

## Grand Coulee Pre-Third Power Plant Overhaul Work

This project includes four separate capital investments at the Grand Coulee Third Power Plant (TPP):

- Stator core and winding replacement on units G19 and G20
- Refurbishment of six cranes that will be used in unit overhauls (Complete)
- High voltage cable replacements (Complete)
- New materials storage building (Complete)

The TPP has six units (G19-G24) which provide 20% of the total nameplate capacity of the FCRPS and generate well over \$500 million in revenue annually. Beginning in 2013, the Bureau of Reclamation will begin a large scale rehabilitation program of the six TPP units. During the ten-year rehabilitation program, the TPP will operate with at least one of the six units off-line for service. Given that at least one unit will be out of service at all times during the rehabilitation program, it is imperative that the remaining units function as reliably as possible. To ensure reliability, it is prudent to replace or refurbish key unit components prior to the commencement of the rehabilitation program. These four projects are the last in a series of pre-rehabilitation investments designed to help ensure reliability, as well as support the rehabilitation work.

The four projects in this business case will complete the TPP pre-rehabilitation work. While these four projects are disparate in nature, they are combined in a single business case as they share the same general timeframe and serve to reduce the risk of an unplanned TPP unit outage during the ten year rehabilitation program.