

January 30, 2020

VIA ELECTRONIC FILING

Public Utility Commission of Oregon
201 High Street SE, Suite 100
Salem, OR 97301-3398

Attn: Filing Center

**RE: LC 67—PacifiCorp's Compliance Filing—New Wind and Transmission Projects
Quarterly Update**

PacifiCorp d/b/a Pacific Power provides the attached report to the Public Utility Commission of Oregon (Commission) and staff, in compliance with Order No. 18-138, to provide quarterly updates to the Commission and staff as the development of the new wind projects from the 2017R Request for Proposals and transmission projects proceed. This report includes the update for the fourth quarter of 2019. Updates from the third quarter update have been provided in redline.

Please direct any questions regarding this report to Cathie Allen, Manager, Regulatory Affairs, at (503) 813-5934.

Sincerely,



Etta Lockey
Vice President, Regulation

cc: Rose Anderson, OPUC Staff



New Wind & Transmission Projects Quarterly Update

Public Utility Commission of Oregon
Fourth Quarter 2019



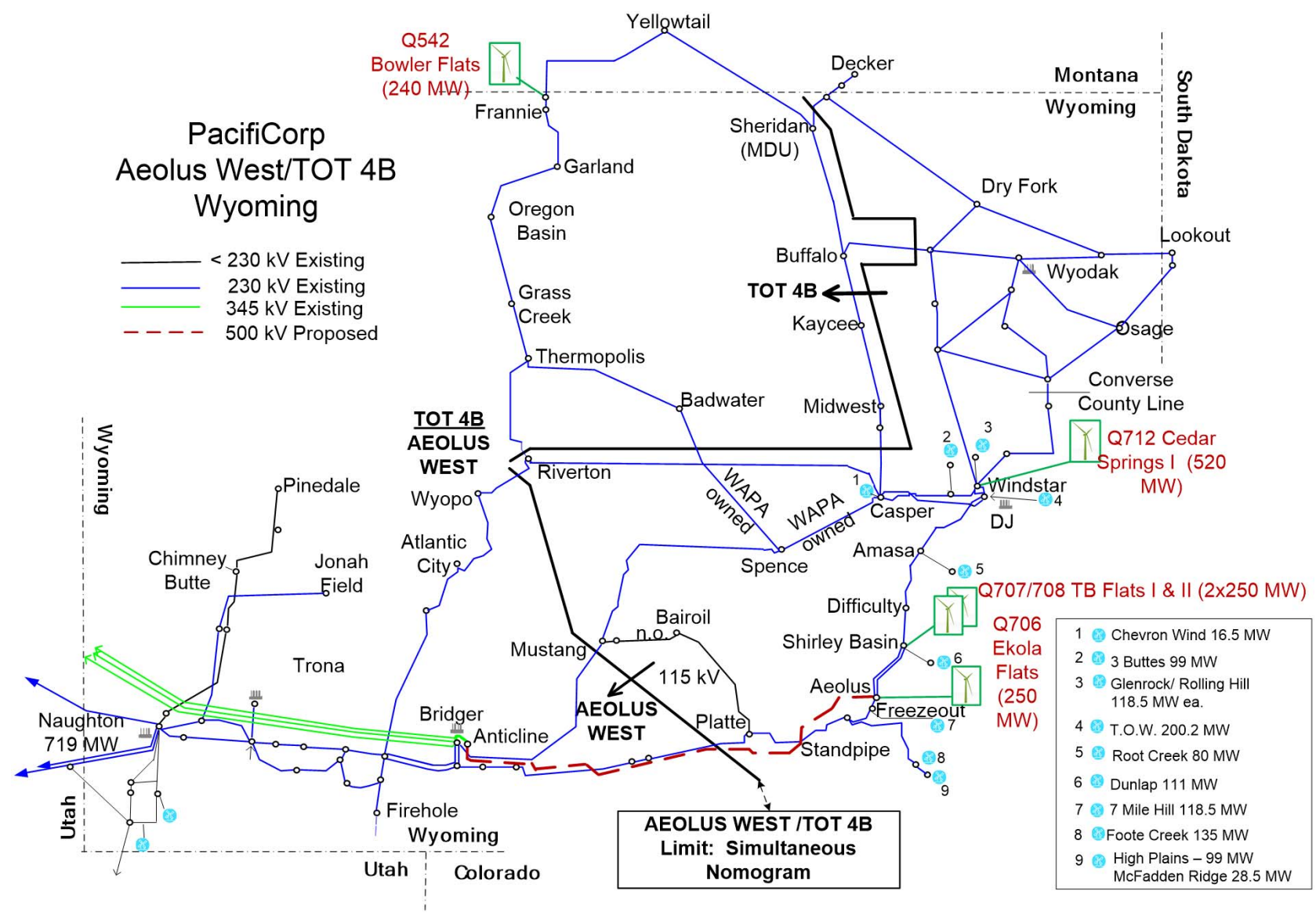
2017 IRP OPUC Acknowledgement Order



- 2017 IRP Acknowledgement Order, Order No. 18-138, docket LC 67, Appendix A:
Provide quarterly updates to the Commission and Staff as development of the projects chosen in the 2017R RFP and the transmission projects proceed (through the date the projects go into service).



Transmission/New Wind - Wyoming



2017R RFP Wind Projects Status Update



	TB Flats I & II (PacifiCorp)	Ekola Flats (PacifiCorp)	Cedar Springs (NextEra)
Interconnection	Shirley Basin POI; LGIA executed	Aeolus POI; LGIA executed	Windstar POI; A&R LGIA executed
Safe Harbor Turbines	Assigned and documented	Assigned and documented	Assigned and documented
Site Control	50,000 acres private/state leases acquired; gen-tie right-of-way acquired	17,000 acres private/state leases acquired; gen-tie right-of-way acquired	70,000 acres private leases acquired; gen-tie right-of-way acquired
Permitting Status	Permitting in process and on schedule; industrial siting and conditional use permits received	Permitting in process and on schedule; industrial siting and conditional use permits received	Permitting in process and on schedule; industrial siting and conditional use permits received
Avian Data Collection / Permitting	Underway (24 Months); agency consultation continues; eagle incidental take permit application submitted	Underway (24 Months); agency consultation continues; eagle incidental take permit application submitted	Underway (24 Months); agency consultation continues; WTG layout coordinated with USFWS
Contracts	Balance of plant EPC contract executed in August 2018 with FNTF issued in April 2019	Balance of plant EPC contract executed in August 2018 with FNTF issued in April 2019	Build-transfer agreement and power purchase agreement executed on October 19, 2018
Upcoming Milestones	Begin WTG component deliveries to site April 2020	Begin WTG component deliveries to site June 2020	BOP EPC contractor mobilize to site March 2020
Outreach / Community Engagement	Maintaining Industrial Siting Permit Conditions	Maintaining Industrial Siting Permit Conditions	Maintaining Industrial Siting Permit Conditions

Transmission Projects Status Update



	Aeolus to Bridger Transmission	Aeolus to Bridger Substation	230kV Network
Construction	<p>500kV and 345kV structure foundations on track and 98% complete</p> <p>500kV and 345kV structure erection on track and 86% complete</p> <p>500kV and 345kV wire stringing on track and 42% complete</p>	<p>Construction/modifications to Aeolus, Anticline and Jim Bridger substations underway; earthwork complete; foundation construction, conduits, steel installation, bus work and equipment installation ongoing at all three sites:</p> <ul style="list-style-type: none"> a) Transformer factory testing underway b) All reactors received on site c) Circuit breakers being received and installed <p>Latham Substation:</p> <ul style="list-style-type: none"> a) Substation expansion complete and in-service b) Installation of STATCOM device underway and on track c) Shunt capacitor additions at Hill Top and Grass Creek substations underway and on track <p>RAS modifications:</p> <ul style="list-style-type: none"> a) Engineering and procurement underway; b) Construction scheduled for summer 2020 	<p>New transmission line construction underway, but schedule at risk due to winter weather and BLM winter range constraints:</p> <ul style="list-style-type: none"> a) Shirley Basin - Aeolus substation (16 miles); Planned for late summer 2020, contingent upon Shirley Basin – Aeolus - Freezeout completion first b) Aeolus – Freezeout (4 miles) c) Freezeout - Standpipe (12 miles) <p>Substation construction/modifications at all locations are on track:</p> <ul style="list-style-type: none"> a) Windstar: Underway b) Shirley Basin: Underway c) Freezeout: Complete d) Wind Farm Collector Substations: Underway
Permitting Status	All required permits acquired	All required permits acquired	All required permits acquired
Upcoming Milestones	<p>Mechanical completion August 31, 2020 On track</p>	<p>Mechanical completion August 31, 2020 On track</p>	<p>Mechanical completion August 31, 2020 At risk due to BLM restrictions Contingency planning underway</p>

Transmission Planning Update



Complete

- Updating the power system model for Wyoming to include the PacifiCorp 2017R RFP short list resources as well as the latest computer model for the Vestas V136-4.3 MW wind turbines
- Completed the detailed analysis for both the Standpipe, Aeolus and Bridger (C/D) remedial action schemes (RASs) as well as engineering review of the three RAS schemes and initial presentation to WECC RAS Reliability Subcommittee (RASRS)
- Completed the Investment Appraisal Document (IAD) for replacing the dynamic line rating equipment on the Platte – Standpipe 230 kV line with newer technology equipment. (This dynamic line rating is key to achieving necessary transfers on the Aeolus West transmission path.)

In-Process

- Design of the Aeolus Area Voltage Control Scheme – utilizing wind farm dynamic reactive capabilities
- ~~- Engineering review and design of Aeolus RAS and Bridger (C/D) RAS schemes~~
- ~~- Review of SVC proposals from multiple bidders~~
- Coordination between Transmission Planning and Grid Operations **is continuing** to assure a smooth operational transition from project pre-D.2 project to the post-D.2 project configuration
- Aeolus West FAC-013-2 Assessment of Transfer Capability (effective summer 2021)

Future

- Approval of the Aeolus RAS and modifications to the **Standpipe and Bridger (C/D) RAS** by the WECC ~~Remedial Action Scheme Reliability Subcommittee (RASRS)~~
- Aeolus West Path Rating:
 - ~~▪ Western Electricity Coordinating Council FAC-013-2 transfer capability assessment studies~~
 - California ISO – RC West System Operating Limit (SOL) studies