

Voltage Schedules for Generators

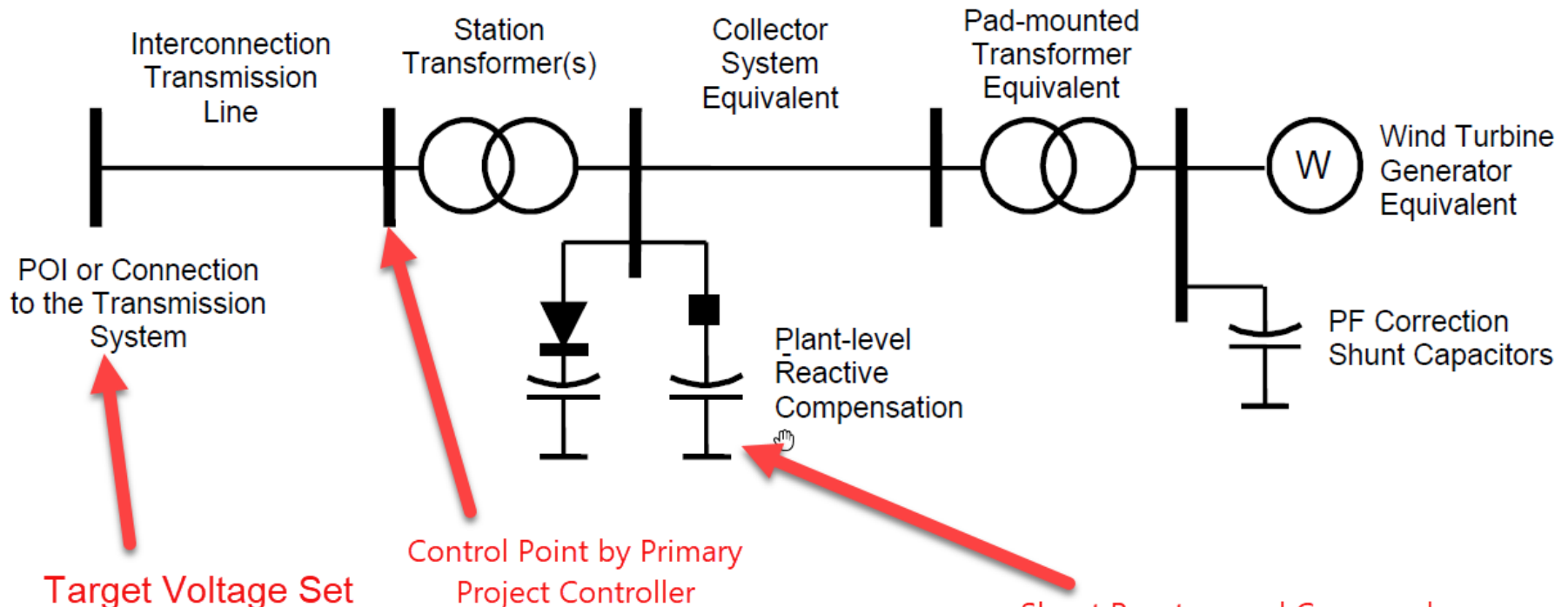
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Joint Operating Committee
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BPA Voltage Schedules

- <https://transmission.bpa.gov/Business/Operations/misc/BPAKV/SCHED.xls>

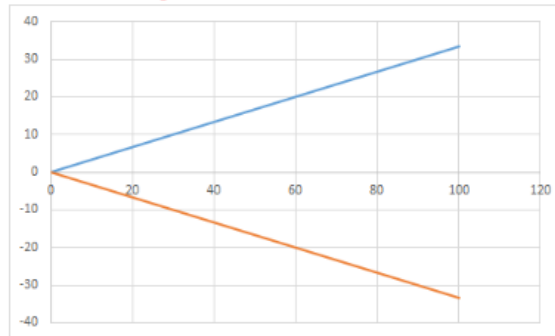
NON-FEDERAL-----									
BOX CANYON (PEND OREILLE)	115	117	117	117	3.0	POI		Jul-18	PEND OREILLE PUD(AVISTA)
CARMEN SMITH (EWEB)	115	122 MAX		116 MIN		3 POI		Dec-19	May exceed 122kV due to radial config.
HOPKINS RIDGE (PSE)	115	122 MAX		116 MIN	3.0	POI			Target = 119kV
HORN BUTTE (Willow Creek Energy LLC)	115	122 MAX		115 MIN	3.5	POI		Dec-08	see Boardman 115 Target = 118.5kV



Target Voltage Set by BPA

Control Point by Primary Project Controller

Shunt Reactors and Caps can be used to compensate for reactive losses and charging between the turbines and the POI.



Other voltage considerations

- Standard Droop setting: 4.5%
- If you are next to other projects, we may need to adjust the droop setting so the projects don't interfere with each other.
- Yes, you may use extra dynamic capability of your inverters/turbines instead of adding shunts – this creates a modified triangular PQ curve.

