Pacific Power Wildfire Prevention
Public Safety Power Shut-off (PSPS)
Hood River

June 11, 2019
Wildfire Mitigation Plan Components

Public Safety Power Shutoff (PSPS) during Extreme Risk Days where thresholds for wind and low precipitation have been exceed.

During Extreme Risk Days, in identified areas, deploy additional resources to area for assessment / monitoring at a local level.

Utilization of enhanced protection and control settings during Red Flag Warning Days, which require additional field patrols before re-energizing lines after a fault event.

Implementation of enhanced weather monitoring and weather forecasting in localized areas, including installation of weather monitoring stations.

System modifications to minimize risk and impact to customers, including installation of insulated conductor, relays, and sectionalizing equipment.

- **System Hardening**
- **Situational Awareness Monitoring**
- **Red Flag Warning Days (Relay / Control Settings)**
- **Extreme Risk Days (monitoring / resources)**
- **PSPS**
Public Safety Power Shut-off Key Points

• PSPS is considered last line of defense and augments other plan elements which include circuit hardening, situational awareness, operational tactics and engineering strategies.

• The company’s PSPS is focused on areas where there is coincidence of fire spread risk, people and property and weather patterns that could contribute to significant impacts to those populations.

• The company is extending elements of the California PSPS to its other service areas, including stakeholder outreach, aligning notification timeframes and notification triggers.

• For public safety, PSPS would occur only when key triggers are forecasted to be reached; it is generally expected that these events will be infrequent based on normal weather patterns.

• The key triggers include a fire-fighting based drought index (Keetch-Byram Drought Index-KBDI) and a fire weather index (Fosberg Fire Weather Index-FFWI), as well as either sustained or gusting windspeeds.

• The company to utilize third-party weather forecasting firm that will be installing additional weather stations in 2019 on company circuits to further improve our situational awareness supporting PSPS.

• As new information is obtained, key triggers will be re-evaluated and any necessary changes will result in modifications to alert levels and retooling of company processes.
Public Safety Power Shut-off Criteria

- **Stable Environmental Conditions**
- **Short Term Environmental Conditions**
  - **KBDI over 620**
  - **FFWI over 30**
- **PSPS Watch**
  - **Gusts over 31mph**
- **Wind**
  - **Sustained over 17mph**
  - **Gusts over 26mph**
- **Additional Criteria**
  - Environmental
  - Locational
  - Situational
- **Pacific Power Emergency Operation Center (EOC) Active**
- **Public Safety Power Shut-off**
PSPS Additional Criteria

While mainly elevated through environmental conditions (drought and wind); the decision to implement PSPS considers several factors:

**Environmental**
- ✓ Recent precipitation
- ✓ Wind directionality
- ✓ Recent fire activity throughout service territory

**Locational**
- ✓ Alternative ways to re-route power to affected areas
- ✓ Impacts on mandatory or voluntary evacuation orders in place (ingress / egress routes)

**Situational**
- ✓ Real-time situational awareness information from personnel positioned in the impacted areas identified as potentially at risk
- ✓ Current fire activity throughout service territory
- ✓ Input from local emergency services and response authorities
# PSPS Criteria History

## Hood River Urban

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**From 2010 to 2018:**

- PSPS Watches: 0
- PSPS Events: 0
- Average PSPS Event Duration: 0

## Hood River Rural

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**From 2010 to 2018:**

- PSPS Watches: 0
- PSPS Events: 0
- Average PSPS Event Duration: 0
## PSPS Timeline

### Pacific Power EOC monitors situation and communication

<table>
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<th>Timeframe</th>
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<tr>
<td><strong>72 - 48 Hours, Candidate PSPS:</strong></td>
<td>Forecast received. Contact emergency management, state regulatory authority, media, social media, customers (according to chosen method); community based organizations such as Red Cross alerted.</td>
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<td><strong>24 Hours, Candidate PSPS:</strong></td>
<td>Monitor and communicate to emergency management and customers. All customers receive an outbound call in addition to other methods of notification. All social media platforms updated including website. Begin personal contact of identified life support customers.</td>
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<td><strong>2 Hours, Imminent PSPS:</strong></td>
<td>Two hour imminent alert outbound calls placed to all customers. List of uncontacted life support customers is provided to the incident commander. All social media platforms updated including website. Emergency management, the media, and community based organizations are updated.</td>
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<td><strong>1 Hour, Imminent PSPS:</strong></td>
<td>One hour imminent alert outbound calls placed to all customers. All social media platforms updated including website. Emergency management and the media are updated.</td>
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<tr>
<td><strong>Event Begins:</strong></td>
<td>Event begins outbound calls are placed to all customers. All social media platforms updated including website. Emergency management and the media are updated.</td>
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Key Information about PSPS

Pacific Power will provide information regarding PSPS on its public website at pacificpower.net, which includes:

- Actions taken to harden the system to reduce risk
- Monitoring conditions
- Criteria for triggering an event
- Map of PDZ areas
- Notification before, during and at the conclusion on an event
- Restoration information

PSPS Notification

- Customers will be notified with a combination of phone calls, texts, and emails based on selected preference. All alerts will correspond with updates to social media platforms and the website
- Notification will include the approximate start time of the outage, the forecasted duration, the timeline for the next update, and where to find additional information on the website
- Customers previously identified as needing electricity for medical equipment will receive personal outreach
Cancellation or Re-energization

If the triggering conditions initiating a PSPS change and the need to de-energize is no longer in effect:

✓ All customers previously contacted will receive an outbound call using the cancellation script
✓ Social media platforms will be updated and a press release is issued
✓ Regional Business Managers and Tariff Policy will also contact all external stakeholders previously notified of the pending event.

During the PSPS, customers will receive updates as to the status of the outage. An update will be prompted when the status of the outage, or the estimated time of restoration, changes
Other Resources

Customers can learn more at:  https://www.pacificpower.net/wildfiresafety
Emergency responders at:  https://www.pacificpower.net/ed/hws/frs0.html
Track outages at:  https://www.pacificpower.net/ed/po.html
Hood River Urban PDZ  
Critical and Priority Customers Identified

Electrically connected PDZ

Through sectionalization of the circuits the PDZ can likely be reduced to a smaller area
Hood River RuralPDZ
Critical and Priority Customers Identified