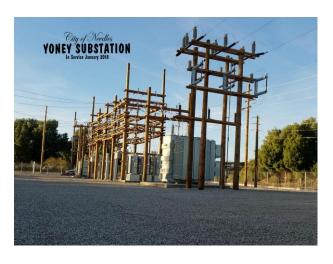
NEEDLES PUBLIC UTILITY AUTHORITY WILDFIRE MITIGATION PLAN





VERSION 6.0 JUNE 2024

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. OVERVIEW

A. POLICY STATEMENT

The Needles Public Utility Authority (NPUA) overarching goal is to provide safe, reliable, and economic electric service to its local community. In order to meet this goal, NPUA constructs, maintains, and operates its electrical lines and equipment in a manner that minimizes the risk of catastrophic wildfire posed by its electrical lines and equipment.

B. UTILITY OVERVIEW AND CONTEXT SETTING TABLE

The City, through the Needles Public Utility Authority (a Joint Powers Authority) owns and operates the electric utility. The electric system expands from the Nevada state line, south of Laughlin, Nevada, to the vicinity of Topock, Arizona.

Context Setting Table
Needles Public Utility Authority

Service Territory Size [110] square miles

Owned Assets X Transmission X Distribution ☐ Generation

Number of Customers Served [3,000] customer accounts

Population Within Service Territory [5,200] people

Customer Class Makeup:

Number of Accounts

[55]% Residential; [5]% Government; [0]% Agricultural; [10]% Small/Medium Business; [30]% Commercial/Industrial

Share of Total Load (MWh)

[30]% Residential; [5]% Government; [0]% Agricultural; [20]% Small/Medium Business; [45]% Commercial/Industrial

Percent of Service Territory in CPUC High Fire Threat Districts (based on total area):

Tier 2: [0]% Tier 3: [0]%

See section IV. CPUC Fire Threat Map for the NPUA

Miles of Owned Lines Underground and/or Overhead

Overhead Dist.: [65] miles Overhead Trans.: [34] miles Underground Dist.: [12] miles Underground Trans.: [0] miles

Percent of Owned Lines in CPUC High Fire Threat Districts

Overhead Distribution Lines as % of Total Distribution System (Inside and Outside Service Territory)

Tier 2: [0]% Tier 3: [0]%

Overhead Transmission Lines as % of Total Transmission System (Inside and Outside Service Territory)

Tier 2: [0]% Tier 3: [0]%

Table 2: Cross References to Statutory Requirements

Requirement	Statutory Language	Location in WMP
Persons	PUC § 8387(b)(2)(A): An accounting of the responsibilities of	Section III
Responsible	persons responsible for executing the plan.	Page 4
Objectives of	PUC § 8387(b)(2)(B): The objectives of the wildfire mitigation	Section II
the Plan	plan.	Page: 3
Preventive Strategies	PUC § 8387(b)(2)(C): A description of the preventive 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.	Section VII.A Page 4
Evaluation Metrics	PUC § 8387(b)(2)(D): 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.	Section VII.B Page 5
Impact of Metrics	PUC § 8387(b)(2)(E): A discussion of how the application of previously identified metrics to previous wildfire mitigation plan performances has informed the wildfire mitigation plan.	Section IV.J Page 2
Deenergization Protocols	PUC § 8387(b)(2)(F): 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.	Section IV.J Page 2
Customer Notification Procedures	PUC § 8387(b)(2)(G): 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.	Section IV.K 1 & 2 Page 3
Vegetation Management	PUC § 8387(b)(2)(H): Plans for vegetation management.	Section IV.G Page 10

	T	1
Inspections	PUC § 8387(b)(2)(I): Plans for inspections of the local publicly owned electric utility's or electrical cooperative's electrical infrastructure.	Section IV.H Page 10
Prioritization of Wildfire Risks	PUC § 8387(b)(2)(J): 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: (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. (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.	Section IV Page 8
CPUC Fire Threat Map Adjustments	PUC § 8387(b)(2)(K): 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.	Section IV.C Page 9
Enterprisewide Risks	PUC § 8387(b)(2)(L): A methodology for identifying and presenting enterprisewide safety risk and wildfire-related risk.	Section IV.B Page 8
Restoration of Service	PUC § 8387(b)(2)(M): A statement of how the local publicly owned electric utility or electrical cooperative will restore service after a wildfire.	Section IV Page 3
	PUC § 8387(b)(2)(N): A description of the processes and procedures the local publicly owned electric utility or electrical cooperative shall use to do all of the following	
Monitor and Audit	 (i) Monitor and audit the implementation of the wildfire mitigation plan. (ii) Identify any deficiencies in the wildfire mitigation plan or its implementation, and correct those deficiencies. (iii) Monitor and audit the effectiveness of electrical line and equipment inspections, including inspections performed by contractors, that are carried out under the plan, other applicable statutes, or commission rules. 	Section VII.D Page 5

Qualified Independent Evaluator	PUC § 8387(c): 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.	Section VII.D Page 5
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C. PURPOSE OF THE WILDFIRE MITIGATION PLAN

This Wildfire Mitigation Plan describes the range of activities that the NPUA is taking to mitigate the threat of power-line ignited wildfires, including its various programs, policies, and procedures. This plan is subject to direct supervision by the Board of Public Utilities and the Needles Public Utility Authority and is implemented by the NPUA's Electric Supervisor. This plan complies with the requirements of Public Utilities Code section 8387 for publicly owned electric utilities to prepare a wildfire mitigation plan by January 1, 2020, and annually thereafter.

The NPUA is a department within the City of Needles. The NPUA Fire Prevention plan is focused on addressing and minimizing potential wildfire-related risks to public health, safety and welfare. The Fire Prevention plan reflects a broad range of activities performed not only by the electric department by through the City of Needles organization. The NPUA's Fire Prevention plan begins with operation, maintenance, inspection, and repair activities aimed at significantly reducing the potential for NPUA's electric facilities to become a source of ignition for a fire. The electric department continues to;

- Clear transmission lines of all trees and vegetation;
- Perform regular inspections all distribution and transmission lines;
- Repair and replacement transformers that could potential cause a risk;
- Coordinate vegetation removal through the City of Needles Parks and Recreation
 Department if an area is determined outside of the electric easements.

Through performing inspections and maintenance, the information gathered will be used to help fire agencies, and other fire-responders to determine the appropriate actions if a wildfire occurs by understanding the surround area.

The NPUA continues to monitor all fires within and surrounding its service territory both inside California and outside in Arizona and Nevada.

This Wildfire Mitigation Plan included the following elements:

- Objectives of the plan;
- Roles and responsibilities for carrying out the plan;
- Identification of key wildfire risks and risk drivers;
- Description of wildfire prevention, mitigation, and response strategies and programs;
- Community outreach and education;
- Metrics for evaluating the performance of the plan and identifying areas for improvement;
- Review and validation of the plan; and

Timelines

D. WILDFIRE MITIGATION PLAN ADOPTION AND SUBMITTAL OF ANNUAL PLAN AND OPPORTUNITIES FOR PUBLIC COMMENT

NPUA's Wildfire Mitigation Plan is presented to the Board of Public Utilities and makes a recommendation to the Needles Public Utility Authority/City Council at a public meeting to adopt a resolution (appendix 1) adopting the current version of the plan. Members from the public are able to provide comments when the plan is presented on the agenda for approval.

All adopted plans are submitted to the California Wildfire Safety Advisory Board (WSAB). WSAB reviews all submitted plan and makes recommendations for improvement.

E. WILDFIRE MITIGATION PLAN WEBSITE LOCATION

II. NPUA'S WILDFIRE MITIGATION PLANS ARE POSTED ON THE CITY OF NEEDLES WEBSITE AND CAN BE LOCATED AT

HTTPS://CITYOFNEEDLES.COM/SERVICES/ELECTRICDEPARTMENTOBJECTIVES OF THE WILDFIRE MITIGATION PLAN

A. MINIMIZING SOURCES OF IGNITION

The primary goal of this Wildfire Mitigation Plan is to minimize the probability that NPUA's transmission and distribution system may be the origin or contributing source for the ignition of a fire. The NPUA has evaluated the prudent and cost-effective improvements to its physical assets, operations, and training that can help to meet this objective. The NPUA has implemented those changes consistent with this evaluation.

B. RESILIENCY OF THE ELECTRIC GRID

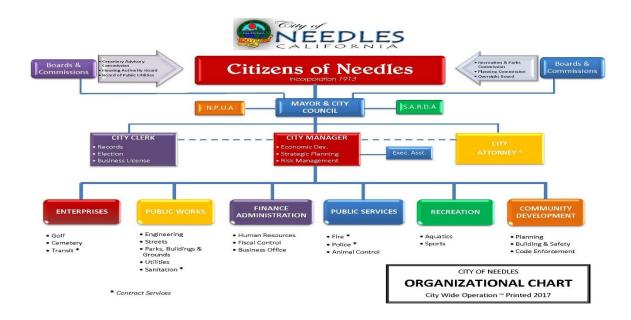
The secondary goal of this Wildfire Mitigation Plan is to improve the resiliency of the electric grid. As part of the development of this plan, NPUA assesses new industry practices and technologies that will reduce the likelihood of an interruption (frequency) in service and improve the restoration (duration) of service.

C. IDENTIFYING UNNECESSARY OR INEFFECTIVE ACTIONS

The final goal for this Wildfire Mitigation Plan is to measure the effectiveness of specific wildfire mitigation strategies. Where a particular action, program component, or protocol is determined to be unnecessary or ineffective, the NPUA will assess whether a modification or replacement is merited. This plan will also help determine if more cost-effective measures would produce the same or improved results.

III. ROLES AND RESPONSIBILITIES

A. UTILITY GOVERNANCE STRUCTURE



The City of Needles (Needles) is a charter city of the State of California located on the eastern border of California. Through the Needles Public Utilities Authority (NPUA), a component unit of the City, the City owns the Public Utilities Department. The Department consists of three Divisions Electric, Water, and Wastewater.

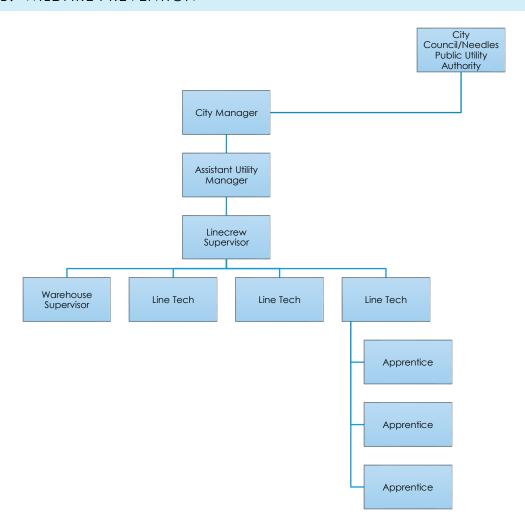
The electric distribution system serving the City was originally owned by the Needles Gas and Electric Company. The Needles Gas and Electric Company was purchased by the predecessor to CP National in 1930. On January 10, 1983, the City purchased the electric distribution system from CP National. However, pursuant to a management agreement, CP National continued to operate the system until July 1990. The City has operated the electric distribution system since that time.

The City's primary interest in purchasing the electric distribution system from CP National stemmed from a change in Federal law in 1982, relating to the sale of hydroelectricity power

from federal projects. Under the revised regulations, inexpensive federal hydroelectricity power from the U.S. Bureau of Reclamation's Parker-Davis Project (Hoover Dam), located on the Colorado River, became available to municipally owned utilities. The City's electorate authorized the issuance of revenue bonds to finance the acquisition of the electric distribution system from CP National.

The City provides electric service to the City and contiguous areas from the Nevada state line, south of Laughlin, Nevada, to the vicinity of Topock, Arizona. Needles' peak electric demand is 22.41 MW (as of August 2018) and services approximately 3,000 customers.

B. WILDFIRE PREVENTION



The electric department is under direct supervision from the Assistant Utility Manager and City Manager, there is one Power Line Supervisor, three power line techs, two Apprentice Lineman and one Warehouse Manager. The electric department is responsible to:

- Operate system in a manner that will minimize potential wildfire risks.
- Take all reasonable and practicable actions to minimize the risk of a catastrophic wildfire caused by NPU electric facilities.

- Coordinate with federal, state, and local fire management personnel as necessary or appropriate to implement NPUA's Wildfire Mitigation Plan.
- Immediately report fires, pursuant to existing POU practices and the requirements of this Wildfire Mitigation Plan.
- Take corrective action when the staff witnesses or is notified that fire protection measures have not been properly installed or maintained.
- Comply with relevant federal, state, and industry standard requirements, including the industry standards established by the California Public Utilities Commission.
- Collect and maintain wildfire data necessary for the implementation of this Wildfire Mitigation Plan.
- Provide regular training programs for all employees having obligations for implementation of this Wildfire Mitigation Plan.

C. WILDFIRE RESPONSE AND RECOVERY

The City's communication strategy is structured so that all stakeholders receive accurate, timely and consistent information, with the overall message of safety first, for the public, employees and contractors.

When an emergency occurs, the electric departments supervisor will be responsible for communicating with the City Manager/Utilities Manager, customers, employees and contractors to set expectation and address emergency issues. This information will be provided through various communication channels such as company phone(s) and radios.

If business operations or households are disrupted, customers expect to know how long they will be impacted. Thus, estimated restoration times will be developed, monitored, adjusted and communicated to all stokeholds as the information becomes available.

D. COORDINATION WITH WATER UTILITIES/DEPARTMENT

During declared emergencies, the electric department is responsible for coordinating efforts and sharing information with neighboring utilities relative to the out of service and damaged critical infrastructure.

During an event, the electric department will perform the following functions;

- Share information and prioritize restoration efforts relative to utility critical infrastructure that is out of service.
- Notify the water department of the downed communication wires.

E. COORDINATION WITH COMMUNICATION INFRASTRUCTURE PROVIDERS

During declared emergencies, the electric department is responsible for coordinating efforts and sharing information with neighboring telecommunications utilities relative to the out of service and damaged critical infrastructure.

During an event, the electric department will perform the following functions;

- Share information and prioritize restoration efforts relative to utility critical infrastructure that is out of service.
- Coordinate with the appropriate telephone and cable company to set poles; and
- Notify the telephone and cable companies of downed communication wires.

F. STANDARDIZED EMERGENCY MANAGEMENT SYSTEM

As a local governmental agency, ¹ NPUA has planning, communication, and coordination obligations pursuant to the California Office of Emergency Services' Standardized Emergency Management System ("SEMS") Regulations, ² adopted in accordance with Government Code section 8607. The SEMS Regulations specify roles, responsibilities, and structures of communications at five different levels: field response, local government, operational area, regional, and state.³ Pursuant to this structure, NPUA annually coordinates and communicates with the relevant safety agencies as well as other relevant local and state agencies.

Under the SEMS structure, a significant amount of preparation is done through advanced planning at the county level, including the coordination of effort of public, private, and nonprofit organizations.

NPUA is a member of the California Utility Emergency Association, which plays a key role in ensuring communications between utilities during emergencies.

¹ As defined in Cal. Gov. Code § 8680.2.

² 19 CCR § 2407.

³ Cal. Gov. Code § 2403(b):

^{(1) &}quot;Field response level" commands emergency response personnel and resources to carry out tactical decisions and activities in direct response to an incident or threat.

^{(2) &}quot;Local government level" manages and coordinates the overall emergency response and recovery activities within their jurisdiction.

^{(3) &}quot;Operational area level" manages and/or coordinates information, resources, and priorities among local governments within the operational area and serves as the coordination and communication link between the local government level and the regional level.

^{(4) &}quot;Regional level" manages and coordinates information and resources among operational areas within the mutual aid region designated pursuant to Government Code §8600 and between the operational areas and the state level. This level along with the state level coordinates overall state agency support for emergency response activities.

^{(5) &}quot;State level" manages state resources in response to the emergency needs of the other levels, manages and coordinates mutual aid among the mutual aid regions and between the regional level and state level, and serves as the coordination and communication link with the federal disaster response system.

IV. WILDFIRE RISKS AND DRIVERS ASSOCIATED WITH DESIGN, CONSTRUCTION, OPERATION, AND MAINTENANCE

A. PARTICULAR RISKS AND RISK DRIVERS ASSOCIATED WITH TOPOGRAPHIC AND CLIMATOLOGICAL RISK FACTORS

Within NPUA's service territory and the surrounding areas, the primary risk drivers for wildfire are the following:

- Extended drought;
- Vegetation type;
- Weather;
- High winds;
- Changing Weather Patterns (Climate Change)

B. CLIMATE CHANGE AND ENTERPRISEWIDE SAFETY RISKS

Western Area Power Administration (WAPA) delivers energy to the City of Needles on a 69KVA transmission line. The distribution line crosses the river in town at 3240 Needles Hwy, the firehouse switchyard. The City of Needles also has a back 69KVA Line that comes from the Nora McDowell Substation located 15 miles north of Needles.

Electric energy is delivered to the City at two substations. Needles #1 Substation has two banks located on Eagle Pass Road in the downtown area of the City. Bank #1 has a base rating of 7.5MVA and a 65 foot rise and force air rating of 9.3MVA.

The second substation, Bush Street Substation, has a base rating of 10MVA and a 65 foot rise with a forced air rating of 12MVA. The Bush Substation serves the west end of town.

The existing substations can handle current peak load requirements of 15,200 kilowatts. From the substations approximately 86 miles of distribution circuits deliver power at 12,000 volts to distribution transformers where the power is reduced to the voltages required by the individual customer's needs. The City electric department provides single phase, 60 Hertz, at one standard voltage (120/240 or 120/208 as may be selected by customers subject to availability at the premises).

While the NPUA makes improvements to the system annually, the main focus for the utility is ground clearance.

NPUA recognizes that climate change is forecasted to increase the frequency and severity of catastrophic wildfires in California. Accordingly, NPUA has reviewed relevant sources of data showing wildfire-related climate change impacts in California and specifically in San Bernardino County through the Cal-Adapt enterprise collaboration. This review included data on forecasted acres burned and wildfire probability,⁴ as well as extreme heat days,⁵ and extended

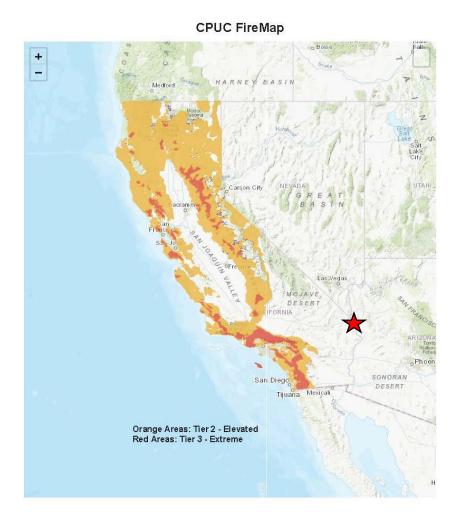
⁴ The CalAdapt Wildfire Tool is available at https://cal-adapt.org/tools/wildfire.

⁵ The CalAdapt Extreme Heat Days Tool is available at https://cal-adapt.org/tools/extreme-heat.

drought.⁶ As described below, NPUA has determined that NPUA's service territory will remain a low risk for wildfires even when considering changes associated with wildfire risk. Further, no part of NPUA's service territory will be disproportionately impacted by wildfire risks associated with climate changes in comparison to the other areas of NPUA's service territory. Therefore, NPUA will continue to pursue the wildfire mitigation strategies described in the Wildfire Mitigation Plan, but will continue to monitor these risks as new information becomes available.

C. CPUC FIRE THREAT MAP

The NPUA is not located within the CPUC Fire Threat Map and therefor is not located within an elevated hazard for the ignition of potential wildfires.



D. HIGH FIRE THREAT DISTRICT

⁶ The CalAdapt Extended Drought Tool is available at https://cal-adapt.org/tools/extended-drought.

NPUA directly participated in the development of the California Public Utilities Commission's (CPUC) Fire-Threat Map,⁷ which designates a High-Fire Threat District. In the map development process, NPUA served as a territory lead, and worked with utility staff and local fire & government officials to identify the areas of NPUA's service territory that are at an elevated or extreme risk of power line ignited wildfire. NPUA has incorporated the High Fire Threat District into its construction, inspection, maintenance, repair, and clearance practices, where applicable.

E. WEATHER MONITORING

NPUA monitors current and forecasted weather data from a variety of sources including:

- United States National Weather Service
- United States Forest Service Wildland Fire Assessment System
- National Fire Danger Rating System
- National Interagency Fire Center Predictive Services for Northern and Southern California.

NPUA assigns one of four operating conditions based on the relevant weather data and knowledge of local conditions:

- (1) Normal: During normal conditions, no changes are made to operations or work policy.
- (2) Elevated: During elevated fire-risk conditions; it must be determined by the Fire Coordinator and/or meteorologist that the burn environment has become conducive for wildfires within he NPUA service territory.
- (3) Extreme: During extreme fire-risk conditions, it must be determined by the Fire Coordinator and/or meteorologist that due to the conditions of high winds, low relative humidity, and the burn environment will create critical fire weather conditions;
- **(4) Red Flag:** If the National Weather Service declares a Red Flag Warning for any portion of the NPUA's Service.

F. DESIGN AND CONSTRUCTION STANDARDS

NPUA's electric facilities are designed and constructed to meet or exceed the relevant federal, state, or industry standard. The NPUA treats CPUC General Order (GO) 95 as a key industry standard for design and construction standards for overhead electrical facilities. NPUA meets or exceeds all standards in GO 95. Additionally, NPUA monitors and follows as appropriate the National Electric Safety Code.

G. VEGETATION MANAGEMENT

NPUA meets or exceeds the minimum industry standard vegetation management practices. For transmission-level facilities, NPUA complies with NERC FAC-003-4, where applicable. For both

⁷ Adopted by CPUC Decision 17-12-024.

transmission and distribution level facilities, NPUA meets: (1) Public Resources Code section 4292; (2) Public Resources Code section 4293; (3) GO 95 Rule 35; and (4) the GO 95 Appendix E Guidelines to Rule 35. These standards require significantly increased clearances in the High Fire Threat District. However, as noted above, no part of NPUA's service territory includes any part of the High Fire Threat District. The recommended time-of-trim guidelines do not establish a mandatory standard, but instead provide useful guidance to utilities. NPUA uses specific knowledge of growing conditions and tree species to determine the appropriate time of trim clearance in each circumstance.

	GO 95, Rule 35, Table 1						
Case	Type of Clearance	Trolley Contact, Feeder and Span Wires, 0-5kv	Supply Conductors and Supply Cables, 750 - 22,500 Volts	Supply Conductors and Supply Cables, 22.5 - 300 kV	Supply Conductors and Supply Cables, 300 - 550 kV (mm)		
13	Radial clearance of bare line conductors from tree branches or foliage	18 inches	18 inches	¼ Pin Spacing	½ Pin Spacing		
14	Radial clearance of bare line conductors from vegetation in the Fire-Threat District	18 inches	48 inches	48 inches	120 inches		

Appendix E Guidelines to Rule 35

The radial clearances shown below are recommended minimum clearances that should be established, at time of trimming, between the vegetation and the energized conductors and associated live parts where practicable. Reasonable vegetation management practices may make it advantageous for the purposes of public safety or service reliability to obtain greater clearances than those listed below to ensure compliance until the next scheduled maintenance. Each utility may determine and apply additional appropriate clearances beyond clearances listed below, which take into consideration various factors, including: line operating voltage, length of span, line sag, planned maintenance cycles, location of vegetation within the span, species type, experience with particular species, vegetation growth rate and characteristics, vegetation management standards and best practices, local climate, elevation, fire risk, and vegetation trimming requirements that are applicable to State Responsibility Area lands pursuant to Public Resource Code Sections 4102 and 4293.

Voltage of Lines	Case 13	Case 14
Radial clearances for any conductor of a line operating at 2,400 or more volts, but less than 72,000 volts	4 feet	12 feet

Radial clearances for any conductor of a line operating at 72,000 or more volts, but less than 110,000 volts	6 feet	20 feet
Radial clearances for any conductor of a line operating at 110,000 or more volts, but less than 300,000 volts	10 feet	30 feet
Radial clearances for any conductor of a line operating at 300,000 or more volts	15 feet	30 feet

H. INSPECTIONS

The NPUA meets or exceeds the minimum inspection requirements provided in CPUC GO 165 and CPUC GO 95, Rule 18. Pursuant to these rules, NPUA inspects electric facilities in the High Fire Threat District more frequently than the other areas of its service territory. Additionally, NPUA staff uses their knowledge of the specific environmental and geographical conditions to determine when areas outside of the High Fire Threat District require more frequent inspections.

If NPUA staff discovers a facility in need of repair that is owned by an entity other than NPUA, NPUA will issue a notice to repair to the facility owner and work to ensure that necessary repairs are completed promptly.

NPUA monitors drought conditions and other relevant factors throughout the year to determine if inspections should be completed on a shorter timeframe.

I. WORKFORCE TRAINING

NPUA has implemented work rules and complementary training programs for its workforce to help reduce the likelihood of the ignition of wildfires. The NPUA inspects power lines and other electrical equipment during potential risk times.

J. RECLOSING POLICY

The NPUA does not have SCADA controlled reclosers, two qualified linemen reclose or close the distribution system. Lockout, tagout safety procedures are followed.

K. DEENERGIZATION

The NPUA has the authority to preemptively shut off power due to fire-threat conditions; however, this option will only be used in extraordinary circumstances. The NPUA will make a case-by-case decision to shut off power based on the following considerations:

- Red Flag Warnings issued by the National Weather Service for fire weather zones that contain NPUA circuits;
- NPUA staff assessments of local conditions, including wind speed (sustained and gust), humidity and temperature, fuel moisture, fuel loading and data from weather stations;
- Real-time information from staff located in areas identified as at risk of being subject to extreme weather conditions;

- Input from San Bernardino County fire experts and vegetation experts;
- Input from local and state fire authorities regarding the potential consequences of wildfires in select locations;
- Alternative ways to reroute power to affected areas;
- Awareness of mandatory or voluntary evacuation orders in place;
- Expected impact of de-energizing circuits on essential services;
- Other operational considerations to minimize potential wildfire ignitions, including the blocking of reclosers on the identified circuit(s);
- On-going fire activity throughout NPUA's territory and California;
- Ability to notify customers;
- Notifications to local governments and public officials; and
- Potential impacts to communities and customers

1. IMPACTS TO PUBLIC SAFETY

The following is a listing off facilities which are special considerations of the public safety during a power outage;

- Hospitals and Emergency Medical Facilities (Colorado River Medical Center);
- Emergency Shelters and Cooling Centers (Colorado River Medical Center, Needles Senior Center);
- Fire, Police, Paramedics and Rescue Facilities;
- Emergency Management Offices (CalOES);
- Water and Wastewater Facilities;
- Critical Utility and Communication Facilities (Frontier, Route 66 Broadband, Z Fiver, Fort Mojave Telecommunications Inc. etc.);
- Mass Transit (BNSF, Airport, Needles Area Transit);
- Critical Flood Control Structures; and
- Fort Mojave Indian Tribe Hazardous Mitigation Facility.

In the event of a wildfire and potential outages those accounts, the Priority Restoration Group will be notified of a potential impact first.

2. CUSTOMER NOTIFICATION PROTOCOLS

The NPUA takes priority in providing notification to all customers who are affected by a power outage. The NPUA will establish a dispatch center at City Hall offices to provide real time information to the customers such as;

- Effective area(s); and
- Estimated restoration time.

V. COMMUNITY OUTREACH AND PUBLIC AWARENESS

When a wildfire is mobilized, the City Manager/Utilities Manager branches to provide public awareness through the following;

- Issuing a wildfire press release;
- Arranging media interviews and press conferences, as necessary.
- Issuing a CodeRed Alert
- Issuing an alert through the City of Needles "Needles Connects" mobile app

VI. RESTORATION OF SERVICE

Restoring power after a major storm or wildfire is a complex task that must be completed quickly and safely. A speedy restoration requires significant communication, along with skilled line workers. The process for restoration is:

- 1. The electric department establishes a command post at the nearest substation to the affected area
- 2. An inspection is conducted from the substation out to the affected area
- 3. Crews inspect the affected area and create a damage assessment
- 4. The restoration team ensures the line is deenergized and grounded
- 5. Replacement of damaged material such as conductors, transformers, insulators is the damaged area
- 6. The effected circuit is re-energized
- 7. Households in isolated are re-energized
- 8. Crews will remain at the command post for one-hour following the full restoration to ensure all circuits are on
- 9. Dispatch will call the crew is calls are reported for no power
- 10. Crews may be dispatched to individual homes to reset the breaker

11.EVALUATING OF THE PLAN

A. METRICS AND ASSUMPTIONS FOR MEASURING PLAN PERFORMANCE

NPUA tracks external risk metrics, performance metrics, and outcome metrics to measure the effectiveness of this Wildfire Mitigation Plan. The external risk factors that NPUA tracks provides context regarding the relative risks that impact the utility that are outside of NPUA's control, such as red flag days and high wind events. The performance metrics that NPUA tracks are leading indicators that describe actions that are intended to reduce the risk of utility caused wildfires, such as inspections and routine vegetation management. The outcome metrics tracked by NPUA are lagging indicators that measure outcomes that may be associated with an increased risk of utility-caused wildfires. These outcome metrics include outages, ignitions, and level 1 safety hazards.

B. METRICS FOR 2023 PLAN

Performance Metrics								
		(Actual)	(Actual)	(Forecast)	(Forecast)	(Forecast)		
Metric type	Progress Metric	2021	2022	2023	2024	2025	Unit(s)	Comments
Substation Interconnection (above-ground system components)	Routine Inspections	4	4	4	4	4	# inspections	Inspections are conducted quarterly
		Outco	me Mo	etrics				
		(Actual)	(Actual)	(Actual)	(Actual)	(To Date)		
Event Category	Cause category	2019	2020	2021	2022	2023	Unit(s)	Comments
Outage Event	Distribution	8	5	7	9	2	# outages	Storm Related
Ignitions*	Distribution	0	0	0	0	0	# ignitions	
Level 1 Safety Hazards**	Distribution	0	0	0	0	0	# hazards discovered	

Notes:

^{*} An "ignition" is deemed to occur if each of the following conditions is met: (1) an IPU owned or controlled facility was associated with the fire; (2) the fire was self-propagating and of a material other than electrical and/or communication facilities; (3) the resulting fire traveled greater than one linear meter from the ignition point; and (4) IPU has knowledge that the fire occurred.

^{**} A Level 1 Safety Hazard is defined as an immediate risk with a high potential impact to public or worker safety or to system reliability, where IPU will take corrective action immediately, either by fully repairing or by temporarily repairing and reclassifying to a lower priority.

C. IMPACT OF METRICS ON PLAN

NPUA reviews these metrics to identify areas of its operations and service territory that are disproportionately impacted by outages, ignitions, or level 1 safety hazards. NPUA will then evaluate potential improvements to the plan or additional mitigation measures to address any such disproportionately affected areas.

D. MONITORING AND AUDITING THE PLAN

This Wildfire Mitigation Plan will be presented to the Board of Public Utilities (BPU), Needles Public Utilities Authority (NPUA) and the City Council. BPU will present this plan to Needles Public Utility Authority on an annual basis. All presented plans will include recommendation for improvement as applicable to the NPUA from WSAB.

The NPUA will perform an annual audit which will review all parts of the Wildfire Mitigation Plan, as well as a review of both pending and completed maintenance work identified within the NPUA's service territory. As well as verifying overhead and underground facilities that were inspected in the previous year.

E. IDENTIFYING AND CORRECTING DEFICIENCIES IN THE PLAN

Upon finding any deficiencies in performance against the plan or need for improvement in the Plan itself, the NPUA will be responsible for correcting the deficiencies.

F. MONITORING THE EFFECTIVENESS OF INSPECTIONS

NPUA's third party verifier will review various aspects of the risk reduction measure of party of this Wildfire Mitigation Plan. Depending on the quality of performance and value received from the third-party entity, the process may be expanded further to additional potential risk reduction measures.

Appendix 1:

DRAFT RESOLUTION 2024-XX

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF NEEDLES, CALIFORNIA, ADOPTING THE NEEDLES PUBLIC UTILITY WILDFIRE MITIGATION PLAN VERSION 4.0.

WHEREAS, the City of Needles/Needles Public Utility Authority is a general law municipality governed by elected city council members; and

WHEREAS, City of Needles owns and operates a retail electrical energy distribution system which serves load to end-use costumers in an assigned area of service (Needles Public Utility Authority); and

WHEREAS, SB 901, amending California Public Utilities Code ("CPUC") Section 8387, requires all POUs to prepare a wildfire mitigation plan before January 1, 2020, and annually thereafter; and

WHEREAS, SB 1054, amending CPUC Section 8387, requires each POU to submit its wildfire mitigation plan to the California Wildfire Safety Advisory Board (WSAB") by July 1, 2020 and every annually thereafter; and

WHEREAS, pursuant to California Public Utilities Code Section 326.2, WSAB will review City of Needles/Needles Public Utility Authority's Electric Utility's Wildfire Mitigation Plan and will provide comments and advisory opinions on the content and sufficiency of each plan.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Needles, California, declares, determines, and orders as follows:

SECTION 1. Adopt Resolution, adopting City of Needles/Needles Public Utility Authority Electric Utility's Wildfire Mitigation Plan ("WMP") dated June 2023 and authorize the City Manager and his designees to implement the mitigation measures documented in the plan.

SECTION 2. The City Clerk shall certify to the adoption of this Resolution and shall cause a certified resolution to be filed in the book for original resolutions.

PASSED, APPROVED, AND ADOPTED at a regular meeting of the City Council of the City of Needles, California, held on the 13th day of June 2023, by the following roll call vote:

AYES:	
NOES:	
ABSENT:	
ABSTAIN:	

Mayor

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	ATTEST:	City Clerk
APPROVED AS TO FORM:		
	City Attorney	