

## **Grand Coulee Third Powerhouse G19 and G20 Transformer Replacement**

The Grand Coulee G-19 and G-20 transformer replacement project involves the removal, supply and installation of two transformer banks (6 single phases or tanks) at the Grand Coulee Third Powerhouse serving units G-19 and G-20. Reclamation is scheduled to begin a ten-year rehabilitation project for the six generating units in the Third Powerhouse beginning in 2012. These transformer replacements are part of a series of equipment replacements and refurbishments, preparatory to this rehabilitation project.

During the rehabilitation project, it will be critical that the risk of forced outages be as low as possible, thereby minimizing the chance for one or more additional large units to be forced out and maximizing plant generation reliability. The existing six transformers are all original equipment, with two phases at 33 years of age and four phases at 37 years of age. The average hydroAMP condition rating of these transformers is rated as marginal. All are showing deterioration in power factor tests, and maintenance levels are increasing. The Third Powerhouse generator units are critical to the FCRPS for power production, river management, system stability and ancillary services to the transmission main grid.

The project is scheduled to be completed by the end of FY 2012. Project cost estimates are business sensitive information and cannot be disclosed until the competitive solicitation, evaluation, negotiation and award processes with vendors is completed.