

Fairview Reactors and Transformer

This project will address high voltage issues at the Fairview 230 kV bus. BPA planning guidelines require that subgrid voltages stay at or below 1.05 pu for all credible contingency scenarios where that overvoltage would cause loss of life to equipment. During 2017, recorded voltages were above the recommended level (1.05 pu) one third of the time. Continuing to operate the equipment at the higher voltage levels will reduce the life of the equipment, increase noise levels, reduce reliability and risk a more catastrophic failure that would have environmental consequences.

To resolve the overvoltage issue, two reactors will be installed and one transformer and associated disconnect switches will be replaced. The transformer and switches are at the end of their useful lives and are needed to fully realize the reactor benefits. Further, the transformer has been targeted by the AC Substations sustain program as one of the top two replacement priorities due to a number of issues, including high PCB content and leakage.