

**Office of Consumer Services (OCS) Exhibit No. 1.3D
Data Requests As referenced in OCS – 1D Phillip Hayet**

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UAE Data Request 5.1

UAE Data Request 5.1

CONFIDENTIAL REQUEST - Follow-up to RMP Response to UAE Data Request No. 3.5. In its response to UAE Data Request No. 3.5(b)(i), RMP references a transformer failure at the Aeolus substation which occurred on September 30, 2021. In response to UAE Data Request 3.5(b)(iii), RMP indicates that “Generally, all East Wyoming generation was impacted by the September 30, 2021 Aeolus substation outage”. In response to UAE Data Request 3.5(b)(iv), RMP states that [REDACTED]

[REDACTED] Please provide the following information:

- (a) Identify the duration of the substation outage or the duration of the period in which the substation did not operate at full capacity because of a transformer failure;
- (b) Identify by name each generation unit impacted or curtailed by the Aeolus substation outage or transformer failure;
- (c) At each such generating unit, identify the amount (in MWh) of reduced production due to curtailments as a result of the substation outage or transformer failure in both HLH and LLH;
- (d) For each such generating unit, identify the loss in value (in \$) of Production Tax Credits that the Company expects would have been produced but for the Aeolus substation outage or transformer failure; and
- (e) Excluding the lost value of Production Tax Credits, identify the overall increase to actual net power costs in 2021 associated with the Aeolus substation outage or transformer failure.

Confidential Response to UAE Data Request 5.1

The Company takes this opportunity to correct the dates of the Aeolus substation outage that was previously stated in the Company’s response to UAE Data Request 3.5. Please refer to the Company’s response to subpart (a) below for the correct actual dates / times of the Aeolus substation outage.

- (a) [REDACTED]

- (b) Please refer to the list below for the PacifiCorp owned and contracted generation resources that were impacted or curtailed during the Aeolus

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substation outage:

[REDACTED]

- (c) Please refer to Confidential Attachment UAE 5.1
- (d) Please refer to Confidential Attachment UAE 5.1.
- (e) Please refer to Confidential Attachment UAE 5.1.

Confidential information is provided subject to Public Service Commission of Utah (UPSC) Rules R746-1-601–606.

Confidential Attachment UAE 5.1 Redacted Entirely.

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UAE Data Request 5.2

Follow-up to RMP Response to UAE Data Request No. 3.5. Please state whether it is possible for a transformer like the one at the Aeolus substation to fail as a result of overloading or improper grid operations or some fault attributable to the Company. Please note that this data request does not ask RMP to state whether that was the reason for the Aeolus substation failure, only whether grid operations can cause transformer failure.

Response to UAE Data Request 5.2

PacifiCorp installs several different types of protection on its transformers, such as Aeolus, that will ensure that the transformer will trip/protect itself before it results in failure of transformer. The different forms of protections installed on a transformer, such as Aeolus, include:

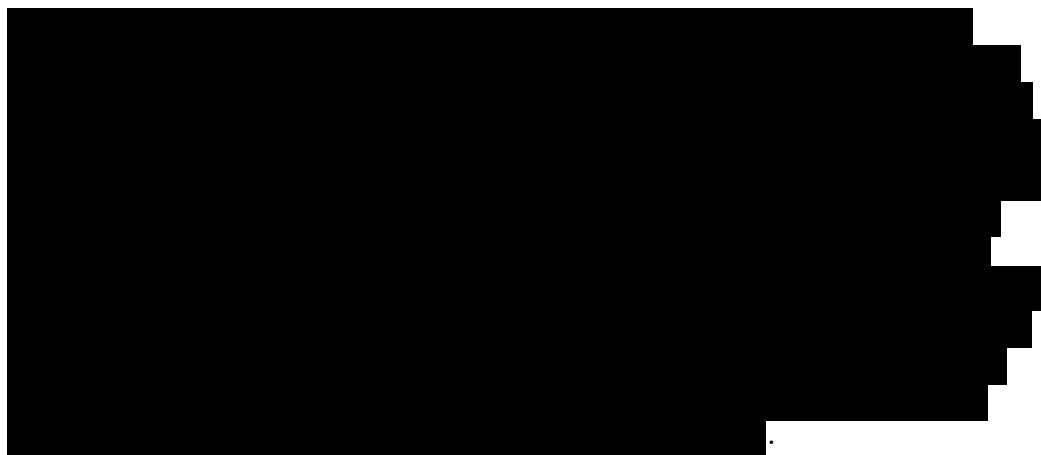
- High-side phase overcurrent relay;
- Sudden pressure relay in both main and load tap changer (LTC) compartments;
- Differential relays;
- Overcurrent relays on the tertiary winding;
- Thermal “winding hotspot” relay;
- Ground detection protection for the tertiary bus if tertiary brought out;
- Low oil level;
- Pressure relief valve on transformers without conservator tank.

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UAE Data Request 5.3

Follow-up to RMP Response to UAE Data Request No. 3.5. Please state all the reasons for the transformer failure at the Aeolus substation.

Confidential Response to UAE Data Request 5.3



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