

WIEC Data Request 16.10

Please provide the timing of the lost generation pertaining to contractor issues discussed in the Company's response to WIEC 9.13.

Response to WIEC Data Request 16.10

The following is a revised response for WIEC Data Request 9.13 including dates for the lost MWhs. The final three issues included in the Company's original response for Wyodak Plant were removed from this response because those incidents did not directly result in lost MWhs but were considered shadowed events.

Below is a summary of the contractor issues experienced by the Company related to outages for the 12 months ended June 2011 for the units that the Company operates.

Huntington Unit #1

- The major outage return to service date was delayed due to a boiler tube leak not adequately addressed by the contractor and identified during the initial fill of the boiler in preparation for light off. Lost generation attributable to this delay occurred on November 23, 2010 and resulted in 3,278 MWh's of lost generation capability.
- Unit trip due to incorrect booster fan oil skid control logic programming issues by the contractor occurred on December 31, 2010 resulting in 2,907 MWh's of lost generation capability.
- SO₂ Scrubber load center breaker trip caused by improper protective relay settings applied by the contractor occurred on February 17, 2011 resulting in 4,450 MWh's of lost generation capability.

Hunter Unit #2

- The unit had to be removed from service to repair an electro-hydraulic fluid leak to a turbine steam admission control valve attributable to contractor performance during valve reassembly on May 1, 2011 resulting in 3,547 MWh's of lost generation capability.

Jim Bridger Unit #3

- The boiler contractor experienced difficulty replacing the nose arch section of the boiler resulting in a return to service 5-days after the original scheduled return date of June 26, 2011 resulting in 127,200 MWh of lost generation capability.

Wyodak Unit #1

- The boiler contractor experienced weld quality issues during the replacement of the superheater outlet header extending return to service 4-days from April 11, 2011 until April 15, 2012 in resulting in approximately 32,000 MWh's of lost generation capability.

- The turbine contractor incorrectly used wrong turbine bearing clearance dimensions during reassembly of the turbine resulting in a forced outage on April 18, 2011 resulting in 31,825 MWh's of lost generation capability.
- During initial synchronization attempts following the completion of the major outage, the generator excitation system malfunctioned due to incorrect control logic programming resulting in a forced outage on April 22, 2011 and return to service on April 23, 2011 and 8,442 MWh's of lost generation capability.
- Following return to service, the generator tripped on "stator ground" indication. It was determined that materials used to clean the generator stator cooling water system were not rinsed adequately causing cooling water conductivity to remain elevated and caused the stator ground indication. The unit was forced off line on April 25, 2011 resulting in 63,304 MWh's of lost generation capability. The stator cooling water circuit was flushed and the unit returned to service.
- Several tube failures occurred following return to service identified to be poor weld quality installed by contractors requiring two separate forced outages; May 6, 2011 and again on May 17, 2011 resulting in a combined total of 36,827 MWh's of lost generation capability.

Please refer to the Company's response to WIEC Data Request 9.17. The Company received liquidated damages payments associated with the overhauls at Huntington Unit 1, Bridger Unit 3, and Wyodak Unit 1.