier 3 fire-  
22 threat areas depict areas where there is an extreme risk (including likelihood and potential  
23 impacts on people and property) from utility-associated wildfires.

24 Based on TPUD's knowledge of historic wildfire events, the existing environment and  
25 current information, TPUD believes that the HFTD map approximately identifies the level of  
26 wildfire risks within TPUD's service territory. TPUD will continue to evaluate factors that may  
27 indicate the CPUC should modify the HFTDs. The CPUC Fire-Threat Map identifies Tier 3  
28 (extreme fire risk), Tier 2 (elevated fire risk), and areas outside of the HFTD. The majority of  
29 TPUD service area falls within the Tier 2 areas. Portions of the District's assets located in the  
30 more densely populated and developed areas fall outside the HFTD areas. These areas  
31 include portions of Lewiston, Weaverville, Hayfork, Hyampom, and Trinity Center.

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<sup>5</sup> Adopted by CPUC Decision 1-24-024

1



**Figure 2. Depicts the CPUC Fire-Threat Map and TPUD's service area within the map. As shown, TPUD's service area is not comprised of Trinity County in its entirety.**

1 VII. Wildfire Preventative Strategies

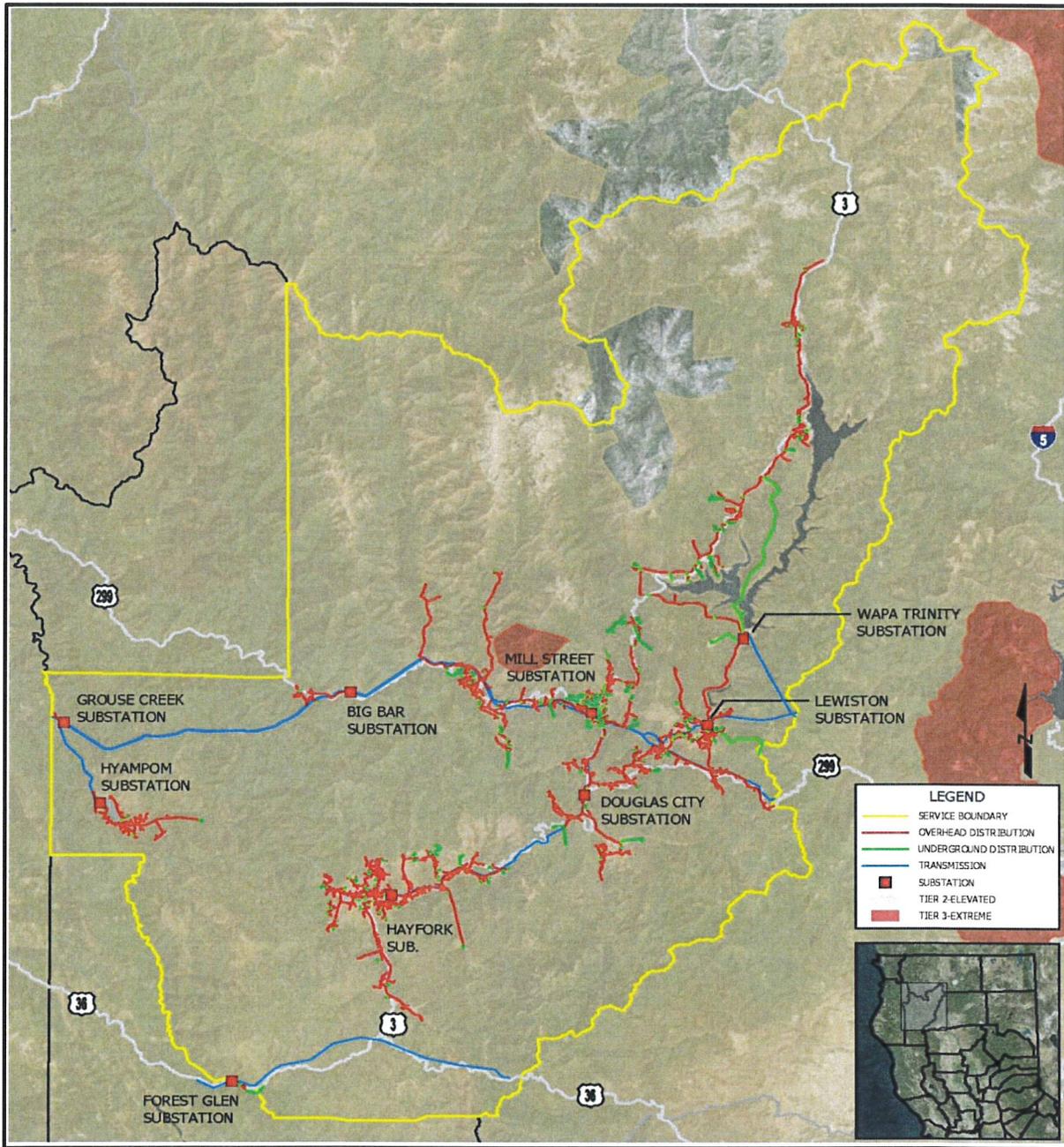


Figure 3. A high-level diagram of TPUD assets in relation to the threat level tiers. As illustrated, most of TPUD's T&D lines and substations are in "Tier 2 – Elevated" fire-threat areas. Portions of the distribution system are located outside of the High Fire-Threat Districts, as well as three substations.

1 **A. High Fire-Threat District**

2 This WMP was built upon a sound foundation, as TPUD has been proactive in implementing  
3 measures to address potential wildfire risks for many years. The Plan outlines existing fire  
4 mitigation efforts and identifies new processes the District will employ moving forward.

5 In general, this WMP describes certain programs that TPUD will attempt to complete on an  
6 accelerated basis to mitigate wildfire risks as quickly as possible. However, many of the  
7 programs are multi-year and programmatic in nature, i.e., there is a startup period with limited  
8 initial implementation followed by full implementation that expands as processes and  
9 methods mature.

10 TPUD also has robust inspection and maintenance programs that include aerial patrols  
11 with a TPUD-owned drone employing infrared (IR) technology, along with high resolution  
12 photography. Regular ground inspections of all facilities, including core testing of the  
13 wood poles, are another part of the preventive maintenance program.

14 The District has already begun the process of replacing standard fuses with non-expulsion  
15 type fuses throughout its service area. Protocols are in place for disabling automatic  
16 reclosers and for deenergizing lines to protect public safety. Some of the conditions that  
17 factor into these protocols may include RFWs, forecasted temperatures above 100  
18 degrees, winds exceeding design standards, and low humidity.

19 TPUD is researching the implementation of radio communications with its reclosers and  
20 other equipment to enable immediate setting adjustments to react to quickly changing  
21 conditions on the ground.

22 Several of TPUD's strategies and programs in use now are not limited to any timeframe and  
23 are instead situational and based on certain real-world events, such as RFWs and other high  
24 fire-risk conditions. For example, TPUD's Public Safety Power Shutoff (PSPS) protocols are only  
25 triggered when conditions pose a significant threat to the public. These conditions are  
26 predominantly weather and vegetative fuel-related and not associated with time periods  
27 (e.g., in 2019, or within 5 years). Similarly, TPUD's emergency preparedness and response plans,  
28 post-incident recovery, restoration, remediation activities, and programs to support customers  
29 impacted by a wildfire are event-driven and are not timeframe-dependent. TPUD's  
30 operational practices are also not time-dependent, and certain practices are triggered by  
31 RFW and other high fire-risk conditions. Additionally, these practices are updated as TPUD gains  
32 the latest information and adopts improved practices.

33 Furthermore, all administrative-related programs such as risk analyses, performance metrics,  
34 and monitoring of this WMP will be performed at regular or annual intervals.

35 TPUD regularly coordinates with local Fire Safe Councils and first response agencies. TPUD  
36 also participates in emergency operations activities in its system areas. TPUD has robust  
37 VM programs with accelerated VM Trimming Cycles.

1           The Outage Communications Plan includes methods to address potential deenergization  
2           events with targeted messaging for affected areas.

3   **B. Weather Monitoring**

4           TPUD relies on weather data from various sources, including the National Weather Service,  
5           CAL FIRE, and PG&E weather station data.

6   **C. Climate Change**

7           The fourth California Climate Change Assessment has concluded that climate change  
8           will make forests more susceptible to extreme wildfires. One study has found that the  
9           frequency of fires over 25,000 acres would increase by nearly 50 percent and that the  
10          average area burned would increase by 77 percent by the end of the century if  
11          greenhouse gas levels continue to rise. Increasing temperatures and rising sea-levels will  
12          have direct impacts on public health and infrastructure. Drought, coastal and inland  
13          flooding, and wildfire will continue to affect people's livelihoods and local economies.

14          In TPUD's service territory climate cycles range from very dry years to above average wet  
15          years and droughts can last for several years in a row. The most recent California drought  
16          lasted from December of 2011 to March of 2017. Although the dry spell ended in 2017,  
17          after many consecutive dry years several species of trees seem to now have root fungus,  
18          adding to the overall tree mortality rate. Additionally, these drought stressed trees are  
19          more susceptible to bark beetle infestations. 2020, 2021, 2022 and 2023 were also  
20          considered drought years in California.

21          For decades, TPUD has designed its electric system with the primary goal of providing safe,  
22          dependable, and affordable power. These designs stem from many decades of  
23          engineering experience and the adoption of emerging technologies. TPUD's design  
24          practices continue to advance with the addition of newer safety and reliability-related  
25          technologies. As part of this advancement, it is important to understand and adapt to the  
26          new normal and the challenges climate change brings. The greater intensity and year-  
27          round frequency of fire danger is driving the need for further evolution, hardening, and  
28          strengthening of the grid-particularly as portrayed in the High Fire-Threat District (HFTD)  
29          Map of TPUD's service territory.

30   **D. Design and Construction Standards**

31          TPUD initiates pilot projects to explore technologies and practices that are new to TPUD.  
32          These projects are intended for TPUD staff to evaluate the effectiveness and benefits of  
33          the technologies or practices. Based on the results of the pilots, TPUD may elect to  
34          integrate the technologies or practices into its various ongoing maintenance programs.

35          TPUD has purchased CAL FIRE-exempt lightning arrestors that are the standard for any  
36          new construction; TPUD is replacing old styles with exempt models as identified.

37          Vibration dampeners are installed where engineering requires them.

1 TPUD installs raptor protection and covered conducting jumpers where problem areas  
2 are identified.

3 TPUD has some legacy secondary voltage-tree attachments that are being phased out  
4 whenever they are identified.

5 **Wildfire Risk Reduction, Reliability, and Asset Protection Project (WRAP)**

6 The District has undertaken an enhanced Right-of-Way clearing project on federally  
7 managed lands within TPUD's Service Territory. The WRAP Project is in the planning phase,  
8 with an Environmental Impact Report expected in January of 2025. The District has  
9 partnered with the Western Area Power Administration on this project, with a goal of  
10 increasing rights of way from 20' to 130' to reduce tree contacts and wildfire risk.

11

12 **Advanced Radio Communications and Automated Vehicle Location (AVL)**

13 Because cellular service is less than optimal in the TPUD service area, the District is looking  
14 at implementing a radio communications system that will assist in automatically tracking  
15 vehicle locations. Traditional cellular GPS tracking does not provide consistent and reliable  
16 information due to the terrain and "cellular dead zones."

17 **E. Vegetation Management**

18 TPUD's Vegetation Manager is responsible for the patrol, work plans, and quality control  
19 (QC) audits of the actual tree work in TPUD's service territory. Circuits are patrolled and  
20 maintained on an ongoing basis, enabling the District to cover all lines on a rotating three-  
21 year cycle.

22 Contractors perform TPUD's vegetation management (VM) work. This VM work is quality  
23 control (QC)-audited by TPUD's Vegetation Manager. Approximately 10% of the  
24 distribution system-related clearing and pruning is field audited. Quality assurance (QA)  
25 efforts are tracked to monitor program effectiveness and overall tree work performance.  
26 TPUD VM staff performs a QC audit of 100% of the sub-transmission system-related work  
27 performed by the contractor. For both T&D QA efforts, all deficiencies are recorded, and  
28 work reissued to the contractor for corrective action. Distribution QC is only on TPUD  
29 contractors and consists of approximately 10% sample of tree work.

30 Contracts are awarded to outside vegetation management contractors to conduct this  
31 work. These processes follow Federal FAC 003-4 and State regulations, including Public  
32 Resources Codes section 4292 and 4293; they also meet or exceed the standards in CPUC  
33 GO 95 Rule 35. TPUD utilizes the 2020 "Power Line Fire Prevention Field Guide" in  
34 establishing its pole clearing practices. Contracts for vegetation management are signed  
35 for one year, with up to three, one-year extensions. TPUD has approximately 12,000 poles  
36 in its service area, making the tree trimming budget the largest contract expense for the  
37 District.

1 In 2024, TPUD was notified by the United States Department of Agriculture, Community  
2 Wildfire Defense Grant funding agency of the award of \$9.5 million to amplify vegetation  
3 management efforts in its Service Territory. Once implemented, hazard tree identification  
4 and abatement on private property will be accelerated over a period of five years, and  
5 shaded fuel breaks will be created along powerline rights of way over a period of three  
6 years.

### 7 **Annual Pole Clearing Program**

8 The pole clearing program is an annual requirement to clear vegetation around poles  
9 that have certain CAL FIRE non-exempt equipment on them. This program follows  
10 California Public Resource Code 4292. The code calls for clearing vegetation within a 10-  
11 foot radius of a pole or tower on which non-exempt equipment is attached, unless such  
12 pole or tower meets certain criteria that make it exempt from the clearance  
13 requirements. TPUD contracts this activity out along with the Vegetation Clearing and  
14 Removal Contract.

### 15 **Vegetation Inspection and Maintenance**

16 When conducting routine maintenance that involves preventative inspection, TPUD  
17 responds to high-risk fuel sources with efforts to remove identified vegetation, as needed.  
18 This maintenance work occurs once every three years per circuit. TPUD also performs  
19 inspections of vegetation concerns when either service calls are made, or utility  
20 employees or vegetation management contractors identify at-risk vegetation while  
21 performing day-to-day operations.

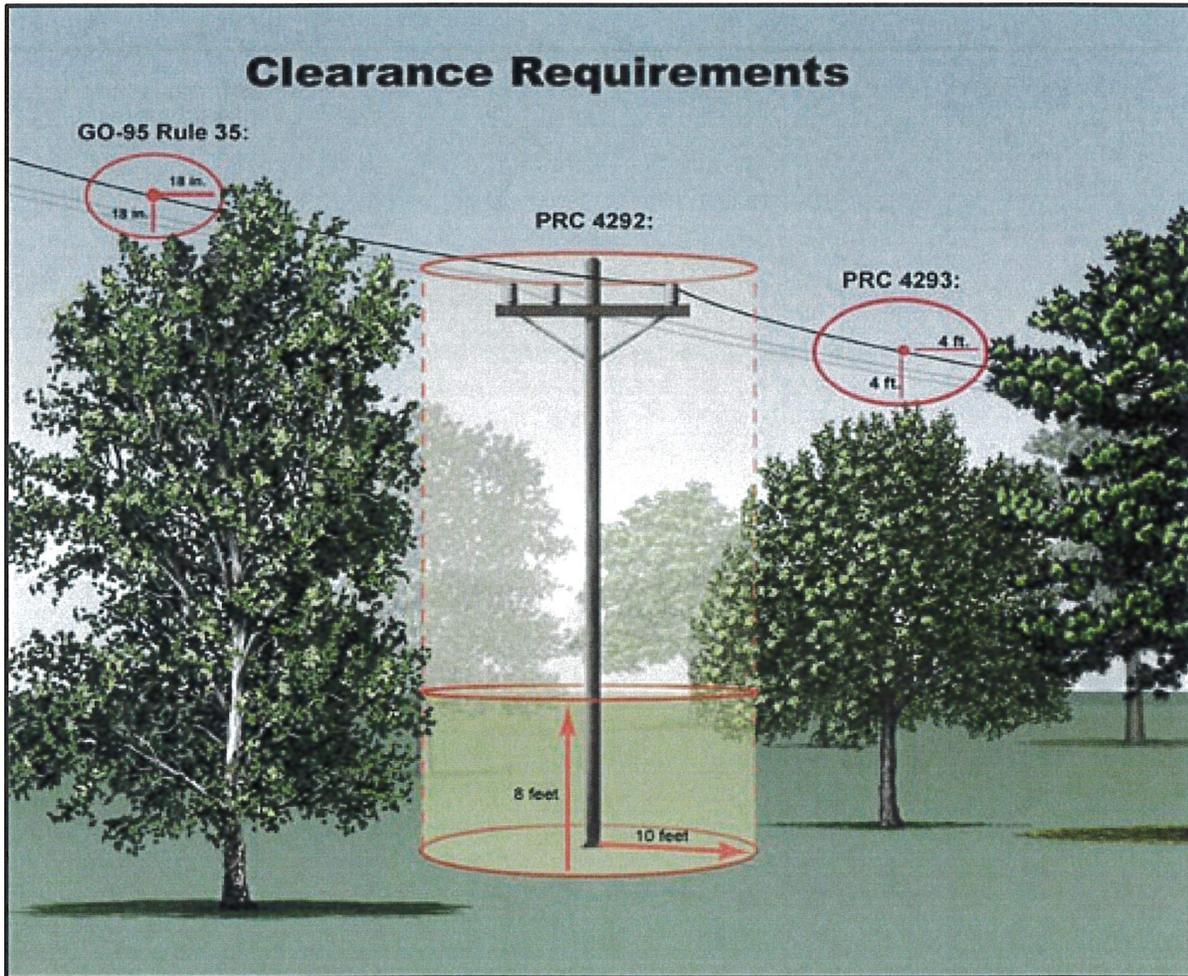
22 Future considerations are being evaluated to enhance inspection procedures. In 2021,  
23 TPUD invested in technology which utilizes satellite imagery to capture and record  
24 vegetation along its rights-of-way and is implementing this technology into its Vegetation  
25 Management efforts. Satellite imagery reveals encroachments, hazard trees and with  
26 future data collections will have the ability to help predict tree mortality.

### 27 **TPUD Tree Trimming and Removal Guidelines**

28 Circuits are patrolled for vegetation work on a three-year cycle and are maintained to  
29 PRC 4292 and PRC 4293 standards.

- 30 • Any tree or portion of a tree that will be within four feet of energized  
31 conductors within three years will be trimmed or removed to achieve  
32 maximum clearance possible while taking into consideration the tree's health,  
33 documented rights, and proper arboricultural practices.
- 34 • Any tree located in the ROW may be removed if it is or in the future will  
35 conflict with conductors.
- 36 • Any tree that is located outside of the ROW and is deemed a hazard tree will  
37 be removed or topped to make it safe for conductors. Location, DBH, and  
38 height of all such trees will be provided to property owners within three days  
39 of inspection. The property owners have 15 days to respond for comment,  
40 otherwise work will proceed as scheduled. Hazard trees are considered any

- 1 tree or portion of tree that is dead, rotten, decayed, or diseased and which  
2 may fall into or onto the overhead lines or trees leaning toward the lines.  
3 • Poles subject to section 4292 of the California Public Resource Code will have  
4 all vegetation cleared to a ten-foot radius of the pole as illustrated in Figure  
5 13.  
6 • Best management practices (BMP) will be used on ROW maintenance.



**Figure 4. Pole Clearance Requirements.**

7 Ground Level Vegetation Clearance and Removal  
8 TPUD maintains firebreaks around bases of certain power poles throughout the OH  
9 distribution system. The projected work product consists of providing a firebreak by  
10 removing all vegetation at ground level around and adjacent to specific poles or  
11 structures as identified by location and pole number. See Figure 6 Poles Requiring Ground  
12 Level Vegetation Clearing

13 Ground level Vegetation Clearance and Removal is performed to provide the required  
14 firebreaks Work begins after plants and grasses have matured to minimize new spring

growth. Work is completed as soon as is practicable by the beginning of the fire season if possible. It is anticipated the work cycle will occur between April 15 and August 15 of each year.

Currently 1059 poles are identified as part of the annual ground-clearance work cycle. Number of poles to be cleared listed by designated area: Total of all areas = 1059.

**Table 5. Poles Requiring Ground Level Vegetation Clearing**

AREA	NUMBER OF POLES
<b>Area 1:</b>	
Hayfork	294
Hyampom	48
Forest Glen	6
Grouse Creek	0
<b>Total: Area 1</b>	<b>348</b>
<b>Area 2:</b>	
Weaverville	258
<b>Total: Area 2</b>	<b>258</b>
<b>Area 3:</b>	
Lewiston	160
Lewiston/Trinity Center	184
Douglas City	95
Big Bar	9
Sub-Transmission	5
<b>Total: Area 3</b>	<b>453</b>
<b>Total for All Areas</b>	<b>1,059</b>

**T&D System Vegetation Management Standards**

TPUD VM crews perform ground-based inspections of trees and conductor clearances and hazard tree identification. Patrols are scheduled to ensure all lines are inspected for vegetation hazards on a three-year timeline. The results of the patrols are targeted areas for vegetation pruning or removal. Annual ground-based field patrols ensure compliance with state and federal regulatory requirements (Public Resource Code 4293) and alignment with standards in CPUC GO 95 Rule 35. During tree work, contractors aim to achieve up to 12 feet of clearance, unless otherwise directed by TPUD VM staff. The contractor also clears vegetation from TPUD's secondary voltage, service drops and pole climbing space on an as needed basis. TPUD's contractors follow American National Standards Institute (ANSI) A300 concepts and utility directional pruning, which supports proper pruning/tree health while achieving and maximizing the pruning cycle.

**F. Inspections**

TPUD performs multiple time-based inspections on its T&D facilities. Inspections play a significant role in wildfire prevention. Recognizing the hazards of equipment that operate high voltage lines, TPUD maintains a formal inspection and maintenance program for T&D facilities. In 2022, TPUD completed a Global Positioning System (GPS) re-survey and Geographic Information System (GIS) import of all utility poles in its system to accurately document infrastructure locations. The system infrastructure map is always available to field and office staff via desktop and mobile devices.

Qualified personnel perform all inspections. System equipment in need of maintenance or repair is categorized according to the severity of the condition. Repairs are done in order of rating. Items rated Priority #1 are reportedly immediately to the appropriate Manager (Electric Superintendent, Supervising Foreman, or Vegetation Manager) and are addressed to prevent failure or service interruption. Items rated Priority #2 are scheduled for maintenance to be performed within 30 days. Priority #3 Items are

1 scheduled for maintenance to be performed within six months or as determined by the  
2 Electric Superintendent. Inspections are imported into the GIS Mapping System monthly.  
3 Work Orders are generated and then fielded by the Supervising Foreman to Line Staff.  
4 Completed Work Orders are returned and mapped by the System Engineer.

5 The following sections outline practices for inspection of TPUD assets.

### 6 **Sub-Transmission Line Inspections**

7 TPUD's Sub-Transmission Lines are grouped into three inspection areas: The Weaverville 60  
8 kV tap, the Hayfork 60 kV tap, and the Hyampom 60kV tap. The overhead sub-  
9 transmission system (60 kV) is visually inspected annually to report any conditions that may  
10 have potential for circuit interruptions.

### 11 **Infrared Inspections**

12 TPUD is using infrared (IR) technology to identify problem areas within Substations. An IR  
13 inspection uses a device that determines the relative temperature of equipment on the  
14 electrical system. Using temperature readings, the IR Inspection can detect equipment  
15 that may fail in service. Abnormal temperatures indicate a possible internal malfunction  
16 or loose connection, which has the potential to lead to equipment failure. Reports are  
17 generated and further investigation and/or repairs are scheduled and prioritized based  
18 on the hazard level.

### 19 **Ground Patrols and Inspections**

20 All TPUD facilities lie within Tier 2 HFTD. TPUD has a robust inspection and testing program.  
21 Intrusive testing of poles follows strict adherence to General Order (GO) 95 requirements  
22 with additional visual pole inspections every two years.

23 TPUD has a detailed system patrol process complying with GO 165 requirements, which  
24 includes bi-annual drone and/or foot patrols for overhead circuits. Inspections include  
25 both equipment and vegetation patrols.

26 Line patrol inspections occur biannually throughout the system and consist of walking,  
27 driving, and using drone technology to access infrastructure. Police officers look for  
28 obvious signs of defects, structural damage, broken hardware, sagging lines, and  
29 vegetation clearance issues. Any damage detected is reported and addressed based  
30 on the severity of the defect.

31 TPUD is currently in the process of replacing non-expulsion type fuses and anticipates  
32 completing replacement work in approximately five years.

### 33 **Underground Facilities**

34 TPUD has an under ground facilities inspection program in place consisting of a visual  
35 inspection of surface and sub-surface transformers and junction boxes. Inspectors open  
36 lids or covers to facilities and visually examine elbows and connections. A photograph is  
37 also taken and digitally stored in a database. Infrared cameras are also utilized on suspect  
38 facilities.

1 **Aerial Patrols (Drone)**

2 TPUD currently has an in-depth drone program used for inspections. IR and LiDAR are also  
3 part of TPUD's arsenal.

4 TPUD utilizes drone technology to perform patrol inspections of both equipment and  
5 vegetation. TPUD employs seven FAA-licensed drone pilots. Drones are utilized for quickly  
6 identifying downed lines and provide situational awareness during emergency situations.  
7 Drone technology provides more timely responses than the traditional methods of hiking,  
8 driving, or use of all-terrain vehicles to access remote areas in rugged terrain. Drones are  
9 equipped with high-resolution cameras, which allow for detailed inspections of cross  
10 arms, hardware, and equipment not visible from the ground.

11 **Wood Pole Intrusive Inspections**

12 Wood poles that are either (a) more than 15 years in age, or (b) have previously passed  
13 an intrusive inspection more than 20 years ago are identified for intrusive inspection in the  
14 District's Mapping and Inspection Program. Intrusive inspections require sample material  
15 to be taken for analysis to identify problems such as rot and decay.

16 **Sub-Transmission and Distribution Line Inspections**

17 Inspection of the overhead 60 kV sub-transmission, and overhead and underground  
18 electric distribution system with primary operating voltages of 12.4, 12 kV, 7.2 kV and  
19 secondary voltages of 480/277, 208/120 and 240/120 are performed on a cycle to ensure  
20 that all equipment is inspected on a regular schedule. Inspections and maintenance are  
21 performed employing measures that are intended to protect the worker, general public,  
22 and system reliability. The inspection cycles are designed to ensure safety and reliability  
23 and are based on standards found in CPUC GO 95, GO 128, and GO 165.

24 Qualified personnel perform all inspections. System equipment that is found in need of  
25 maintenance or repair is categorized depending on the severity of the condition. Repairs  
26 are done in order of rating. Items rated Priority #1 receive immediate attention to prevent  
27 failure or service interruption. Items rated Priority #2 are scheduled for maintenance to be  
28 performed within 30 days. A record of the inspections and maintenance performed will  
29 be submitted to the Electric Superintendent and maintained by the appropriate office  
30 personnel.

- 31
- 32 • Poles supporting electrical facilities that have been in service for 15 years and  
longer will be given an intrusive inspection (Drill test below ground level).
  - 33 • Overhead line apparatus will have a detailed inspection every five years.
  - 34 • Underground line apparatus will have a detailed inspection every three years.

35 **Inspections**

36 Detailed inspections occur every five years and consist of accessing infrastructure by  
37 walking or driving. Binoculars may be used to detect and evaluate damage to above-  
38 ground components. Poles may be given a "sound" test to detect decaying or rotten  
39 wood. Inspectors look for the following:

- 1 • Mechanical damage
- 2 • Loose hardware
- 3 • Guy wire and anchor condition
- 4 • Disconnects and fuse holder condition
- 5 • Insulators and conductor condition
- 6 • Condition of transformers and reclosers
- 7 • Ground conductors and moldings
- 8 • Pole ID signs and other minor hardware
- 9 • Raptor nests
- 10 • Vegetation clearance issues

11 **Line Patrols**

12 Inspection progress is tracked using computer tablets loaded with GIS-enabled  
13 visualization tools and software. The use of these tools ensures that all assets within TPUD's  
14 service territory are patrolled. Inspectors look for obvious signs of defects, structural  
15 damages, broken hardware, sagging lines, and vegetation clearance issues.. Any  
16 anomalies found are addressed based on severity of the defect. Line patrols are  
17 performed bi-annually on all distribution lines and equipment.

18 **Wood Pole Intrusive Inspections**

19 Distribution wood pole intrusive inspections follow the same criteria as Sub-Transmission  
20 wood poles.

21 **Instruction to Inspectors**

22 The Preventative Maintenance Plan is designed to provide safe reliable service. The plan  
23 is based on sound industry principles and practices. Maintenance work shall be prioritized  
24 considering the most urgent need due to compromised safety and reliability.

25 The inspector will document the condition of the overhead and underground systems,  
26 recording defects, deterioration, violations, safety concerns, or any other conditions that  
27 require attention on the inspection tags. The inspection's focus shall be on any hazards  
28 that could affect system integrity, line-worker safety, and the public.

29 **Standards for Record-Keeping and Reporting**

30 General Instructions: Current inspections of the electrical systems will be documented in  
31 the GIS mapping system. If the condition of the system being inspected is satisfactory, no  
32 further documentation is needed. Conditions other than satisfactory are imported and a  
33 list of poles with deficiencies is generated for the System Engineer, who will generate a  
34 work order.

35 **Satisfactory Conditions**

36 Facilities that are found to be within standards and do not require maintenance will be  
37 documented in the GIS Mapping System with the associated feature. Records are  
38 updated on a continual basis.

## 1 **Substation Inspections**

2 The Preventive Maintenance plan provides for regular inspections of substations.  
3 Qualified personnel will use prudent care while performing inspections, following all  
4 required safety rules to protect themselves, other workers, the public, and system  
5 reliability.

6 TPUD performs various inspections on substations to ensure safety and reliability. TPUD  
7 inspections meet or exceed standards in CPUC GO 174. A "Detailed" inspection shall be  
8 defined as one where individual pieces of equipment and structures are carefully  
9 examined visually and through use of routine diagnostic tests, as appropriate. If practical  
10 and useful information can be gathered, equipment is opened and the condition of each  
11 piece of equipment is rated and recorded.

- 12 • Substations shall be visually inspected once a month and a detailed  
13 inspection performed biannually.
- 14 • All overhead line equipment shall be visually inspected once a month and a  
15 detailed inspection performed every six months.

## 16 **Visual Inspections**

17 Substation inspectors visit each TPUD substation to visually inspect the facility and all  
18 equipment within. A visual inspection is a simple quick look at the system to assure that  
19 there are no obvious structural problems, hazards, or tree trimming requirements.

20 The inspectors look for the following:

- 21 • Broken or loose hardware
- 22 • Vandalism or damage to any equipment
- 23 • Oil or gas leaks
- 24 • Perimeter fence security
- 25 • Condition of the buss insulators and other hardware
- 26 • Condition of the control house
- 27 • Conditions of the poles/structures and lines exiting the substation
- 28 • Condition of the disconnects and fuses for signs of damage and connectivity

29 Visual inspections are performed 12 times per year.

## 30 **Detailed inspections**

31 A detailed inspection of substation assets includes all items listed in the Visual Inspection  
32 section, as well as mechanical damage to any component, including the following:

- 33 • Condition of insulators and conductors
- 34 • Condition of risers and conduits
- 35 • Condition of transformers, reclosers, and cap banks

36 Similar inspections are performed on pad-mounted equipment and equipment installed  
37 below grade in vaults or building basements. Underground system vaults, transformers,

1 and switch cabinets will be opened and closely inspected. All substations receive infrared  
2 inspections annually. Detailed Inspections are performed biannually.

3 **G. Workforce Training**

4 The District has developed rules and complementary training programs for its workforce  
5 to reduce the likelihood of an ignition. All field staff will be involved in the following:

- 6 • Trained on WMP content
- 7 • Trained in proper use and storage of fire extinguishers
- 8 • Required, during pre-job briefings, to discuss the potential(s) for ignition and  
9 environmental conditions (current and forecasted weather that coincides  
10 with the duration of work for the day)
- 11 • Required to identify the closest fire extinguisher and other fire abatement tools
- 12 • Required to report all ignition events to management for follow-up
- 13 • Encouraged to identify deficiencies in the WMP and bring such information to  
14 management

15 **H. Recloser Policy**

16 There are 43 feeder bays and reclosers on various distribution lines in TPUD's system. During  
17 Extreme Weather Events or the start of the fire season, or as low fuel moisture conditions  
18 dictate, the District may disable automatic reclosing functions at District Substations and  
19 field reclosers. In some cases, the reclosers are completely bypassed if automatic  
20 reclosing cannot be disabled. To disable, District personnel will physically go to each  
21 device and place the unit on the alternate setting, blocking the reclosing function. After  
22 the first substantial precipitation in the fall, the devices are reset to the normal operating  
23 mode.

24 **I. Deenergization**

25 While initiation of a public safety power shut-off (PSPS) is regarded as a last resort, there  
26 may be situations where it may be the safest approach if the risk of a wildfire starting and  
27 spreading is severe. In the event of a PG&E-initiated PSPS for its transmission lines, the Big  
28 Flat, Forest Glen, Grouse Creek, and Hyampom substations could be affected. Customers  
29 in these areas are encouraged to enroll in PG&E's zip code notification system for a direct  
30 notification from PG&E regarding PSPS events. TPUD will also use its Outage Management  
31 System to notify affected customers when PG&E has made notification.

32 TPUD proactively communicates to customers and key stakeholders through multiple  
33 channels about preparing for potential curtailments and the power restoration process.  
34 TPUD recognizes that many entities and individuals are particularly vulnerable during  
35 extended power outages and makes every effort to provide up-to-date information to  
36 these populations prior to, during, and after an event.

37 This initiative-taking communication is utilized for the following:

- 1                   • A wildfire threat to localized circuits within the TPUD service territory that results
- 2                   in localized deenergization
- 3                   • A wildfire threat to TPUD’s sub-transmission system that results in a
- 4                   deenergization event causing a capacity/energy shortage (rotating outages)
- 5                   • A deenergization by PG&E of its transmission circuits

6                   TPUD's Weaverville Office provides ongoing and available resources for communication  
7                   with the overall customer base. TPUD's General Manager (or his or her designee) will  
8                   provide ongoing mass media communication via traditional news media channels to  
9                   provide customers and the community with information about an emergency or potential  
10                  emergency.

11                 Trinity County OES utilizes the CodeRED App and the IPAWS systems to notify citizens of  
12                 emergency information. The information can be targeted based on geography. TPUD's  
13                 General Manager (or his or her designee) will reach out to the elected officials and  
14                 executive staff of local governments, TPUD's state delegation, federal representatives,  
15                 and appropriate agency staff to provide initial contact and ongoing communications by  
16                 email and phone with messages for their constituents.

17                 Customers can visit the [Trinitytud.com](http://Trinitytud.com) website for information, including the following:

- 18                   • Information on generator safety
- 19                   • Links to the National Weather Service
- 20                   • Links to additional resources
- 21                   • Fire safety and preparedness
- 22                   • CodeRED emergency alert system
- 23                   • Trinity County website
- 24                   • Caltrans
- 25                   • A live outage map

26                 In the time leading up to potential or imminent safety shutoffs, TPUD does its best to  
27                 establish or maintain contact with customers it believes may be impacted (via the various  
28                 channels mentioned above) and keep the media, local agencies, and the public aware  
29                 of the number of customers affected and TPUD's activities and restoration efforts.

30                 The General Manager (or designee) is responsible for contacting key stakeholders,  
31                 federal, state, and local elected officials, County executive staff, critical customers, and  
32                 first responders via a variety of channels. Critical customers include water,  
33                 telecommunications utilities, and medical facilities potentially affected by a shutoff.

34                 The following customer categories are considered essential and/or critical service  
35                 providers:

- 36                   • Jurisdictions and functional agencies providing essential fire, police, and
- 37                   prison services
- 38                   • Hospitals and skilled nursing facilities

- 1 • Communication utilities, as they relate to public health, welfare, and  
2 security, including telephone utilities
- 3 • Radio and television broadcasting stations used for broadcasting emergency  
4 messages, instruction, and other public information related to the electric  
5 curtailment emergency
- 6 • Water and sewage treatment utilities identified as necessary for services such  
7 as firefighting

**8VIII. Community Outreach and Public Awareness**

9 TPUD has a comprehensive plan for communicating with its customers during  
10 emergencies, especially during outages. TPUD utilizes the services of a call center  
11 specifically geared for utilities during non-business hours and provides extended local  
12 office hours to respond to customer phone calls during lengthy and/or widespread  
13 outages. A live outage map is available on TPUD's website. For scheduled maintenance  
14 outages, TPUD provides as much notice as possible to customers, utilizing an Outage  
15 Management System to contact account holders via phone, text, and/or e-mail.

16 Examples of TPUD's communication and engagement with elected officials, government  
17 agencies, and commercial customers include the following:

- 18 • Regular in-person briefings with federal, state, and local elected officials and  
19 key staff on wildfire risk mitigation and other utility-related issues with  
20 comprehensive "leave-behind" materials
- 21 • Meetings with regional and local government staff and elected officials  
22 focused on individual districts, communities, and neighborhoods and  
23 mitigation opportunities
- 24 • Regular in-person and/or digital communication with critical facilities and key  
25 customers
- 26 • Interagency projects, collaborative staff training efforts, and regular  
27 communication with first responders and essential service providers
- 28 • Ongoing communication, collaboration, and support for local Fire Safe  
29 Councils and other fire prevention agencies and nonprofits

30 The Trinity County Office of Emergency Services, in conjunction with the Trinity County  
31 Sheriff's Office, strongly encourages all Trinity County residents to sign up for a CodeRED  
32 account and to load CodeRED phone numbers into their phones to receive Trinity County  
33 Emergency Notifications. The Trinity County Sheriff's Office conducts County-Wide testing  
34 of the CodeRED and Integrated Public Alert Warning System (IPAWS) to confirm customers  
35 that have opted in to CodeRED receive emergency notifications. IPAWS notifications will  
36 be sent to alert all cell phones in the County with cell service in the event of a catastrophic  
37 wildfire. While this system can quickly alert a substantial number of residents, poor cell  
38 phone coverage in many areas will prevent complete notification with this system. A link  
39 to the County's CodeRED sign-up can be found on TPUD's website.

1 **IX. Restoration of Service**

2 **A. Service Restoration Process**

3 TPUD work crews will take the following steps prior to restoring electrical service after a  
4 deenergization event. These measures are intended to protect the worker, public, and  
5 system reliability.

- 6 • **Patrol:** If the deenergization was a PSPS, lines are patrolled to ensure no  
7 hazards have affected the system during the outage. If an outage is due to  
8 wildfire, as soon as it is deemed safe by fire officials, lines and equipment are  
9 inspected for obvious damage or foreign objects. Many of the lines are in  
10 remote and rugged terrain with limited access, making this process potentially  
11 lengthy. VM crews are called on to assist in clearing downed trees and limbs  
12 as needed.
- 13 • **Repair:** After the initial assessment, TPUD supervisors, managers, and engineers  
14 meet to plan the needed work. Re-building will commence as soon as  
15 affected areas become safe. Repair plans prioritize circuits that serve the most  
16 critical infrastructure needs. While the goal is to reenergize all areas as soon as  
17 possible, emergency services, medical facilities, and utilities are given first  
18 consideration when resources are limited.
- 19 • **Test:** After repairs are completed and the equipment is safe to operate, line  
20 segments are energized and tested.
- 21 • **Restore:** After successful line testing, power is restored to homes and  
22 businesses as quickly as possible. Customers, local news, and other agencies  
23 are then notified of the restoration of electric service. Periodic customer and  
24 media updates of restoration status prior to full restoration will be made. After  
25 the initial power restoration, further demolition and rebuilding will likely take  
26 place.

27 **X. Plan Evaluation**

28 **A. Metrics and Assumptions for Measuring Plan Performance**

29 The information below explains plan-performance evaluation monitoring efforts.

30 **B. Monitoring and Auditing the Plan**

31 The WMP will be included as a discussion item on the agenda of regularly scheduled  
32 management meetings. TPUD will monitor efforts of the WMP quarterly and report on its  
33 effectiveness to the Board of Directors on an annual basis. Quarterly reports of the Plan's  
34 current progress and risk reduction impact will be developed and circulated to  
35 appropriate utility staff to engender collaborative discussion to update approved  
36 strategies. The General Manager (or his or her designee) will update leadership with  
37 recommendations or proposed action in enhancing the Plan's objectives over time.

38 The WMP annual review will align with TPUD's existing business planning process. This  
39 review will include an assessment of the WMP programs and performance.

1 TPUD's business planning process includes budgeting and strategic planning for a three-  
2 to-five-year planning horizon.

3 **Table 6. Programmatic Metrics**

PROGRAM	TARGET	METRIC DESCRIPTION	2020	2021	2022	2023
T&D overhead line, wood pole and vegetation Patrol inspections	95-100%	Perform all annual distribution line patrols within the compliance period set in GO 95/165. See Chapter 6 for a detailed description of the program.	5,517 patrol inspections  Goal of 6,131 annually  (89.9%)	2,203 patrol inspections  Goal of 6,131 annually  (35.9%)	2,714 patrol inspections  Goal of 6,131 annually  (44.3%)	3,888 patrol inspections  Goal of 6,131 annually  (63.4%)
T&D overhead line, wood pole and vegetation Detail inspections	95-100%	Perform all detailed line inspections within the compliance period set in General Order (GO) 95/165 by the end of the year. The inspections must be completed within the specified time intervals set for each inspection type. Detailed Line Inspections on equipment are performed once every 5 years. (Chapter 6)	3,510 detail inspections, Goal of 2452 annually (143%)	896 detail inspections, Goal of 2452 annually (36.5%)	2,254 detail inspections, Goal of 2452 annually (91.9%)	2,662 detail inspections. Goal of 2452 annually (109%)
T&D Wood Pole Intrusive Inspections	95-100%	Perform all wood pole intrusive tests scheduled for the year. TPUD's goal is to perform wood pole tests within 15 years of installation and 20 years thereafter. (Chapter 6)	3,510/8,046 (43.6%)	896/4,536 (19.7%)	2254/3718 (61.%)	2689/2441 (110%)

PROGRAM	TARGET	METRIC DESCRIPTION	2020	2021	2022	2023
Distribution Vegetation Pruning/Clearing	95-100%	Complete scheduled respective tree work to ensure compliance with PRC 4293 to prevent ignition and propagation of fire caused by TPUD electric overhead assets.	All open vegetation work orders were competed by end of calendar year	All open vegetation work orders were competed by end of calendar year	All open vegetation work orders were competed by end of calendar year	All open vegetation work orders were completed by end of calendar year
Annual Pole Clearing Program	95-100%	Complete all vegetation clearing activities) in fire season of each year. (Chapter 6)	All poles identified requiring vegetation clearing were complete	All poles identified requiring vegetation clearing were complete	All poles identified requiring vegetation clearing were complete	1128/1128 (100%)
Infrared Inspections of Substation Electrical Equipment	95-100%	IR Inspection to detect abnormal temperature readings.	All substations were inspected with infrared			
Legacy Tree Attachments Replaced	100%	Replace secondary attachments on trees with poles				10 Tree Attachments were identified and 10 were replaced
Fault Tamer Installations	25%	Replace fuses with non-expulsion type				351/1251 installed (28%)
GO128 Underground Inspections	95-100%	Perform all detailed line inspections within the compliance period set in General Order (GO) 128 by the end of the year. The inspections must be completed within the specified time intervals set for each inspection type. Underground Inspections on equipment are performed once every 5 years. (Chapter 6)				44/1004 (4%)

1 **C. Identifying and Correcting Deficiencies in the WMP**

2 The General Manager (or his or her designee) will be responsible for ensuring that this WMP  
3 meets all the State of California guidelines to mitigate the risk of its assets becoming the  
4 source or contributing factor of a wildfire. Staff responsible for assigned mitigation areas  
5 have the role of vetting current procedures and recommending changes or  
6 enhancements to build upon the strategies in the WMP. Either due to unforeseen  
7 circumstances, regulatory changes, emerging technologies or other rationales,  
8 deficiencies within the WMP will be sought out and reported to the Board of Directors in  
9 the form of an updated WMP on an annual basis. The General Manager (or his or her  
10 designee) will be responsible for spearheading discussions on addressing deficiencies and  
11 collaborating on solutions when updating the WMP for its annual filing. At any point in time  
12 when deficiencies are identified, the Supervisors or their delegates are responsible for  
13 correcting the deficiencies.

14 TPUD staff and qualified stakeholders are encouraged to bring any potential deficiencies  
15 to the attention of the General Manager (or his or her designee). The General Manager  
16 (or his or her designee), along with the appropriate staff, will evaluate each reported  
17 deficiency, and if determined to be valid, shall record the deficiency for further action.

18 **D. Monitoring the Effectiveness of Inspections**

19 TPUD's compliance with Commission regulations ensures that facilities are inspected and  
20 repaired in accordance with GO 165 program standards. Any issues found impacting  
21 safety and reliability are addressed as outlined in that program. In addition to this  
22 maintenance program, TPUD is constantly evaluating its facilities while performing other  
23 activities such as outage patrols, new business planning, replacements, and related field  
24 work.

25 Monitoring the effectiveness of inspection practices will occur through ongoing tracking  
26 and annual review of findings resulting from internal processes. The Electric  
27 Superintendent or his or her designee supervises the Vegetation Manager and will review  
28 concerns found during routine field work and equipment and line inspections. TPUD will  
29 use this information as a method to assess the effectiveness of inspection procedures. The  
30 review process will take place annually where inspection records will be reviewed,  
31 deficiencies identified, and corrective actions determined. An internal report will be  
32 provided to the utility's leadership in deliberation of future strategies.

33 Related strategies that mitigate wildfire risk will then be identified and proposed within the  
34 next Plan iteration. Aggregating this data will guide future decision-making on the  
35 direction of wildfire mitigation strategy with the intention that incidents will become less  
36 frequent or hazardous system-wide.

37 TPUD has quality control processes embedded in its existing customary practices.  
38 However, for certain programs, there is a formal quality control process. The following  
39 depicts a few of these programs.

1 **Written Processes and Procedures**

2 TPUD documents its operational procedures and processes to maintain consistent and  
3 thorough implementation at all levels. Processes are reviewed and updated as needed  
4 to maintain the most efficient, effective, beneficial, and safety-driven methods and  
5 protocols.

6 **Distribution System Inspections**

7 The Electrical Superintendent (ES) manages T&D line and substation assets and develops  
8 the comprehensive inspection and maintenance programs. These programs are driven  
9 by the need to ensure the safe operation of T&D line and substation facilities.

10 Key imperatives are as follows:

- 11
- 12 • Reduce the risk of power-related wildfire
  - 13 • Meet federal and state regulatory requirements
  - 14 • Achieve reliability performance within mandated limits and to optimize capital  
and O&M investments

15 In addition, the ES or designated managers regularly monitor inspection and corrective  
16 maintenance records, as well as diagnostic test results to adjust maintenance plans and  
17 develop new programs. The best industry practices are used in the development of the  
18 maintenance programs.

19 TPUD's Grid Assets group is responsible for performing the inspections and corrective  
20 maintenance. When deficiencies are found, the System Engineer creates work orders. The  
21 priority for corrective maintenance is to remove safety hazards immediately and repair  
22 minor deficiencies according to the type of defect, severity, and HFTD tiers. Work orders  
23 are monitored throughout the year to ensure timely completion via regular internal  
24 reports.

25 **Vegetation Management (VM)**

26 Contractors perform TPUD's vegetation management work. This VM work is QC audited  
27 by TPUD's Vegetation Manager. Approximately 20% of the distribution system related  
28 clearing and pruning is field audited. QA efforts are tracked to monitor program  
29 effectiveness and overall tree work performance. TPUD VM staff perform a QC audit of  
30 50% of the sub-transmission system related work performed by the contractor. For both  
31 T&D QA efforts, all deficiencies are recorded, and work reissued to the contractor for  
32 corrective action. Distribution QC is only on TPUD contractors and consists of  
33 approximately 20% sample of tree work.

34 **XI. Independent Auditor**

35 PUC Section 8387(c) requires TPUD to contract with a qualified independent evaluator  
36 with experience in assessing the safe operation of electrical infrastructure to review and  
37 assess the comprehensiveness of this WMP. TPUD will issue a public request for  
38 qualification, consistent with TPUD's current procurement practice, to select an

1 independent evaluator. The independent evaluator will provide a report that will be  
2 posted to TPUD's website and made available for review at the TPUD office. The  
3 Independent Assessment and WMP will be available for public review and comment prior  
4 to plan adoption at a properly noticed TPUD Board of Directors meeting.

5 TPUD will seek a minimum of three proposal bids from highly recommended organizations  
6 to perform an independent evaluation of the TPUD Wildfire Mitigation Plan. Based on the  
7 proposal bids received, TPUD will contract with the organization that best meets the needs  
8 of the District.

9  
10 **1. Public Hearing – July 13, 2023**

11 President Rourke opened the Public Hearing to receive input on the 2023 Trinity Public Utilities  
12 District Wildfire Mitigation Plan Update at 2:02 p.m.

13  
14 Skylar Fisher and Bethany Lewellen with the Trinity County Resource Conservation District thanked  
15 the Board for conducting the Public Hearing and providing the opportunity to provide the following  
16 suggestions:

- 17
- 18 • Page 16 - Add Volunteer Fire Departments as Emergency Responders.
- 19 • Page 16 - Correct Fire Safety Council to Fire Safe Council.
- 20
- 21 • Page 21 – Address footnotes on map to make more legible in a printed version.
- 22
- 23 • Page 22 – Map of CPUC High Fire Threat Areas – improve legend in map to make more  
24 readable in a printed version.
- 25
- 26 • Page 23 – Last paragraph of page, strike the word “other” before “first response agencies.”
- 27
- 28 • Page 37 – Include strategies the District is using to meet targets that are not being met.
- 29
- 30 • Page 25 – Provide a timeline of implementation of topics being researched
- 31
- 32 • Identify areas that inspections or the public have identified as particularly hazardous, other  
33 agencies, such as the Trinity County Resource Conservation District or the Watershed Center  
34 may be able to perform fuel reduction work.
- 35

36 Jeff Morris with Trinity County Office of Education provided the following suggestions:

- 37
- 38 • Perhaps assessed risk could be in terms of tree failure or falling. Mr. Hauser advised that  
39 access drives risk.
- 40
- 41 • Requested that Trinity County Office of Education be included in Communications in terms of  
42 emergency events in order to facilitate communication with School Districts affected by power  
43 outages. Mr. Morris also inquired if the District has a social media presence.
- 44
- 45 • Suggested that perhaps a Trinity County Phone Tree would be a strategy for communicating  
46 with families.

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10

Joseph Bowers provided the following suggestions:

- Page 26 – Suggested communicating with private property owners prior to removal of hazard trees.

President Rourke closed the Public Hearing at 2:31 p.m.