

2022 WMPs/ PacifiCorp
August 5, 2022
CalAdvocates-PacifiCorp-2022WMP-18 – 18.1

CalPA Data Request 18.1

Please provide the spreadsheet that PacifiCorp provided as a response to data request CalAdvocates-PacifiCorp-2022WMP-16 question 12 with an additional column containing the start time of the outage.

Response to CalPA Data Request 18.1

The Company assumes that the reference to “CalAdvocates-PacifiCorp-2022WMP-16 question 12” is intended to be a reference to CalPA Data Request 16.12. Based on the foregoing assumption, the Company responds as follows:

Please refer to Attachment CalPA 18.1.

Despite PacifiCorp's diligent efforts, certain information protected from disclosure by the attorney-client privilege or other applicable privileges or law may have been included in its responses to these data requests. PacifiCorp did not intend to waive any applicable privileges or rights by the inadvertent disclosure of protected information, and PacifiCorp reserves its right to request the return or destruction of any privileged or protected materials that may have been inadvertently disclosed. Please inform PacifiCorp immediately if you become aware of any inadvertently disclosed information.

CalPA Data Request 18.2

- (a) Does PacifiCorp use a ground overcurrent setting as part of its fast-trip settings for wildfire mitigation.
- (b) If the answer to subpart (a) is yes, please provide all settings including:
 - i. Minimum to trip current;
 - ii. Definite time delay;
 - iii. The time-current curves; and
 - iv. The coordination parameters
- (c) Please explain the reasoning supporting the choices described in subpart (b) of this question.

Response to CalPA Data Request 18.2

- (a) Yes.
- (b) Please refer to the Company's responses to subparts i. through iv. below:
 - i. Set to 200 percent of the maximum imbalance as determined from the one-year load profile. If one-year load profile is not available, set to 50 percent of forecast feeder demand for the next five years.
 - ii. Set to 0.02 seconds unless there are line reclosers downstream. If there are line reclosers downstream, set to 0.1 seconds plus the 'fast' operate time of the downstream recloser.
 - iii. Coordinated time overcurrent curves were not the primary protection used during times of elevated fire risk. At the substation time overcurrent curves are only used as backup elements once the decision has been made to implement sensitive protective settings. For line reclosers a very fast fuse saving curve is used.
 - iv. When operating under sensitive protective settings definite time elements are used to provide coordinated tripping on the feeder. Time overcurrent curves are active to provide backup protection.
- (c) Most faults on the distribution system are single line to ground and would therefore be detected by ground overcurrent protective elements. The sensitive detection of these faults is therefore an essential element of any wildland fire protection strategy. These elements can be set more sensitively than phase elements without impacting the ability to serve load. A minimum pickup was established based on the greatest imbalance which was detected in the prior year's loading data with sufficient

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margin for system anomalies and restoration activities. Any imbalance current above this threshold is therefore assumed to be a fault. In the absence of this loading data the threshold is set based on load forecast information so that service is not unnecessarily interrupted.

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