

2022 WMPs/ PacifiCorp

June 3, 2022

CalAdvocates-PacifiCorp-2022WMP-08 – 8.1

CalPA Data Request 8.1

2022 WMP Update submission - Does PacifiCorp consider egress risk in determining where to target system hardening programs within its California service territory?

Response to CalPA Data Request 8.1

Egress risk is utilized to determine prioritization of projects and which ones get undertaken first. It is not utilized when determining where to target system hardening programs and the scoping portion of that process.

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 8.2

2022 WMP Update submission - If the answer to question 1 is yes, please explain:

- (a) How PacifiCorp identifies locations where egress risk is important;
- (b) How egress risk is factored into decision making; and
- (c) How egress risk is weighted against other factors.

Response to CalPA Data Request 8.2

The Company assumes that the reference to “question 1” is intended to be a reference to “CalPA Data Request 8.1. Based on the foregoing assumption, the Company responds as follows:

- (a) PacifiCorp identifies locations where egress risk is important by reviewing areas where the road network in the area could be constrained in a fire. Such situations could cause the population in the area to have difficulty in attempts to leave that area. These higher risk locations would normally be areas located far from major roads, such as Interstate 5.
- (b) Egress risk is a contributing factor in determining prioritization. PacifiCorp utilizes the egress risk to gauge the urgency of select projects and determine which projects mitigate areas with limited egress. A higher egress risk and limitations of egress typically aligns with a higher project priority.
- (c) Egress risk as a factor is weighed less heavily when compared to Localized Risk Assessment Model (LRAM). LRAM prioritization is factored in first and then following that, project manager prioritization within groupings. In the project manager process, egress risk is factored in and supports the prioritization component of grid hardening projects.

CalPA Data Request 8.3

2022 WMP Update submission

- (a) Does PacifiCorp maintain a list of egress-constrained communities within the HFTD?
- (b) If the answer to subpart (a) is yes, please provide this list.

Response to CalPA Data Request 8.3

- (a) No. PacifiCorp does not maintain a list of egress-constrained communities within the high fire threat district (HFTD). However, egress may be considered when the company evaluates the potential for a public safety power shut-off. Along those lines, egress issues may be discussed with county and local emergency management agencies.
- (b) Please refer to the Company's response to subpart (a).

CalPA Data Request 8.4

2022 WMP Update submission

- (a) If the answer to question 3(a) is yes, does PacifiCorp consult with local government or first responder agencies in developing this list?
- (b) If the answer to subpart (a) of this question is yes, please describe any such consultations that informed your 2022 WMP Update, including which agencies or stakeholders were involved and when the consultations occurred.

Response to CalPA Data Request 8.4

The Company assumes that the reference to “question 3(a)” is intended to be a reference to CalPA Data Request 8.3 subpart (a). Based on the foregoing assumption, the Company responds as follows:

- (a) Not applicable. Please refer to the Company’s response to CalPA Data Request 8.3 subpart (a).
- (b) Please refer to the Company’s response to subpart (a) above.

CalPA Data Request 8.5

2022 WMP Update submission - Page 100 of PacifiCorp's 2022 WMP states: "PacifiCorp will also look to leverage Technosylva's WRRM [wildfire risk reduction model] model to expand upon existing capabilities of LRAM [localized risk assessment model] and further evaluate RSE [risk-spend efficiency] and long-term planning".

- (a) How does PacifiCorp intend to use the WRRM model to expand on existing LRAM capabilities?
- (b) What is PacifiCorp's projected timeline for this expansion?
- (c) How does PacifiCorp intend to use the WRRM model to further evaluate RSE?
- (d) Does the WRRM model currently influence PacifiCorp's long-term planning?
- (e) How does PacifiCorp expect the WRRM model to inform and influence its long-term planning in the 2023-2025 WMP cycle?

Response to CalPA Data Request 8.5

- (a) PacifiCorp plans to use the wildfire risk reduction model (WRRM) to update the existing wildfire-related environmental factors (surface and canopy fuels, climatology, and potential wildfire impacts) within localized risk assessment model (LRAM).
- (b) The priority in 2022 is the deployment of Technosylva's WRRM and create a plan for the integration/expansion with LRAM capabilities. PacifiCorp intends to complete the expansion in 2023.
- (c) As PacifiCorp continues to learn from other utilities through working groups and workshops, the Company is evaluating the incorporation of WRRM's environmental factors into risk-spend efficiency (RSE) to obtain better data on consequence and improve RSE's consequence risk scores. The Company expects to use the large quantity of Monte Carlo match drop simulations that Technosylva provides in order to get a much more accurate estimate of the damage from an ignition event such as buildings destroyed, and acres burned.
- (d) As described in PacifiCorp's 2022 Wildfire Mitigation Plan (WMP), PacifiCorp does not currently have WRRM, therefore, the WRRM does not currently influence PacifiCorp's long-term planning. The Company is in the early stages of the WRRM deployment which will be completed by the end of 2022, therefore PacifiCorp does not have outputs from the WRRM to use in its long-term planning yet.
- (e) Once fully implemented, PacifiCorp plans to incorporate WRRM results into RSE calculations to evaluate initiatives throughout PacifiCorp's service territory in long-term planning. PacifiCorp plans to report objective RSE values for line rebuilds and other initiatives in 2023.

CalPA Data Request 8.6

2022 WMP Update submission - Pages 12, 113, 137, and 216 of PacifiCorp’s 2022 WMP address risk-spend efficiency (RSE) estimates. Describe the methods that PacifiCorp currently uses to estimate the risk reduction benefits of wildfire mitigation initiatives (for purposes of calculating RSE) in each of the following categories:

- (a) Grid design and system hardening
- (b) Vegetation management
- (c) Asset management and inspections
- (d) Public safety power shutoffs
- (e) Grid operations and protocols.

Response to CalPA Data Request 8.6

PacifiCorp has developed a methodology to calculate risk-spend efficiency (RSE) and has estimated RSE values for a few wildfire mitigation initiatives in the grid hardening and vegetation management categories. These preliminary values utilize localized risk assessment model (LRAM) to determine ignition rates (likelihood of risk events) based on outage data as well as the Environmental Risk Score from LRAM. Note: these values were not reported in PacifiCorp’s 2022 Wildfire Mitigation Plan (WMP) Update as PacifiCorp is still assessing how assumptions made and other factors influenced the generated RSE values, consequently these estimated RSE values have not been validated yet and are not being used in decision making at this time. RSE values for asset management and inspections, public safety power shutoffs (PSPS) and grid operations have not been estimated.

Following the same path as larger utilities, PacifiCorp is pursuing the integration of Technosylva’s wildfire risk reduction model (WRRM) layers into RSE calculations in order to refine and generate formal RSE values. PacifiCorp is currently evaluating and planning for the integration of WRRM’s environmental factors into RSE in order to obtain better data on consequence and improve RSE’s consequence risk scores. This integration is planned to be completed in 2023 which will enable PacifiCorp to generate objective RSE values for covered conductor. As stated in PacifiCorp’s 2022 WMP, page 113, PacifiCorp will update and include other RSE calculations in its 2024 WMP Update.

2022 WMPs/ PacifiCorp

June 3, 2022

CalAdvocates-PacifiCorp-2022WMP-08 – 8.7

CalPA Data Request 8.7

2022 WMP Update submission - Please provide any available work papers substantiating PacifiCorp's RSE calculations for grid design and system hardening programs.

Response to CalPA Data Request 8.7

Please refer to Attachment CalAdvocates 8.7.

Note: this is a draft document as PacifiCorp continues to evaluate its risk-spend efficiency (RSE) calculations.

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