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EPUD WILDFIRE MITIGATION PLAN UPDATE 2025

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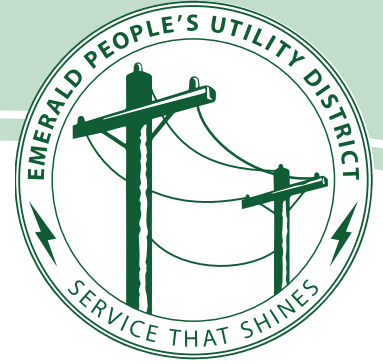
WILDFIRE MITIGATION & RESPONSE PLAN

Emerald PUD's Wildfire Mitigation & Response Plan

Adopted by Board of Directors on June 18, 2024

Updated on May 13, 2025





Wildfire Mitigation & Response Plan

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1. INTRODUCTION

Oregon's 2020 wildfire season was one of the most destructive in the state's history. For Emerald People's Utility District (the "District"), the worst impacts of the 2020 fire season began on Labor Day weekend when the District's service territory was affected by a red flag warning. Historically, red flag warnings are rare for Lane County. In addition, for the first time, a portion of the District's service territory was placed under a Level 3 evacuation order. The District took this and other factors into consideration and proactively de-energized a portion of its service territory. As a result of increasing wildfire risks, occurrences like this are likely to become more common and the District must plan accordingly.

The District's mission is to provide safe, reliable, low-cost power in an environmentally responsible manner. To meet this goal, the District must construct, operate, and maintain its electric facilities in accordance with applicable laws and in a manner that minimizes wildfire risks.

1.1 Purpose

The goal of this Wildfire Mitigation Plan ("Plan") is to support and enhance public safety and mitigate the threat of wildfires ignited by electrical equipment in the District's service area. The Plan identifies potential risks of ignition from the District's facilities, assesses those risks, and adopts mitigation strategies to minimize the risk of igniting a wildfire. The Plan also covers strategies to respond to wildfires, regardless of the cause, that include enhanced situational awareness and operational readiness.

2. UTILITY PROFILE

The District is one of six distribution utilities in the greater Eugene/Springfield area in Lane County, Oregon. The District provides power to about 23,000 customers located in approximately 560 square miles which are broken into two geographically isolated regions. The District has one main site that serves as its main office, shop, and warehouse. The District has eight substations in Lane County (seven of which directly provide power to retail customers), 20 miles of transmission lines,¹ 800 miles of overhead distribution lines, and 370 miles of underground distribution lines. There are many areas where the District's overhead distribution facilities are in the same area – or even on the same poles – as facilities belonging to other utilities.² The District also has a generator site at the Short Mountain landfill.

The operational response procedures developed as part of this Plan are based on geographic areas within the District's service area and within a reasonable distance of the District's facilities. These areas include:

¹ Bonneville Power Administration and/or PacifiCorp provide transmission service to seven of the District's eight substations in Lane County.

² The proximity of facilities belonging to other utilities is a factor considered in some of the response strategies. In addition to transmission lines belonging to BPA and PacifiCorp, there are also distribution lines belonging to PacifiCorp, Blachly-Lane Electric Cooperative, Lane Electric Cooperative, Eugene Water and Electric Board, and Springfield Utility Board.

- Fire Weather Zones
- Evacuation Zones
- Fires and Hotspot Dashboard Data

2.1 Fire Weather Zones

The state of Oregon is divided into a number of Fire Weather Zones. When weather conditions in a zone present elevated risks that may lead to the uncontrolled spread of wildfires, the National Oceanic and Atmospheric Administration (“NOAA”) issues a Red Flag Warning for that zone. The District’s service area is located in zones 683, 685, 687, and 616. The District has established operational response procedures that can be enacted if and when the NOAA issues Red Flag Warnings for the District’s service area and surrounding areas.

2.2 Evacuation Zones

When wildfires or other emergencies occur, state and local agencies activate emergency response teams. One of the key functions of these teams is to assess and monitor hazardous conditions and issue evacuation orders. The evacuation orders identify the impacted area(s) and assign an evacuation level. While fire weather zones are well defined and static, evacuation zones are created as needed during emergencies and may arise with little or no notice. The District closely monitors regional evacuation orders and links the boundary and evacuation level to the District GIS System of Record.³ The evacuation zones are considered a part of the District’s operational response to emergencies.

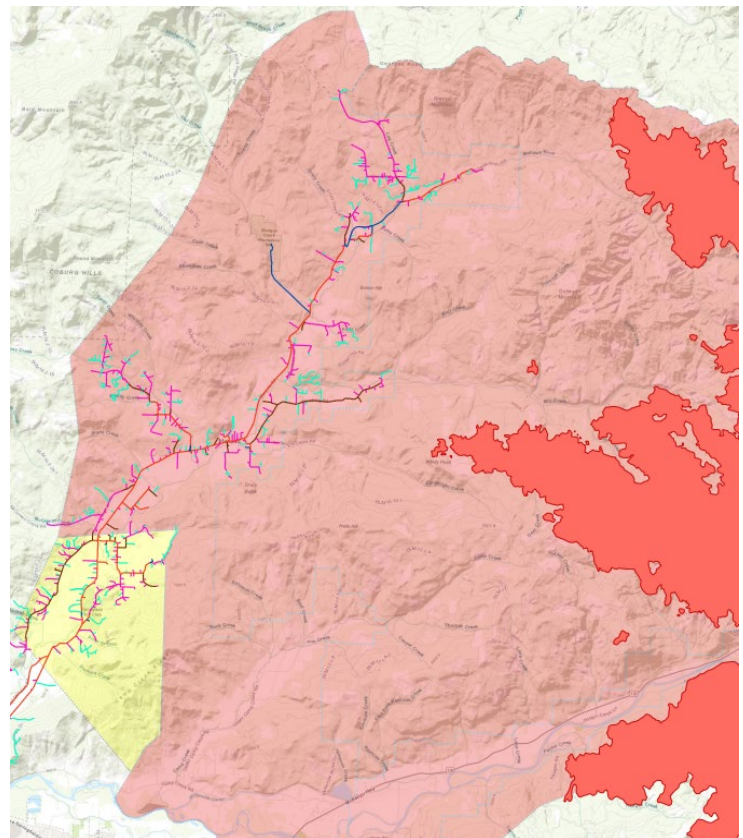


Figure 1 - Map of Mohawk Valley during Labor Day 2020 evacuations.

Legend:

- Extent of known fire
- Extent of Level 3 evacuation
- Extent of Level 2 evacuation

³The GIS System of Record is a geographical representation of a database that contains information on all of the District’s facilities in the field. The District links external information, such as evacuation zones and active fire areas, published by outside agencies (e.g., the Oregon Department of Forestry), providing a geographical representation of present conditions along with the District’s facilities.

2.3 Fires and Hotspot Dashboard

The state of Oregon maintains the Fires and Hotspots Dashboard, a website that shows the size and location of active wildfires.⁴ The District links data from the Fires and Hotspots Dashboard to the district GIS System of Record. The District reviews and uses this information as a critical component of its operational response to emergencies. The District's electric facilities cross the boundaries of fire weather zones. The District's electric facilities are also likely to cross boundaries of evacuation zones as they are created and adjusted during a wildfire event. Therefore, it is unlikely that there will be an isolation point (e.g., recloser, switch, fuse) at a weather zone or evacuation zone boundary. As a result, operational responses will likely affect District energy facilities and customers in areas beyond just the area of immediate concern.

3. IGNITION RISK IDENTIFICATION AND MITIGATION STRATEGIES

The District identified six potential categories of causes of power line related sparks and ignitions:

- Vegetation and Wildlife
- Human Caused
- Wire to Wire Contact
- Electrical Equipment Failure
- Other Causes
- Protection Equipment Operation

3.1 Vegetation and Wildlife

The District has an in-house group that performs vegetation management. This group includes a supervisor and several crews dedicated to maintaining adequate clearances between vegetation and District overhead distribution and transmission facilities. The District's crews perform vegetation management practices in compliance with all applicable state and federal clearance requirements, including OAR 860-024-0016 and 0017. The crews also perform visual inspections of the District's rights-of-way to identify and remove: (a) hazard trees that are in imminent danger of falling into the District's facilities; and (b) high-risk fuel sources, such as straw that may impact certain circuits and gather at poles from time to time. The district performs inspections and vegetation trimming and removal year-round and covers its entire system on a regular cycle.

The District has implemented measures to decrease the likelihood of contact between energized equipment and wildlife. To minimize the risks presented by these types of contacts, the District includes wildlife guards when installing new electrical equipment such as transformers, capacitors, and reclosers. In addition, as linemen respond to outages that involve wildlife, guards are retrofitted onto existing equipment. Furthermore, in areas that are known to have raptors or other birds of prey, the District constructs its facilities with increased spacing to minimize the risk to raptors or birds of prey from contact with energized equipment.

⁴ The State of Oregon's interactive map of active wildfires is available at <https://www.oregon.gov/odf/fire/pages/firestats.aspx>

3.2 Human Caused

There are many ignition risks from human activity. For example, the District from time to time responds to accidents involving a vehicle hitting a pole or snagging an overhead line (often communication), which can damage adjacent poles, or cause wires to contact each other as a result of the shock. The resulting sparks can be a source of ignition. In addition to vehicle involved accidents, there can be other hazardous conditions such as equipment (e.g., irrigation pipe, ladders, well drillers, etc.) or flying objects (e.g., balloons, kites, drones, etc.) contacting electric lines. The District regularly reaches out to the public about the risk of contact with overhead lines.

3.3 Wire to Wire Contact

In certain situations, it is possible for adjacent overhead wires to make contact with each other part-way between two poles. When wires contact each other, there may be an immediate flash and sparks can drop to the ground. This can be caused by a number of events, including:

- A physical shock to a structure, such as when a car strikes a pole
- Something mechanically forcing one wire into another, such as a goose or turkey hitting a wire
- Adjacent wires being electromagnetically attracted to each other during certain types of faults

After any of these types of events have occurred, the electric facilities in the area are analyzed and, when appropriate, remedial actions are taken. These can include insetting poles, adding spacers between wires, and re-sagging wire.

3.4 Electrical Equipment Failure

The District performs regular safety inspections to reduce the risk of electrical equipment failure. In conjunction with its pole inspection and treatment program, the District conducts detailed inspection of its wires, poles, and attached equipment on a ten-year cycle to assess the condition of the District's equipment. The District will remedy unsafe conditions or defects that could adversely impact reliability or result in failures which are identified during such inspections.

3.5 Other Causes

There are other possible sources of ignition with the District's electric facilities, including vandalism. The District's facilities and ground wires are sometimes cut and removed from District poles and substations.

In addition to the District's electric facilities being a potential source of ignition, its vehicles and tools can be sources of sparks or fire ignition. The District monitors notifications from the Oregon Department of Forestry as fire restrictions are instituted or modified for the two Fire Protection Districts where the District's crews normally work (West Lane, East Lane). As conditions warrant, the District adjusts the work practices of the crews to reduce the risk of ignition. This includes using a fire suppression vehicle at certain job sites, keeping vehicles on roadways (and off of dried grass), measuring the relative humidity at job sites, not using gas powered chain saws, adjusting work schedules to earlier in the day, and providing a fire safety watch after work at a site is complete.

3.6 Protection Equipment Operation

Fuses and reclosers play a significant role in safeguarding the public and protecting the District's electrical equipment from faults that occur on its distribution system by opening when a fault occurs to remove the voltage from the fault and stop the electric current from flowing. The District has replaced many fuse installations on main lines with reclosers and is continuing to evaluate reclosers at additional locations. Reclosers provide two advantages over fuses. First, reclosers can react more quickly to faults than fuses, limiting the amount of energy that is released into the fault and decreasing the risk of damaging equipment or causing a fire. Second, when there is communication available, the operation of a recloser can be remotely modified to increase sensitivity to faults or opened to isolate facilities in areas at elevated risk of wildfire.

4. OPERATIONAL RESPONSE ACTIVITIES

4.1 Wildfire Crisis Team (WCT)

Multiple departments within the District collaborate to gather and share information regarding a wildfire or potential wildfire situation. When an event occurs, such as extreme weather, that may cause a wildfire, the District's Wildfire Crisis Team (WCT) will determine a plan of action. The WCT members include:

- A. General Manager
- B. Operations Manager
- C. System Engineer
- D. Customer Service Manager
- E. Other designated personnel as appropriate

The WCT determines whether and when to implement wildfire response activities and communication protocols. The WCT will consider the external risks and potential consequences of any such actions before implementing its plans.

4.2 Communications

Once the National Weather Service has issued an extreme weather event, the WCT will determine the appropriate message to distribute to customers and the public. The message will be distributed via one or more of the following channels:

- County Emergency Management agencies
- News media
- Email
- Social media outlets
- Mass phone calls (IVR system)
- District's Website
- Customer Service Representative (CSR) talking points
- Direct contact with Key Accounts affected

4.3 Situational Awareness

As described below, the District monitors multiple news, weather and emergency management sources to ensure that it is aware of the level of risk of wildfire and the status of active wildfires in the District's service territory and surrounding areas.

- During wildfire season, the Oregon Department of Forestry Public Fire Restrictions issues a daily fire level status. These notifications are emailed directly to the Operations and Right of Way Supervisors. Right of Way crews carry firefighting equipment, water, hydraulic chain saws, and handheld weather monitoring stations.
- The NOAA National Weather Service issues alerts when conditions are excessively dry or windy. When conditions meet established criteria, the NOAA issues Red Flag Warnings.
- In the event a wildfire ignites, the District will attempt to link data published by Oregon Department of Forestry to the District GIS System of Record. Once linked, the data will be updated in real time on the District GIS System of Record. The data shows both the location and level (e.g., 1, 2, 3) of Fire Evacuation Zones. The extent of known fires can also be displayed and updated on the District GIS System of Record.
- When agencies respond to a wildfire in the area and establish command posts, the District assigns a liaison and establishes communication with the appropriate agencies.

4.4 System Operation Adjustments for Wildfire

The District uses relay-controlled breakers and reclosers in conjunction with fuses to provide protection against faults that occur on its system. The protection system has two basic goals:

- For temporary faults: Allow them to clear without causing a sustained outage to customers.
- For permanent faults: Quickly clear the fault, thereby limiting the risk of exposure of the public to possibly unsafe conditions and minimizing the number of customers affected by a sustained outage.

The relays for breakers and reclosers are programmed to open and close at most three times (reclosing) to allow temporary faults to clear before opening and remaining open (lock out) when the fault is permanent. An important aspect about the way the system functions is that relays are set so that they allow fuses to operate to clear permanent faults that are further downstream. This protection scheme is referred to as coordination and minimizes the number of people that experience a sustained outage when a fault occurs by allowing the nearest upstream device to operate and de-energize power to just the area with the fault. It also minimizes the area that needs to be inspected for additional faults prior to restoring power, which helps reduce the time required to restore power. Using this equipment, the District can adapt its system operating settings in response to the risk of wildfires in its service area. A summary of potential system operating modes is shown below.

System Operating Modes

Normal	Reclosing is normal; protection settings are normal.
Guarded	Reclosing is disabled on relays while coordination is maintained.
High Alert	Relay settings are modified to increase sensitivity (at the expense of coordination)
Severe	Power lines are de-energized (Public Safety Power Shutoff)

The decision to implement these different system operating modes is made by the District on a case-by-case basis based on an analysis of external risks and conditions and potential consequences associated with customers losing power.⁵

4.5 Red Flag Warning Response

The District's response for the duration of a Red Flag Warning issued for any of the fire weather zones is to consider disabling reclosing on equipment that provides power to the affected zone(s).⁶ While this can result in sustained outages for temporary faults, it will maintain coordination so that the device closest to the fault will operate, thereby minimizing the number of customers affected by the outage and the amount of time required to restore power. The WCT will continue to monitor conditions and can quickly react, including modifying the operation or sensitivity of relays.

4.6 Public Safety Power Shut Off ("PSPS")

A PSPS preemptively de-energizes power lines during high wind events that occur during hot and dry weather conditions. The District utilizes PSPS as a last response in mitigation strategies during red flag warnings or other extreme conditions. When feasible, the District will consult with the appropriate emergency services, including law enforcement and/or fire departments, to determine the necessity, location, duration, and timeline of a PSPS activation. The WCT will evaluate conditions and will determine when it is safe to begin the process of re-energizing its facilities.

When considering a PSPS, the District will examine external risks and conditions and potential consequences of a PSPS, including:

- Potential loss of water supply to fight wildfires due to loss of production wells and pumping facilities.
- Negative impacts to emergency response and public safety due to disruptions of internet service, and communication and phone service during extended power outages.
- Loss of key community infrastructure and operational efficiency that occurs during power outages.
- Medical emergencies for members of the community requiring powered medical equipment or refrigerated medication. Additionally, the lack of air conditioning can negatively impact medically vulnerable populations, especially if air quality is poor.
- Negative impacts on medical facilities.
- Traffic congestion resulting from the public evacuation in de-energized areas potentially lengthening response times for emergency responders.
- The inability to open garage doors or motorized gates during a wildfire event potentially leading to injuries and fatalities due to slow evacuations.

⁵The external risks of customers losing power are discussed in detail in relation to Public Safety Power Shut Offs. Modifying reclosing on relays and modifying relay settings to increase sensitivity can affect the number and duration of outages and, therefore, implicate many of the same concerns as a Public Safety Power Shut Off.

⁶ Note that isolation points on the District's distribution system are not always at the boundary between zones. As a result, customers in one fire weather zone may be impacted by a warning issued for an adjacent fire weather zone.

The risks and potential consequences of initiating a PSPS are significant and the decision to initiate a PSPS is extremely complex. Based on the above considerations, the District reserves the option of implementing a PSPS when conditions dictate in its sole discretion. While the District generally believes the risks of implementing a PSPS outweigh the chances of its electric overhead distribution system igniting a catastrophic wildfire, the PSPS provides a valuable tool of last resort in a crisis.

On a case-by-case basis, the District will consider de-energizing a portion of its system in response to a known public safety issue or a request from an outside emergency management/response agency. The decision to implement a PSPS is based on multiple considerations including a detailed understanding of the District's electric system. No single element is determinative. Potential factors include:

- Imminent fire danger
- Extreme weather conditions
- Red flag warnings
- Mandatory fire orders in effect
- On-the-ground observations from the District's or other agency field staff
- Active wildfire in or near the service area
- Local topography

The District will, to the extent possible, coordinate PSPS plans with outside agencies and will distribute a PSPS notification to the public through one or more of the following means: District social media, text messages, email, radio, and the District website. The District will provide additional updates and information to the public as necessary and will communicate that the PSPS has ended using the same channels by which information was initially distributed.

The District will monitor the evolution of PSPS implementation by other Oregon electric utilities to continue to refine its evaluation criteria and processes.

4.7 Evacuation Orders

The District will evaluate its response to an evacuation order on a case-by-case basis and the appropriate response may depend on the cause of the evacuation. In the event that the District's main facility is under evacuation orders, it will make every effort to move all personnel to remote operations and relocate rolling stock and emergency materials to an alternate location.

4.8 Summary of District Response Activities

The District’s response activities are summarized in Figure 2. This is intended as a general guide and actual actions taken at each level will be determined by the Wildfire Crisis Team based on specific conditions.

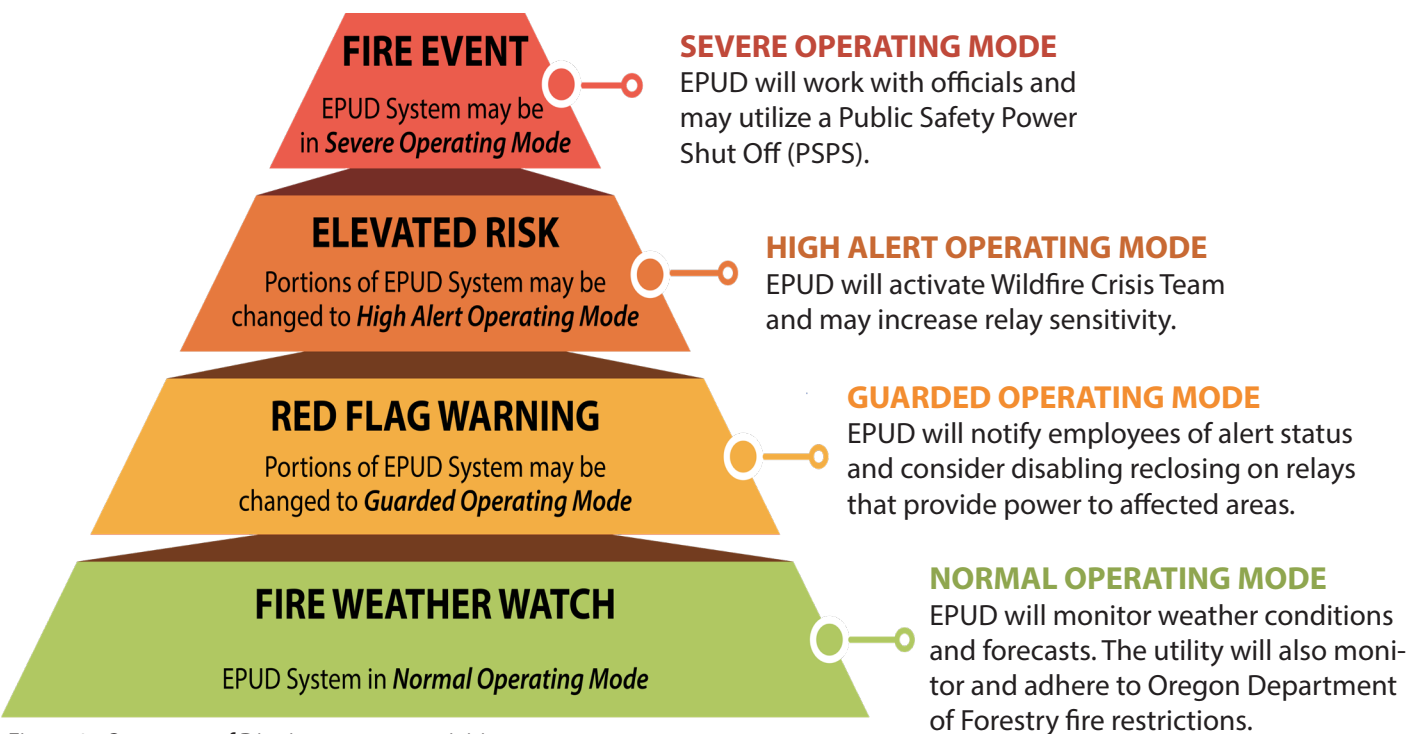


Figure 2 - Summary of District response activities

5. Conclusion

This Plan is intended to help mitigate the risk of wildfires and is subject to review and approval by the District Board of Directors. The District will monitor the effectiveness of the Plan, as well as changes to regulations and new information from industry and trade groups, and evaluate potential changes that may improve the Plan. The District’s staff will recommend changes, if any, in the form of an updated Plan presented to the Board for review and approval.

Emerald People's Utility District
Resolution No. 2024-18

Adopting Updates to the District's Wildfire Mitigation Plan

WHEREAS, the Board of Directors (the Board) of Emerald People's Utility District (District) in accordance with the Board Policy Manual, Section 1140, shall formulate and adopt Resolutions and Ordinances to exercise its role as the legislative body of the District; and

WHEREAS, in 2021 the Oregon legislature passed Senate Bill 762 in response to severe wildfire risk throughout the state; and

WHEREAS, Senate Bill 762 requires Oregon's consumer owned utilities to "have and operate in compliance with a risk-based wildfire mitigation plan approved by the governing body of the utility"; and

WHEREAS, on May 17, 2022 the Board passed the District's original Wildfire Mitigation and Response Plan in compliance with the requirements of Senate Bill 762 and this Plan was last updated in April 25, 2023; and

WHEREAS, the District's staff has proposed a new set of updates to this plan to reflect new fire weather zones and minor formatting changes;

NOW, THEREFORE, BE IT RESOLVED AND ENACTED BY THE BOARD OF DIRECTORS OF EMERALD PEOPLE'S UTILITY DISTRICT:

1. The District adopts the attached Wildfire Mitigation and Response Plan. District staff shall operate under the guidelines laid out in this Plan and provide periodic updates to the Board regarding the activities described therein. The Plan shall be reviewed by District staff at least annually and proposed changes shall be brought to the Board as needed.
2. The updated Wildfire Mitigation and Response Plan shall be submitted to the State of Oregon.

ADOPTED by the Board of Directors on June 18, 2024.

By: _____

Charles Kimball
President, Board of Directors

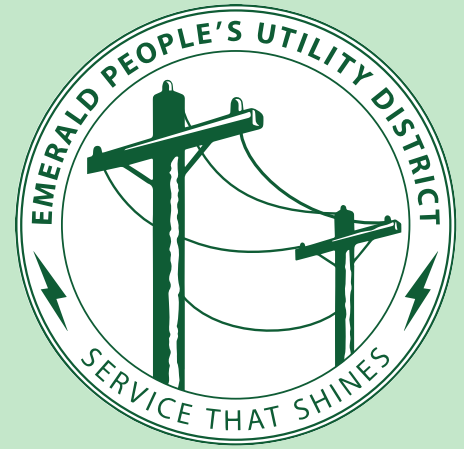
ATTEST:

Wendi McKay

Votes of the Directors:	Yes	No	Abstain
Chappel	☒	☐	☐
Davis	☒	☐	☐
Kimball	☒	☐	☐
Offenbacher	☒	☐	☐
Parker	☒	☐	☐

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Emerald People's Utility District
Resolution No. 2025-16

Adopting Updates to the District's Wildfire Mitigation Plan

WHEREAS, the Board of Directors (the Board) of Emerald People's Utility District (District) in accordance with the Board Policy Manual, Section 1140, shall formulate and adopt Resolutions and Ordinances to exercise its role as the legislative body of the District; and

WHEREAS, in 2021 the Oregon legislature passed Senate Bill 762 in response to severe wildfire risk throughout the state; and

WHEREAS, Senate Bill 762 requires Oregon's consumer owned utilities to "have and operate in compliance with a risk-based wildfire mitigation plan approved by the governing body of the utility"; and

WHEREAS, on May 17, 2022 the Board passed the District's original Wildfire Mitigation and Response Plan in compliance with the requirements of Senate Bill 762 and this Plan was last updated on June 18, 2024; and

WHEREAS, the District's staff has proposed minor changes to statistics in the "Utility Profile" portion of the plan;

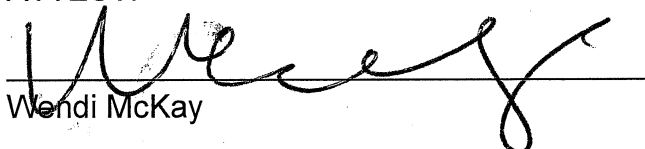
NOW, THEREFORE, BE IT RESOLVED AND ENACTED BY THE BOARD OF DIRECTORS OF EMERALD PEOPLE'S UTILITY DISTRICT:

1. The District adopts the attached Wildfire Mitigation and Response Plan. District staff shall operate under the guidelines laid out in this Plan and provide periodic updates to the Board regarding the activities described therein. The Plan shall be reviewed by District staff at least annually and proposed changes shall be brought to the Board as needed.
2. The updated Wildfire Mitigation and Response Plan shall be submitted to the State of Oregon.

ADOPTED by the Board of Directors on June 17, 2025.

By: 
Curt Offenbacher
President, Board of Directors

ATTEST:


Wendi McKay

Secretary to the Board

Votes of the Directors:	Yes	No	Abstain
Chappel	☒	☐	☐
Kimball	☒	☐	☐
Offenbacher	☒	☐	☐
Olson	☒	☐	☐
Parker	☒	☐	☐