Case No. PAC-E-21-07 Exhibit No. 24 Witness: Richard A. Vail BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION **ROCKY MOUNTAIN POWER** Exhibit Accompanying Direct Testimony of Richard A. Vail Aeolus to Bridger Anticline

Energy Vision 2020 Wind Network Improvements

D.2 Project Facilities:

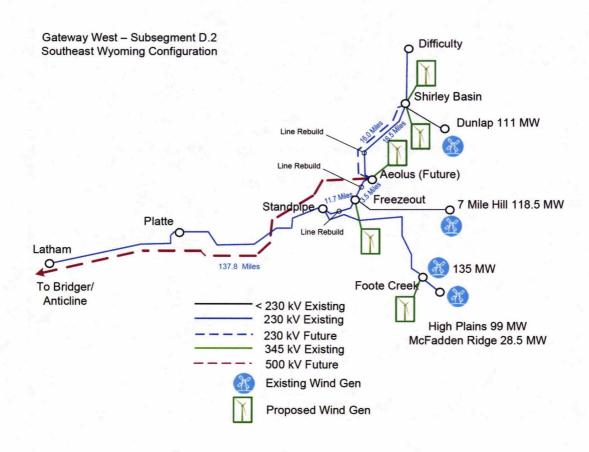
D.2 Project Transmission Facilities:

- Addition of the Aeolus 500/230 kV autotransformer
- Addition of the Aeolus Anticline 500 kV line (~138 miles)
- Addition of the Anticline 500/345 kV autotransformer
- Addition of the Anticline Bridger 345 kV line (5 miles)

Southeast Wyoming - Network Upgrades

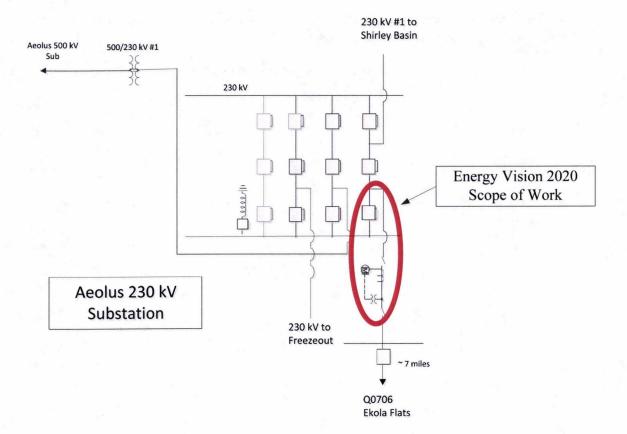
- Loop the Shirley Basin Freezeout 230 kV line into Aeolus 230 kV
- Add the Aeolus Shirley Basin 230 kV #2 line (~16 miles) [Q0707]
- Rebuild the Aeolus Shirley Basin 230 kV #1 line (~16 miles) [Q0712]
- Rebuild the Aeolus Freezeout Standpipe 230 kV line (~15 miles) [Q0712]
- Add Latham SVC

A drawing depicting all new D.2 Project network transmission facilities east of Jim Bridger Power Plant is provided below:



At the Aeolus substation to support the Ekola Flats wind project the following network upgrades are required:

- Add one (1) 230 kV 4000 ampere circuit breaker and one line position with associated switches.
- Include the project in the Aeolus RAS generation dropping scheme.



Rocky Mountain Power Exhibit No. 24 Page 3 of 6 Case No. PAC-E-21-07 Witness: Richard A. Vail

At Shirley Basin substation to support the inclusion of TB Flats I wind projects, the following network upgrades are required:

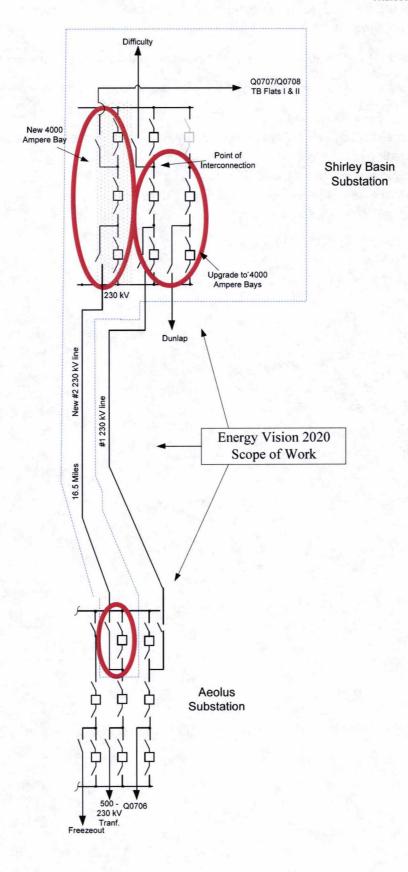
- Add one new bay and rebuild existing bays to 4000 amperes, seven (7) new 4000 ampere 230 kV circuit breakers, two line terminations with associated switches
- Construct a new approximately 16.5-mile Shirley Basin Aeolus 230 kV #2 line.

At Aeolus substation the following network improvements are required:

- Add one (1) new 4000 ampere 230 kV circuit breaker, one line termination and associated switches
- Include the project in the Aeolus RAS generation dropping scheme.

The TB Flats I and II were combined into a single point of interconnection. As such, to support inclusion of the TB Flats II wind the following network upgrades are required:

Include the project in the Aeolus RAS generation dropping scheme.

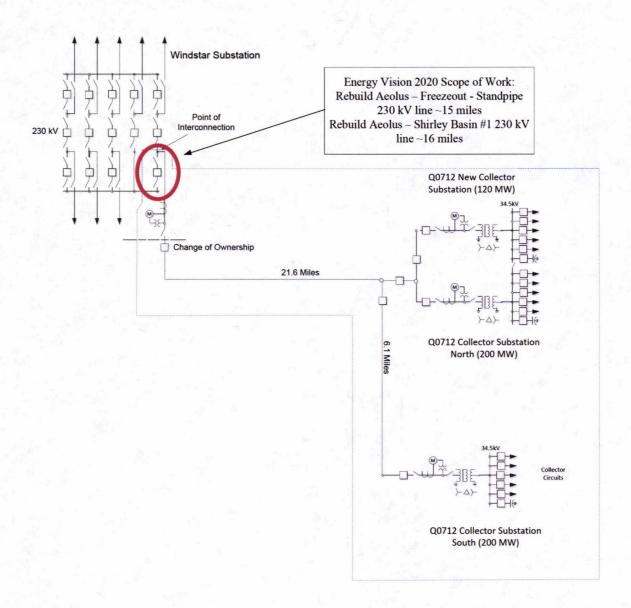


At Windstar substation to support the inclusion of Cedar Springs I wind project the following network upgrades are required:

Add one (1) 230 kV 3000 ampere circuit breakers and one line termination

At Freezeout substation to support the inclusion of Cedar Springs I wind project the following network upgrades are required:

- Add three (3) 230 kV 4000 ampere circuit breakers along with associated switches for retermination of lines associated with the Aeolus-Freezeout-Standpipe 230 kV line rebuild
- Upgrade two bays to 4000 amperes
- Rebuild the Aeolus Freezeout Standpipe 230 kV line ~15 miles
- Rebuild the Shirley Basin Aeolus 230 kV #1 line ~16 miles



Freezeout 230 kV

