



WILDFIRE MITIGATION PLAN

Anza Electric Cooperative, Inc.

A Touchstone Energy® Cooperative 

VERSION 3.0

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I. OVERVIEW

A. POLICY STATEMENT

Anza Electric Cooperative, Inc. (AEC) exists to provide safe, affordable, and reliable utility service. AEC takes the safety of staff and the membership seriously. The cooperative has developed this Wildfire Mitigation Plan in compliance with State law, to identify potential risks within our system, prevention methods, and to ensure the safety of staff and our membership.

B. PURPOSE OF THE WILDFIRE MITIGATION PLAN

AEC developed this Wildfire Mitigation Plan meeting the requirements of the California Public Utilities Code, Chapter 6, §8387. (a), which requires each local publicly owned electric utility and electrical cooperative to develop a Wildfire Mitigation Plan. AEC's Wildfire Mitigation Plan provides a comprehensive overview of the organizational and operational activities AEC undertakes in addressing the risk of fire within the Cooperative's service territory.

Following several years of drought conditions and strong Santa Ana wind events, the risk of wildfire caused by utility assets has increased significantly.

As evidenced in this Wildfire Mitigation Plan, AEC has a company-wide focus on addressing and minimizing wildfire related risks to the health, safety and welfare of our membership. AEC is committed to fire prevention, safety, mitigation, control, and recovery and has taken a leadership role in addressing the threat of fire ignited with utility assets and facilities within our service territory. To enhance the capabilities of our membership and local communities defense against a wildfire event, AEC will share our personnel, resources, and information to effectively communicate all relative material.

AEC's Wildfire Mitigation Plan reflects a broad range of activities performed throughout the company. The Wildfire Mitigation Plan is subject to the direct supervision of the General Manager and delegated to senior management. All Cooperative employees are responsible for contributing to and performing the activities described in the Wildfire Mitigation Plan. AEC's Wildfire Mitigation Plan begins with system design, construction, operation, maintenance, inspection, and repair activities aimed at significantly reducing the potential for AEC facilities to become the source of ignition for a fire. Nevertheless, the presence of our facilities and the range of climate and fuel (vegetation) conditions faced in the AEC service territory present some risk that our facilities, no matter how diligent or conservative our practices, might become the original or contributing source of ignition for a fire. To address this risk, AEC has

implemented extensive operational programs designed to monitor the system closely whenever the threat of fire is elevated so that, in the event of an ignition, the threats to public safety from a fire are quickly abated or mitigated as fully and quickly as possible. Such programs include gathering and analyzing data from AEC's extensive real-time weather monitoring system, National Oceanic and Atmospheric Administration (NOAA), data received from Southern California Gas and Electric (SDG&E), Southern California Edison (SCE) and the use of the USDA Forest Service's National Fire Danger Rating System for monitoring operational practices. These combined resources will be used to determine where and when the threat of a wildfire will present itself, which in turn facilitates the immediate organization and implementation of AEC's appropriate response to such threat.

AEC monitors and responds to all known fires within the Cooperative's service territory and pays particular attention to wildland fires. These fires burn vegetation, are capable of quickly spreading and have the potential to threaten AEC facilities and assets.

In the event fire conditions threaten public safety, AEC facilities or assets, AEC will mobilize an appropriate range of resources as provided in the AEC Emergency Response Plan (ERP).

The AEC Wildfire Mitigation Plan is a "living document", subject to modification as regulations are updated, advances in technology occur, and our operational circumstances change. Additionally, AEC will coordinate with the County of Riverside Supervisor's Office, all local elected representative's offices at the State and Federal level, Riverside County Emergency Management Department, tribal entities, CAL FIRE, SCE, SDG&E, and our membership, and will review our Wildfire Mitigation Plan to ensure continuous improvement and maximum effectiveness. Furthermore, as part of our Community Outreach Program, AEC has coordinated with the County of Riverside's Emergency Management Department to provide our membership with a variety of resources and information for disaster preparedness and self-reliance. Last, AEC recognizes the important aspects of communicating fire prevention, mitigation and recovery activities with our members and is committed to utilizing every form of communication method available as outlined (but not limited too) the AEC Wildfire Mitigation Plan.

The goals and activities included in the AEC Wildfire Mitigation Plan focus on a comprehensive and integrated assessment of the risks posed by AEC's distribution system. This involves an assessment of AEC's equipment and facilities, weather conditions, the density and condition of potential fuels such as vegetation, and the potential threat to public safety. AEC's commitment to fire safety, prevention, mitigation, response, and recovery is a crucial element of our mission.

With this overarching view of fire risk assessment in mind, AEC presents the activities comprising its Wildfire Mitigation Plan.

C. ORGANIZATION OF THE WILDFIRE MITIGATION PLAN

This Wildfire Mitigation Plan includes 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 Strategies;
- Community outreach and public awareness;
- Restoration of Service
- Metrics for measuring the performance of the plan and identifying areas for improvement;
- Independent evaluation

II. OBJECTIVES OF THE WILDFIRE MITIGATION PLAN

A. MINIMIZING SOURCES OF IGNITION

The AEC Wildfire Mitigation Plan is founded upon the goal of minimizing the probability that the various components of our distribution systems might become the original or contributing source of ignition for a fire. AEC gathers and analyzes data from the National Weather Service and weather stations (provided by Davis Instruments, supplied by Western Weather) throughout our system to determine where and when the threat of a wildfire will present itself, which in turn facilitates the immediate organization and implementation of AEC's response appropriate to the threat. Additionally, AEC continues to evaluate prudent, cost-effective changes and improvements to its physical assets that could and should be made to meet this objective and is implementing preventative operations, construction and maintenance plans consistent with these evaluations.

B. RESILIANCY OF THE ELECTRIC GRID

The secondary goal of this Wildfire Mitigation Plan is to improve the resiliency of the electric grid. AEC continues to evaluate and incorporate new technologies and equipment into its electric system. AEC's Operations Department is responsible for evaluating new equipment and use standards for emerging and pre-commercial technologies. Using equipment failure data,

the department determines which technologies should be incorporated into the AEC's system and which could be improved prior to application. This department continually evaluates the many new types of technologies which may improve electric reliability and public safety and gives special attention to technologies that may contribute to AEC's fire-safety goals and objectives.

As an example, AEC is currently working on research with a private company funded by a Department of Energy (DOE) grant to detect downed lines on remote sections of circuits in Districts 2 and 3 by sending carrier signals over the power lines back to receiving units at the sub-station. If successfully developed and deployed, AEC would have rapid notification of downed power lines and be able to act accordingly. This has entered the second phase of funding by the DOE and progress is continuing.

Additionally, AEC is leveraging its assets to address fire threats. In 2015, AEC began building the first phase of our fiber optic network known as ConnectAnza. ConnectAnza is designed to connect fiber to the home / business for our residents and businesses within our service territory. Additionally, ConnectAnza provides wireless service to hard-to-reach areas in remote environments and will provide real time data once connected to both our SCADA and weather monitoring network. AEC currently has two of the three phase solid state reclosers connected to our fiber network and will have the third completed in the near future. The weather monitoring network provides weather data in ten-minute increments that includes a variety of parameters such as humidity levels, wind speed, wind gust speed, wind direction, temperature, and dew point. This state-of-the-art weather monitoring system provides AEC with fire-weather detection, a fire-warning weather system, and aides fire-mitigation. Last AEC is developing a partnership with both SCE and SDG&E to share weather data as it relates to our shared service territory borders. AEC continues to research multiple vendors specializing in early fire detection systems to develop new and improved ways of spotting fires before they become uncontrolled wildfires.

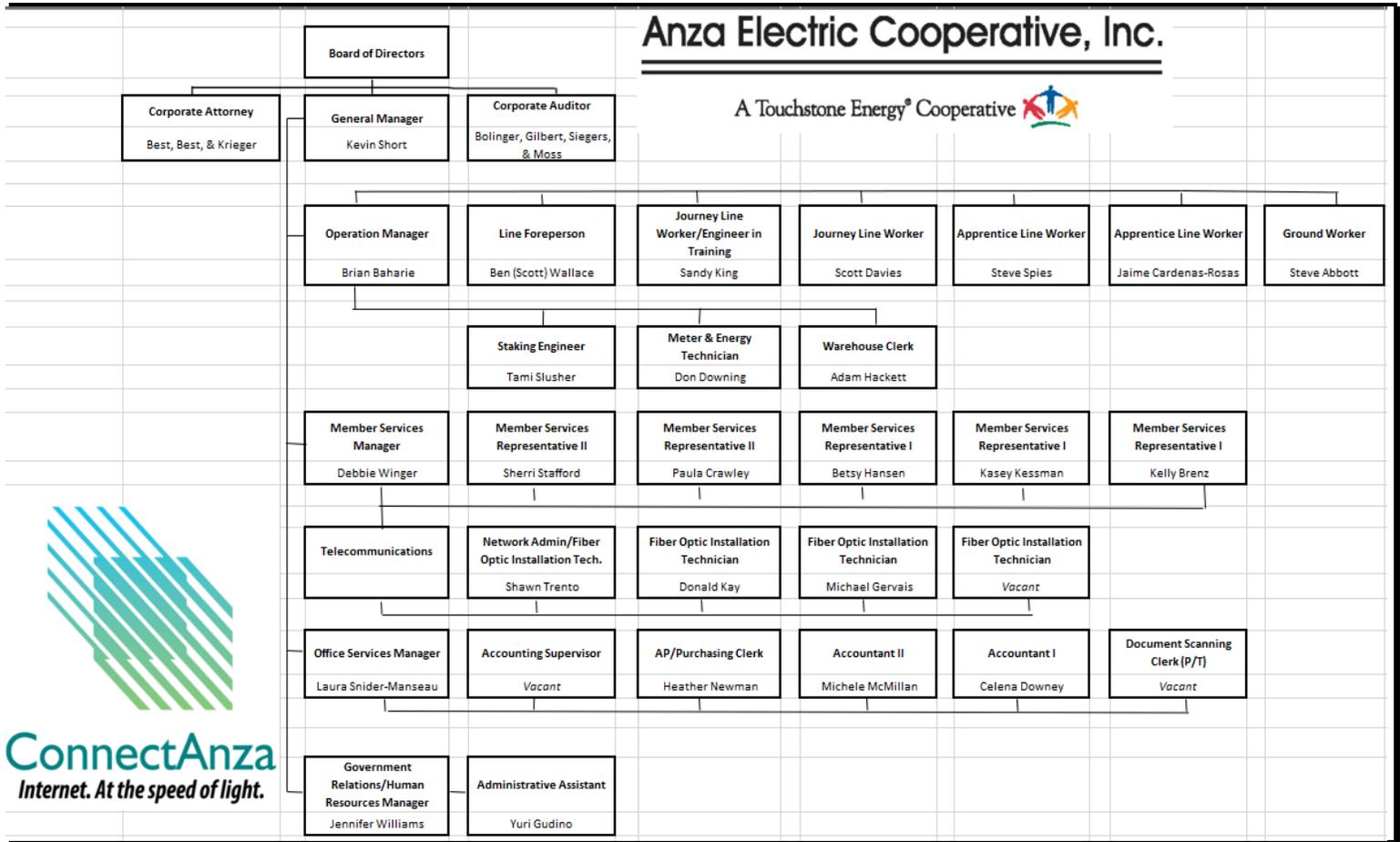
C. MINIMIZING UNNECESSARY OR INEFFECTIVE ACTIONS

The final goal for this Wildfire Mitigation Plan is to measure the effectiveness of specific wildfire mitigation strategies. Where a particular action, program, or protocol is determined to be unnecessary or ineffective, AEC 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 better results.

III. ROLES AND RESPONSIBILITIES

A. AEC ROLES AND RESPONSIBILITIES

AEC Origination Chart



AEC’s Wildfire Mitigation Plan is subject to the direct supervision of the General Manager and delegated to senior management as follows:

Operations Manager is responsible for the evaluation of the High Fire Threat District boundaries, inspections of overhead distribution facilities and remediation of deficiencies in the HFTD, quality oversight and control, system hardening, vegetation management, developing protocols for Public Safety Power Shut-offs, and researching alternative technologies.

Government Relations Liaison is responsible for providing notification of Public Safety Power Shut-offs and the protentional for an event to the appropriate government agencies, including the Riverside County Emergency Management Department (EMD), all local, state and federal elected representative's offices and local tribes, and emergency preparedness education and engagement with AEC members in coordination with EMD and other appropriate resources.

Office Services Manager is responsible for complete and accurate accounting practices for all Cooperative operation including financial risk analysis pertaining to wildfire mitigation efforts, including purchasing of equipment and setting budgets.

Member Services Manager is responsible for providing communications to AEC's membership via social media and member messaging pertaining to current or forecasted weather warnings provided by the National Weather Service, the potential risk of wildfire as it is related to weather conditions, Public Safety Power Shut-off potential and planned events, outage information and updates, and emergencies.

Telecommunications is responsible for ensuring that all internal methods of communication remain functional and operational at all times and ConnectAnza broadband and VOIP services are functioning and operational for all members who are connected.

All Cooperative employees are responsible for contributing to and performing the activities described in this Wildfire Mitigation Plan including:

- Conduct work in a manner that will minimize potential fire dangers.
- Take all reasonable and practicable actions to prevent and suppress fires resulting from AEC electric facilities.
- Coordinate with federal, state, and local fire management personnel to ensure that appropriate preventative measures are in place.
- Immediately report fires, pursuant to specified procedures.
- Take corrective action when observing or having been notified that fire protection measures have not been properly installed or maintained.
- Ensure compliance with relevant federal, state, and industry standard requirements.
- Ensure that wildfire data is appropriately collected.
- Maintain adequate training programs for all relevant employees.

The Governing Board of Directors for the electric cooperative must review and approve the Wildfire Mitigation Plan on an annual basis.

B. COORDINATION WITH WATER UTILITIES/DEPARTMENT

AEC's service territory is in a rural unincorporated area of Riverside County. All services depend on a well for water. Most residential and commercial services have their own well on their property, however, there are several small water "districts" that service a fraction of residential and commercial services. These shared well water districts are as follows:

- Lake Hemet Municipal Water
- Paradise Valley Mutual Water
- Trails End Water Company
- Chapman Ranchos Water
- Alpine Village Water Company
- Springcrest CW
- Western Water Conservation
- Anza Mutual water Company
- Cottonwood Well
- Thomas Mountain Water Company

In the event of a known planned extended outage, AEC's Member Services Representatives make every effort to contact each water district to provide enough time to prepare their services. Additionally, if the point of contact for the water district has signed up for AEC's Member Messaging Notifications, they will also receive all text message updates that are sent out to all of our members.

In the event of a prolonged outage due to a fire or other disaster, AEC will coordinate with the water district and the Riverside County Emergency Management Department (EMD) to provide generators for backup power to these services if needed and available.

C. COMMUNICATION AND COORDINATION WITH RIVERSIDE COUNTY EMERGENCY MANAGEMENT DEPARTMENT, CRITICAL FIRST RESPONDERS, HEALTH CARE FACILITIES, AND OPERATORS OF TELECOMMUNICATIONS INFRASTRUCTURE.

In advance of PSPS events or other disasters that may lead to an extended outage, AEC will contact all local government agencies, including all elected representative offices and the Riverside County Emergency Management Department, to inform them about the PSPS protocol, including the location of the circuits which may be shut off during a PSPS event.

When a PSPS event is a possibility, AEC management team will manage both the operational and communication tasks associated with an event, which includes interfacing with local governments' emergency operations first responders such as police and fire agencies, other government agencies, and essential members, such as schools, telecommunications companies, the local prison labor camp and all Indian tribes.

When feasible, the timeline for notifications to local government and other agencies (as noted above) is as follows:

- 72 hours prior to a possible PSPS:
 - Monitor Conditions
 - Riverside County EMD
- 48 Hours prior notify members of PSPS monitoring event
 - Fire Stations
 - First Responders
 - Schools
 - Medical Facilities
 - Local Tribes
 - Local Telecommunications
 - Local elected offices
 - Contact members on the life support list directly
 - Businesses as appropriate
 - Update EMD – Provide circuit information for any imminent threats
- 24 Hours prior provide update notification
 - Update EMD – Provide circuit information for any imminent PSPS
 - Update members of current threat conditions and any imminent PSPS
 - Update Tribes of current threat conditions and any imminent PSPS
 - Update businesses of current conditions and any imminent PSPS
 - Update local fire stations, first responders, law enforcement and medical facilities of current conditions and any imminent PSPS
 - Update schools of current conditions and any imminent PSPS
 - Update local telecommunications of current conditions and any imminent PSPS
- If PSPS is initiated:
 - Notify EMD, first responders, law enforcement, local fire stations
 - Impacted tribes, schools, medical facilities, local businesses
 - Notify members and provide areas that are under a PSPS

- Provide updates during the PSPS for conditions and possible restoration of power
- Following a PSPS and power has been restored
 - Notify EMD, first responders, law enforcement, local fire stations
 - Impacted tribes, schools, medical facilities, local businesses
 - Notify members and provide notification of areas were under a PSPS
 - Notify local elected offices
 - Notify local telecommunications

PSPS and/or emergency notifications are delegated to the following departments:

- Member Services will contact the following:
 - life support list
 - Businesses
 - Fire Stations
 - First Responders
 - Schools
 - Medical Facilities
 - Telecommunications
- Government Relations will contact the following:
 - EMD
 - Tribes
 - Local elected offices

Per GO 166 guidelines, AEC shall maintain lists of contacts at each agency which shall be readily accessible to employees responsible for coordinating emergency communications.

AEC is a member of the California Utility Emergency Association, which plays a role in ensuring communications between utilities during emergencies. AEC also participates in the Western Energy Institute’s Western Region Mutual Assistance Agreement, which is a mutual assistance agreement covering utilities across a number of states.

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 AEC’s service territory and the surrounding areas, the primary risk drivers for wildfire are the following:

- Extended drought;
- Vegetation type;
- High winds;
- Steep terrain;
- Lack of early fall rains;

B. ENTERPRISE WIDE SAFETY RISKS

Wildfire has been identified as one of the greatest weather-related risks to AEC due to the region’s complex topography, lack of summer and early fall rains, and susceptibility to dry Santa Ana winds that can accelerate fire growth. It was this combination of factors that led to the Cedar Fire of 2003 and the Witch Fire of 2007 – both of which rank among the top 10 largest wildfires in California history – that spread across San Diego County in terrain similar to that of AEC’s service territory and had large impacts to SDG&E. Because of the known wildfire risk and the potential impacts on utility operations, AEC will take a multitude of steps to adapt to our changing climate conditions across our service territory. These steps have been described in depth in this plan and include the identification of locations at greatest risk for fire growth within the service territory and instituted a process to make the electric system more resilient to wildfires that includes replacing wooden poles with ductile-iron poles, installing new technologies to make the electric grid more resilient to fire and building upon a robust vegetation management program to keep trees and brush clear of power lines.

Despite the proactive approach to mitigating fire risk, increases in temperature and prolonged periods of drought in the decades to come will likely lead to high risk fire areas expanding from the foothills and mountains into the lower elevation coastal canyons and wildland interfaces that have proven to historically be at lower risk for fire growth. This would result in the potential for more damaged or destroyed wooden poles with any fires that occur and may even cause household impacts if the fires run up the canyons into densely populated neighborhoods.

C. CHANGES TO CPUC FIRE THREAT MAP

AEC developed its High Fire Threat Districts maps according to the Commission’s rules and regulations governing the development and maintenance of fire-threat maps as part of Phase 3 of Rulemaking 08-11-005. However, this rulemaking is now closed and the task of developing

fire-threat maps and regulations for new High Fire-Threat Districts was carried over to a new rulemaking R. 15-05-006. AEC is actively participating in both proceedings and will update its fire threat map pursuant to the further direction of the Commission.

V. WILDFIRE PREVENTATIVE STRATEGIES

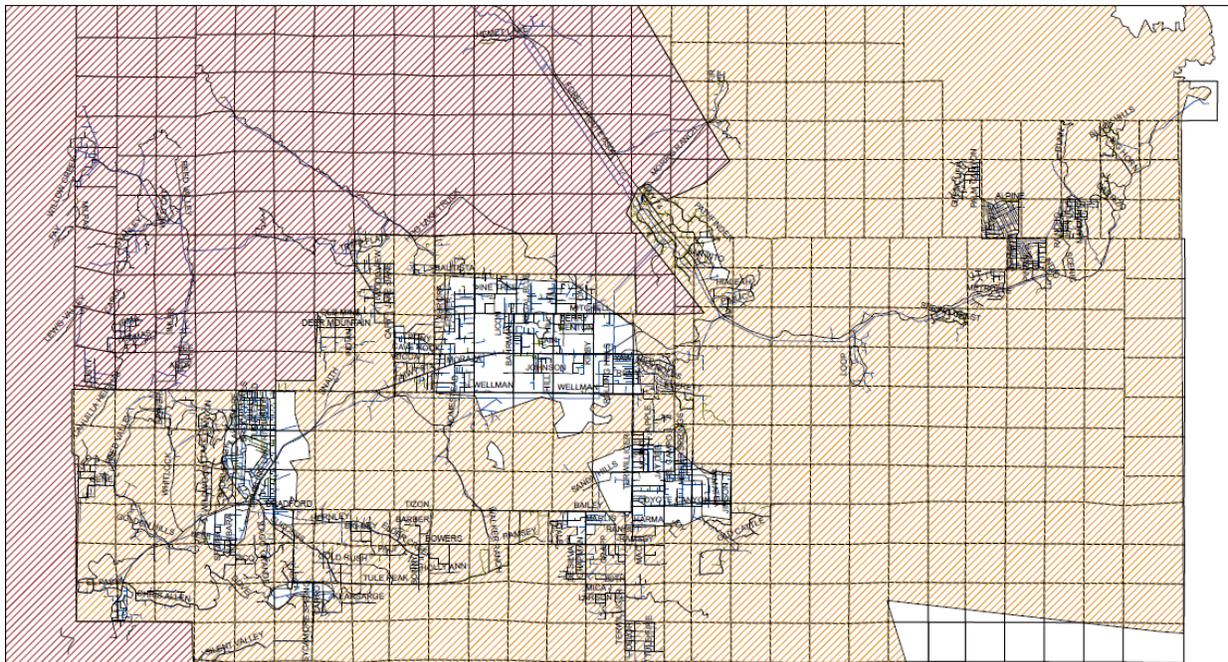
A. HIGH FIRE THREAT DISTRICTS

AEC has completed participation in modifications to the CPUC Fire map within its service territory and identified those areas at greatest risk for a wildland fire occurrence. In the map development process, AEC served as a territory lead, and worked with utility staff and local fire officials to identify the areas of AEC's service territory that are at an elevated or extreme risk of power line ignited wildfire. The completion of these efforts identified two sets of geographic areas based on the potential risk for an area fire and the threat to public safety posed by such fire. The first area designation is known as District 2, or the general geographic area most prone to wildfire due to the local environmental conditions and features. The second area designation is known as District 3, or areas within District 2 where the risk is significantly greater.

AEC has incorporated the High Fire Threat Districts into its construction, inspection, maintenance, repair, and clearance practices.

As part of its response to Commission Rulemaking R. 15-05-006, AEC obtained a copy of the CPUC fire map of its service territory to identify those areas where, due to local environmental conditions and features, the potential for wildfire was relatively high (Figure 1). The District 2 designation is used to identify the areas where enhancements to rules, regulations and standards could reduce the potential for electric systems and facilities to ignite fires and hereby increase public safety and system reliability.

Figure 1



District 2 = gold, District 3 = red

The District 2 mapping effort followed several key objective principles. First, District 2 was defined using parameters that would result in relatively constant boundaries not subject to continuous change and revision. This resulted in the use of criteria that tended to be conservative, i.e., more inclusive than exclusive, so that the District 2 would describe the complete domain where the potential for wildfire was relatively high. Additionally, the District 2 map would need to be easily understood by key personnel and users, whether utility or other public officials, who might rely upon it in performing their job responsibilities.

In performing the mapping task, AEC began with the vegetation data developed and maintained by the California Department of Forestry and Fire Protection ("CAL FIRE"). These data were available on the CAL FIRE and Resource Assessment Program ("FRAP") website. Using this data, AEC mapped the fire threat District 2 in its service territory. This encompasses most of the vegetated areas of the Cooperative's service territory. Compared to the District 3 described below, District 2 includes areas where the density of vegetation is relatively low. The CPUC Fire Threat maps describe the fire risks in certain areas as "little or no threat", "moderate", "high", "very high", and "extreme". Generally, District 2 includes all the areas described in the CPUC Fire Threat maps as "extreme" and "very high" risk, and some portion of the areas described as "high" risk.

The District 3 represents those areas within the District 2 where local environmental conditions and features combine to create the highest risk of fire in the AEC service territory. data from

the Cal Fire threat map, AEC staff identified areas where the combination of relatively dense vegetation, relatively high winds, and development (e.g., homes, schools, and other community assets) presented the highest risks of fire, property losses and injury from fire. Thus, the District 3 map identifies the areas marked by an overlap of (1) the "highest risk vegetation", i.e., where the vegetation was relatively dense and in close proximity to housing, business and/or community development, and (2) locations prone to high winds. As with the District 2 map, Areas prone to high winds will be identified using data from weather stations located throughout the AEC service territory. The data will be used to identify locations where there exists a reasonable probability that wind speeds would exceed fifty miles-per-hour (50 mph) under the "Santa Ana" wind conditions usually experienced during the late summer and fall in southern California.

The District 3 maps will be reviewed periodically and adjusted to reflect environmental conditions expected to be present during the coming year's fire season, typically the late summer and fall seasons of each year. As noted above, AEC will continue to use its District 2 map until such time as the Commission issues its final rules and regulations governing the development and maintenance of fire-threat maps as part of Phase 3 of Rulemaking 08-11-005, which is now included in rulemaking R.15-05-006. AEC continues to participate in that proceeding and will update its High-Risk Fire map pursuant to the further direction of the Commission

B. WEATHER MONITORING

Although the risk of fire is a year-round reality, there are certain recurring environmental and weather conditions, particularly during the late summer and early fall, when the risks of and from fire, particularly from uncontrolled wildfires, in the AEC service territory are abnormally high and the dangers most severe. AEC's fire-prevention and risk-mitigation activities begin with intensive data gathering and data analysis so that, if and when these abnormal and dangerous conditions are anticipated or occur, AEC is prepared to mobilize personnel and resources to abate, mitigate and respond to these conditions and any potential fire threats.

AEC's utilizes weather databases that are constantly updated using weather data provided by a number of sources, including the United States National Weather Service (NWS) and AEC's weather monitoring stations. To date, AEC has installed weather monitoring stations at 5 strategic locations in the high fire threat District 2 and District 3 and will actively deploy more as the need arises. To further improve our situational awareness, AEC is researching adding high visibility, high resolution cameras that will be controlled remotely and can rotate a full 360 degrees.

AEC's weather monitoring stations provide over 3,000 data points per day. Additionally, AEC is developing a partnership with SCE and SDG&E to share weather related data on the borders in which the SCE, SDG&E and AEC's service territories meet. Last AEC pays close attention to the USDA Forest Service's National Fire Danger Rating System and has incorporated this rating system into our operating conditions assessment.

The combined resources will provide a detailed daily forecast of weather conditions relevant to AEC's operations. The forecasts, a combination of heat, humidity, wind, and other conditions, are combined into an "Operating Condition" assessment, which tracks the potential for fires occurring in any region of the AEC service territory. There are four (4) Operating Conditions used for these purposes:

- **Normal Condition:** This condition is declared when it has been determined that weather conditions are not conducive for wildfires within the AEC service territory;
 - ***Fire Danger Level: Low:***
When the fire danger is "low" it means that fuels do not ignite easily from small embers, but a more intense heat source, such as lightning, may start fires in duff or dry rotten wood. Fires in open, dry grasslands may burn easily a few hours after a rain, but most wood fires will spread slowly, creeping or smoldering. Control of fires is generally easy.
- **Elevated Condition:** This condition is declared when it has been determined that weather conditions have become conducive for wildfires within the AEC service territory;
 - ***Fire Danger Level: Moderate***
When the fire danger is "moderate" it means that fires can start from most accidental causes, but the number of fire starts is usually pretty low. If a fire does start in an open, dry grassland, it will burn and spread quickly on windy days. Most wood fires will spread slowly to moderately. Average fire intensity will be moderate except in heavy concentrations of fuel, which may burn hot. Fires are still not likely to become serious and are often easy to control.
- **Extreme Condition:** This condition is declared when it has been determined that a combination of high winds, low relative humidity, and the burn environment will create critical fire weather conditions; and,
 - ***Fire Danger Level: High***
When the fire danger is "high", fires can start easily from most causes and small fuels (such as grasses and needles) will ignite readily. Unattended campfires and

brush fires are likely to escape. Fires will spread easily, with some areas of high intensity burning on slopes or concentrated fuels. Fires can become serious and difficult to control unless they are put out while they are still small.

- **Red Flag Warning (RFW) Condition:** Red Flag Warning Condition is declared by the National Weather Service when high winds and low relative humidity are forecasted to occur for an extended period of time. Depending on the condition reported various operational changes and rules appropriate to each condition will be triggered and implemented.
 - ***Fire Danger Level: Very High***

When the fire danger is "very high", fires will start easily from most causes. The fires will spread rapidly and have a quick increase in intensity, right after ignition. Small fires can quickly become large fires and exhibit extreme fire intensity, such as long-distance spotting and fire whirls. These fires can be difficult to control and will often become much larger and longer-lasting fires.
 - ***Fire Danger Level: Extreme***

When the fire danger is "extreme", fires of all types start quickly and burn intensely. All fires are potentially serious and can spread very quickly with intense burning. Small fires become big fires much faster than at the "very high" level. Spot fires are probable, with long-distance spotting likely. These fires are very difficult to fight and may become very dangerous and often last for several days.

Each day, AEC 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:

- a. Fire District 2: reclosures are set to non-reclose, patrols are conduction on any section that has been de-energized – beginning with the load side of segment to sectionalized device. If distribution outage is caused by sub-station outage, the line may be energized without patrolling.
- b. Fire District 3: reclosures are set to non-reclose, patrols are conduction on any section that has been de-energized – beginning with the load side of segment to

sectionalized device. If distribution outage is caused by sub-station outage, the line may be energized without patrolling.

(3) Extreme/Red Flag: During extreme fire-risk conditions and if the National Weather Service declares a Red Flag Warning for any portion of AEC's service territory:

- a. Fire District 2: reclosures are set to non-reclose, patrols are conducted in areas that present greatest risk within this District, patrols entire line of any de-energized section before energizing. If distribution outage is caused by sub-station outage, segment can be re-energized after a complete patrol of all line segments.
- b. Fire District 3: reclosures are set to non-reclose, patrol entire line segment before energizing. If >56 mph wind gusts occur at weather station closest to line segment, observers placed close to affected area. Crew deployment plan is activated.

The daily weather forecast and Operating Condition are broadcast by electronic media to personnel whose activities are affected by the declaration of the Operating Condition - the forecast, particularly when the threat of fire is high or rising, will be updated and rebroadcast as conditions warrant and as determination is appropriate. The forecast is broadcast in real-time to all of AEC employees. Personnel receiving these weather forecasts are trained to adjust their activities, duties and priorities based upon the Operating Condition reported.

Generally, as actual or forecasted wind speeds, measured in terms of both sustained winds (the average wind speed across ten-minute intervals) and wind gusts (the highest wind speed occurring during a three-second period within a ten-minute interval), increase, the Operating Condition will change (or "be elevated"), from "Normal" to "Elevated Condition", "Extreme Condition" or "Red Flag Condition", depending on environmental and weather conditions and the strength of the winds being experienced or forecasted. With each step-change in the Operating Condition, personnel are placed on appropriate levels of alert. In addition, the level of system monitoring and, ultimately, system operations and activities, are elevated according to the prevailing Operating Condition. Most importantly, as wind speeds increase, AEC deploys field crews and the entire distribution system will be placed on "One Shot" to mitigate the increased probability that a wildfire will be ignited.

C. DESIGN AND CONSTRUCTION STANDARDS

To reflect the more stringent design and construction standards adopted by the Commission and to improve the performance of the AEC system in terms of meeting fire-prevention goals, the AEC Facilities Design Manual, originally designed to meet the requirements of the Rural Utility Service, is being modified to include an entirely new section aimed at providing guidance for hardening circuits against the risk of fire. These modifications include both proactive measures designed to reduce the incidence of ignitions and reactive measures by which AEC can respond to the threat of fires and mitigate the threat of fires.

AEC is also an aggressive advocate for modernizing those portions of the Commission's General Order 95 which provide the rules and regulations governing the design and construction of overhead electric and communications facilities. AEC continues to participate in the discussions regarding fire safety regulations for a new "High Fire Risk District" with stakeholders in rulemaking R.15-05-006 with the objective of improving General Order 95's focus on fire-safety and system reliability objectives. Fire safety begins with the design and construction standards pursuant to which utility facilities are designed, built and operated, so improving these regulations will provide the foundation for assuring that facilities built in the future will be stronger and safer than those built under prior versions of the rules.

Wood-to-Ductile Iron Pole Replacement Program

AEC is implementing a program to undertake replacement of wood poles used in those portions of AEC's distribution system located in the District 2 and District 3, substituting ductile iron poles in their place. Wood poles are constructed to withstand working loads under stress of fifty-six miles per hour (56 mph) wind speeds. These new ductile iron poles are designed to withstand working loads under the stress of eighty-five mile-per-hour (85 mph) wind speeds and in some specific cases up to one hundred and ten miles-per-hour (110mph). To date, AEC hired professional pole inspection contractors to inspect our existing wood poles and has begun installation of the new ductile iron poles to replace any wood poles that have become unserviceable based on the results of pole inspections conducted in the high fire threat zones. AEC is assessing the viability of higher strength conductors to be installed in conjunction with our new ductile iron poles and increased spacing between lines beyond the requirements of Commission General Order 95, resulting in a decrease in the likelihood of energized lines coming into contact with one another or arcing after being struck by flying debris

D. VEGETATION MANAGEMENT

AEC currently maintains records for all areas of concern located near its power lines. All the inventoried areas in AEC's database are monitored using known species and specimen growth

rates as provided by our vegetation maintenance contractor, with additional consideration given to the amount of rainfall occurring during periods affecting overall tree growth, and past pruning practices. Each tree within our distribution right of way (ROW) is visited by a contracted trimmer on an annual cycle. The annual inspections are routine maintenance and hazard tree assessments to ensure that every tree remains fully compliant for the duration of the cycle and/or is trimmed according to accepted standards and clearances. The tree evaluation includes 360-degree assessment of every tree within the 'strike zone' of the conductors and maximize time-of-trim clearances. All tree trimming is conducted in accordance to General Order 95., Rule 35. This rule requires a minimum of 18" (inches) of clearance between vegetation and energized conductors (wires) carrying more than 750 volts. Additionally, AEC adheres to California Public Resources Code (PRC) 4293, which requires a 4-foot radial clearance be maintained at all times for conductors between 2,400 and 72,000 volts. To the extent unsafe clearances may exist a service order to clear vegetation is issued and trimming is completed annually.

AEC also manages over 12,000 poles within the CAL FIRE jurisdictional areas that have been designated as "subject poles". For poles within the CAL FIRE jurisdiction that bear "non-exempt" attachments, such as a transformer or hot line clamp, AEC is required to perform "pole brushing", that is, clearing all vegetation within a ten-foot radius of the pole in accordance with General Order 95, rule 35 and California Public Resources Code (PRC) 4292 with a goal of 95-100% completion annually. To further reduce potential ignition sources, AEC's Operations Department stays vigilant and seeks to reduce the number of non-exempt power line components by replacing such equipment, where feasible, with exempt equipment, which should also reduce the potential for pole attachments to become an ignition source.

Special Case – San Bernardino National Forest

The San Bernardino National Forest Master Special Use Permit (MSUP) and Permit to Construct (PTC) for Power Line Replacement Projects. AEC currently operates and maintains a network of electric facilities located within the San Bernardino National Forest (SBNF). AEC has applied for a renewal of its permit to operate and maintain facilities within SBNF and is operating under an approved provisional permit. The construction and maintenance permit allows AEC to develop a series of projects and activities aimed at increasing safety and reliability of existing electric facilities within and near the SBNF. Final approval of the permit is expected to happen in 2020 after review by US Fish and Wildlife Service.

The current provisional permit has a section on wildfire protection and includes best management practices (BMP's) 56 through 58 that address this. They state as follows:

#56; Working in collaboration with the USFS, the applicant will assist USFS in identifying a fire prevention and suppression plan, which shall be reviewed, modified, and approved, as appropriate, by the authorized officer (of the USFS). The applicant shall take into account such measures for prevention and suppression of fire on the right-of-way and other public land used or traversed by the applicant in connection with operations of the right-of-way. Project personnel shall be instructed as to individual responsibility in implementation of the plan.

#57; During construction, operation, maintenance, and termination of the right-of-way, during the period of July 1 to Sept. 15, vehicles, gas powered equipment, and fuels shall be equipped with spark arresters approved by the authorized officer.

#58; The applicant shall maintain a fire watch with fire-fighting equipment during construction as required by the authorized officer. When requested by the authorized officer, the applicant shall make his equipment already at the site of the operators, temporarily available for fighting fires in the vicinity of the project. Payment for such services will be made at rates determined by the authorized officer.

E. INSPECTIONS

AEC meets or exceeds the minimum inspection requirements provided in CPUC GO 165 and CPUC GO 95, Rule 18. Pursuant to these rules, AEC inspects electric facilities as follows:

- "Patrol inspections" - a simple visual inspection, of applicable utility equipment and structures, that is designed to identify obvious structural problems and hazards. Patrol inspections are carried out in the course of other AEC business. All poles are visually inspected at minimum, annually.
- "Detailed" - one where individual pieces of equipment and structures are carefully examined, visually and through use of routine diagnostic test, as appropriate, and (if practical and if useful information can be so gathered) opened, and the condition of each rated and recorded. Detailed inspections are performed throughout the system on a rotating cycle every three years. In areas that are in the fire threat District 3 and certain areas of District 2 that are deemed to be of greater fire risk threat, detailed inspections may occur more frequently.
- "Intrusive" - involving movement of soil, taking samples for analysis, and/or using more sophisticated diagnostic tools beyond visual inspections or instrument reading are conducted every 5 years. In areas of the system in fire threat District 3 and higher fire risk areas of District 2, intrusive inspections may occur more frequently depending on the age of the facilities.

Additionally, AEC 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.

AEC has implemented more stringent monitoring and inspection programs in the District 2 and District 3, which will intensify our efforts to identify potential substandard system facilities and elements. As an example of these efforts, AEC has executed the use of pole-loading algorithms with computer software programs which more accurately calculate working loads and stresses. In addition, AEC will coordinate these activities with communications infrastructure providers which jointly use AEC's poles and facilities once the software has been implemented system wide and personnel are fully trained on its usage.

AEC is in the process of developing an outage database which will be used for reliability measurement and reporting purposes. Correlations between outages and locations will be analyzed to determine whether certain equipment is prone to outage or has the potential to be an ignition source. This analysis will then be matched to weather and other environmental conditions. Where it is determined that certain types of hardware have higher incidents of failure and potentially a higher incidence rate for ignition, they will be replaced or prioritized for replacement. Outages related to trees and or vegetation are currently investigated, documented, and results analyzed to determine if additional pruning or removal measures are warranted to prevent any reoccurrence.

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

AEC works to ensure that all inspections to be performed within the High Fire Threat Districts are completed before the beginning of the historic fire season, typically September 1. AEC monitors drought conditions and other relevant factors throughout the year to determine if inspections should be completed on a shorter timeframe.

AEC maintains a database of vegetation and other obstacles or trouble spots near AEC's facilities which is updated on an annual basis.

F. WORKFORCE TRAINING

AEC believes that an important line of defense against the ignition of fires is a well-trained and alert workforce. Internally, AEC has created a culture of fire prevention. To that end, AEC is developing an extensive set of work rules and complementary training programs designed to

minimize the likelihood that AEC's facilities or field work be the source of ignition for a fire. Management has taken a proactive role in ensuring that all employees are aware of fire threat weather conditions, and requires that all employees immediately report and document any suspicious activities witnessed in the field, immediately report and document knowledge of any fires within AEC's service territory, and are required to document all known information related to any fire within the AEC service territory regardless of the cause. Additionally, management is developing a training program for employees that will incorporate regulatory changes, weather updates, situational awareness, and partnerships with cooperating agencies.

G. RECLOSER POLICY

As part of its commitment to providing safe and reliable utility services to our membership AEC has begun replacement of older oil circuit reclosers (OCR's) with single-phase solid-state vacuum reclosers focusing heavily on the District 2 and District 3. This equipment will allow AEC quicker reaction times during reclosing operations and be able to sectionalize various elements of our distribution system to better manage system operations and reliability. These reclosers and other Supervisory Controlled and Data Acquisition ("SCADA") controlled reclosers are managed remotely by AEC's Distribution System Operators. In addition, AEC will implement more sensitive relay settings to all SCADA reclosers in the District 3. These sensitive relay settings will provide very fast clearing of faults on distribution circuits and are capable of being remotely operated via SCADA, allowing for real-time adjustments triggered by adverse weather conditions.

H. DEENERGIZATION

AEC has the authority to preemptively shut off power due to fire-threat conditions, however, this option will only be used in extraordinary circumstances. AEC 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 AEC circuits;
- AEC 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 local 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 AEC 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

AEC recognizes the impacts associated with system outages, therefore, before de-energizing, AEC also looks at other operational restrictions and considerations that can be put in place to minimize potential wildfire ignitions. De-energization only occurs when it is deemed necessary, based on the above factors, in order to protect public safety.

Public safety impacts resulting from a de-energizing event include:

- Loss of water – all residential and commercial services rely on wells for water
- Disruption in communications from local cellular carrier and telecommunications
- Loss of power can lead to medical emergencies for members of the community requiring powered medical equipment or refrigerated medication. Additionally, lack of air conditioning can negatively impact medically vulnerable populations.
- Traffic congestion resulting from the public evacuating de-energized areas can lengthen response times for first responders.
- Negative impacts from local businesses forced to close during the shutdown.
- Inability to open garage doors and electric gates during a wildfire event can lead to injuries and fatalities.

2. CUSTOMER NOTIFICATION PROTOCOLS

AEC plans to begin notifying members approximately 48 hours in advance of a potential PSPS event and will attempt to notify members approximately 24 hours before power is shut off. Additional notifications will be made throughout the outage, when power has been shut off and

when it has been restored. There may be situations which prevent AEC from providing advance notice. The actual onset of extreme weather conditions and other circumstances beyond our control may impact coordination and notification efforts.

Notification may occur via a combination of phone calls, member messaging, anzaelectric.org, and social media.

VI. COMMUNITY OUTREACH AND PUBLIC AWARENESS

AEC has created a multi-level approach to community education and outreach as our contribution to public awareness of fire threats, fire prevention and emergency preparedness. The key elements of this approach are described below.

Fire Safety Communication

AEC provides regular communications to residents and businesses located within our service territory. These fire-safety and emergency communications include, but are not limited to;

- Member education events, emergency preparedness symposiums for businesses, public participation meetings, and backup generator safety workshops;
- Informational and emergency preparedness mailings;
- Educational advertising campaigns focusing on AEC preparations for the fire season and the preparations AEC's members should make for emergencies;
- Educational information disseminated through the *Currents* magazine;
- Distribution of informational pamphlets, which provides formatted emergency information that easily folds and fits in an automobile glove box or emergency kit;
- Distribution of "refrigerator magnets" bearing important emergency information;
- The provision of weather information and system-outage status via the AEC Facebook page, website, and member messaging system;
- Dissemination of information regarding emergency-preparedness events via social media, such as Facebook;
- Website campaign offering members access to safety checklists and fire-safety videos.

In addition to routine outreach and communications, AEC intensifies its effort to communicate with members when fire-threat conditions are elevated or extreme. AEC has instituted an early warning system advising members that a Red Flag Warning has been declared by the National Weather Service and dangerously high winds are expected. This early warning system consists of our member messaging system, website and Facebook updates, and public service

announcements on KOYT 97.1. When the conditions are present in which AEC is likely to deenergize lines, AEC will consider the need as a priority, to notify critical first responders, health care facilities, and operators of telecommunications infrastructure.

As alert conditions are elevated, AEC also directly contacts our life support members. Under emergency situations in which AEC is experiencing a system wide outage and cannot contact these members, AEC will send field personnel or other available resources to make personal contact.

Additionally, as part of this Wildfire Mitigation Plan, AEC is currently assessing the risks to the health and welfare of members who may lose power, including the impact on water supply resulting from deenergizing power lines and will update this plan accordingly.

Partnering with Firefighting Agencies

AEC is developing a partnership with the local fire stations, CAL FIRE and other organizations to address a range of fire prevention and emergency activities. The outcome of these partnerships will be reported in future revisions of the AEC FMP and suggestions from these agencies will also be incorporated.

Community Partnerships

In 2017, AEC began discussions with the Riverside County Emergency Management Department to develop a program that will prepare our members for the threat of wildfire and other natural disasters, and community leaders were invited to participate in a fire safety collaboration process. This program includes public meetings in which information related to fire safety, disaster preparedness, and county resources is presented. AEC will also reach out to our other stakeholders representing local schools, water districts, Tribal Authorities, and fire departments - to develop a joint fire communication plan. During May 2019, staff met with the Ramona Tribe to discuss Wildfire Mitigation Plans and exchange information. As a result, AEC obtained a copy of the Ramona Band of Cahuilla Indian's Multi-hazard Mitigation Plan. A copy of this plan is included in Appendix B. As our joint communication plan is developed, the AEC Wildfire Mitigation Plan will be updated accordingly.

VII. RESTORATION OF SERVICE

Once the extreme fire threat conditions subside and it is safe to do so, AEC crews will begin patrolling power lines, repairing damaged equipment and restoring power to impacted

members. AEC will provide condition updates and reasonable notice for the restoration of power.

VIII. EVALUATING OF THE PLAN

A. METRICS AND ASSUMPTIONS FOR MEASURING PLAN PERFORMANCE

AEC's data collection requirements specify responsibilities and accountability for compliance with this plan;

- Compliance Management: As part of their annual calendar, the Operations Manager and Government Relations Liaison will track and ensure that this reporting requirement to the SED is met in the required timeframe if/when it becomes a required.
- Claims, Legal, & Regulatory: Will continue their role and responsibilities for fires related to AEC facilities as well as review the annual report prior to submission as required.
- Electric Operations and System Construction Maintenance: Operations Management and line personnel will understand what denotes a reportable fire and assist in ensuring qualifying fires are reported to the General Manager and Government Relations Liaison.
- Training: An initial training and annual refresher training will be developed by the Operations Manager and will be provided to all field personnel to ensure compliance with these requirements.
- Root Cause Analysis: The data collected will continue to be shared internally for further root cause analysis to help determine fire mitigation measures that make sense to implement in the future.

AEC will track two metrics to measure the performance of this Wildfire Mitigation Plan: (1) number of fire ignitions; and (2) wires down within the service territory

METRIC 1: FIRE IGNITIONS

At the end of emergency events, AEC conducts a debrief and prepares an after-action report that identifies action items to correct or improve future responses. AEC will invoke the actions in its ERP as outlined above.

For purposes of this metric, a fire ignition is defined as follows:

- AEC facility was associated with the fire;

- The fire was self-propagating and of a material other than electrical and/or communication facilities;
- The resulting fire traveled greater than one linear meter from the ignition point; and
- AEC has knowledge that the fire occurred.

In future Wildfire Mitigation Plans, AEC will provide the number of fires that occurred that were less than 10 acres in size. Any fires greater than 10 acres will be individually described.

METRIC 2: WIRES DOWN

The second metric is the number of distribution and transmission wires downed within AEC's service territory. For purposes of this metric, a wires down event includes any instance where an electric transmission or primary distribution conductor falls to the ground or on to a foreign object. AEC will divide the wires down metric between wires down inside and outside of the High Fire Threat District.

AEC will not normalize this metric by excluding unusual events, such as severe storms. Instead, AEC will supplement this metric with a qualitative description of any such unusual events.

B. IMPACT OF METRICS ON PLAN

For both metrics AEC proposes to use its District 2 and District 3 zones as the area of applicability.

AEC assumes that the primary purpose of the these metrics is to provide longer term feedback on the efficacy of AEC's fire preventative strategies and programs focused on electric facilities. AEC notes that similar metrics are used for other purposes, e.g. wires down is used in monitoring electric reliability. In other cases, this metric is monitored with "exclusions" in order to normalize unusual events such as extreme weather. However, for fire purposes, AEC assumes that such metrics should include (rather than exclude) such events and intends to monitor all wires down for fire prevention purposes, rather than only wires down during normal weather.

AEC also assumes that the metrics noted here should focus on the highest risk fire areas (i.e., the District 2 and District 3), rather than including the entire service territory unless otherwise required.

AEC anticipates that there will be relatively limited data gathered through these metrics, particularly in the initial years. Therefore, it will be difficult to draw meaningful conclusions

based on this data. AEC will evaluate modifying these metrics or adding additional metrics in future years.

C. MONITORING AND AUDITING THE PLAN

This Wildfire Mitigation Plan is subject to review by AEC's Governing Board. AEC will present this plan to its Governing Board on an annual basis. Additionally, a qualified independent evaluator will present a report on this plan to the AEC Governing Board.

D. IDENTIFYING AND CORRECTING DEFICIENCIES IN THE PLAN

Following the recent wildfires of 2017, AEC has been reviewing, developing, expanding and refining the Wildfire Mitigation Plan and Emergency Response Plan (ERP). The goal of these plans is to provide mature and comprehensive programs that improves power line safety, increases reliability and helps to keep AEC's membership prepared in the event of an overall emergency. As part of the Wild Fire Mitigation Plan, AEC has made significant enhancements in system design, weather analysis and prediction, operational changes and outage prediction, supplemental inspection and maintenance practices, active vegetation management, and created fire models to allow AEC to move where the risk is the greatest and be able to predict where fire may travel in the event of an active fire situation. These programs and best practices are all as described in this Wildfire Mitigation Prevention Plan.

Despite all the efforts AEC might take in designing, redesigning, improving, replacing, and fire-hardening various elements of its overhead electric system, there will be some remaining potential risk that AEC's facilities might be the source of ignition for a fire. To address these risks, AEC has designed and implemented a number of operations, maintenance and inspection programs directly addressing fire prevention and the mitigation of effects from fires.

System Management: Quality Assurance and Quality Control

AEC is in the process of enhancing its system-management programs to assure that, to the extent possible, AEC's overhead system, facilities and equipment are unlikely to become the source of ignition for a fire. These programs generally encompass inspection and maintenance functions and have been modified to focus on minimizing the probability that damaged or aging facilities will provide the ignition source for a fire. Inspection and repair of the AEC distribution systems have particularly intensified in the District 2 and District 3.

In addition, AEC has implemented Quality Assurance and Quality Control standards and programs throughout its service territory, with a special focus in the District 3 during fire

season. These proactive programs are designed to identify potential structural and mechanical problems before they fail. Distribution facilities within both Districts are currently inspected intrusively on a five-year cycle and corrections are attempted in the same year before fire season begins. Where the facility in need of repair is owned by a party other than AEC, e.g., by a communication infrastructure provider, AEC will issue a notice to repair to the facility owner and work with the facility owner to ensure necessary repairs are completed promptly. AEC's operational goal, subject to permitting requirements and other exigencies and conditions, is to complete all facility and equipment repairs on an annual basis.

Annual adjustments to the High-Fire Threat map, if any, will be reflected in the scope of the Quality Assurance and Quality Control program.

Last, AEC closely monitors cost effective emerging technologies, legislative and regulatory changes, and evaluates the effectiveness of the plan following each PSPS or wildfire event to ensure best practices are utilized for the safety of staff, our facilities, our members, and our community.

E. MONITORING THE EFFECTIVENESS OF INSPECTIONS

AEC routinely coordinates and monitors the effectiveness of inspections with Operations staff, our vegetation and tree trimming contractors, and any company that AEC has contracted with for pole inspections to ensure that all system inspections are completed in a timely manner and meets or exceeds the requirements established by law. Any deficiencies identified through this process are addressed prior to the start of the fire season for the next year.

IX. INDEPENDENT EVALUATION

Public Utilities Code section 8387(c) requires AEC to contract with a qualified independent evaluator with experience in assessing the safe operation of electrical infrastructure to review and assess the comprehensiveness of this Wildfire Mitigation Plan. The independent evaluator must issue a report that is posted to AEC's website. This report must also be presented to AEC's Governing Board at a public meeting.

AEC will seek a minimum of three proposal bids from highly recommended organizations to perform an independent evaluation of our Wildfire Mitigation Plan. Based on the proposal bids received, AEC will contract with the organization that best meets the needs of the Cooperative.