PSS®ODMS Team Completes Site Acceptance Testing for Otter Tail Power Company

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Sam Phillipson and Shouming Zhang recently completed PSS®ODMS Site Acceptance Testing for Otter Tail Power Company (OTP) in Fergus Falls, Minnesota. OTP serves approximately 127,000 customers with over 5,000 miles of transmission lines and a generating capacity of approximately 650 MW.

OTP contracted Siemens PTI to license PSS®ODMS to deploy on-line Network Applications for their control center. Major features provided include State Estimator and Contingency Analysis. This project helped drive the development of many new software enhancements such as support for the Microsoft SQL Server database platform, comprehensive PSS®E compatibility, support for dynamic flow limits and reverse flow limits, support for analog measurements on switching devices, bad measurement identification, State Estimator result publishing (to ICCP), and system redundancy/failover capability via Microsoft clustering.

Les Jarriel, president of Power Software and Consulting, writes:

"As a consultant on the Otter Tail Power Network Apps project, I had my doubts that any vendor could provide a successful State Estimate due to lack of observability and other system issues with the Otter Tail model. However, PTI's engineers worked diligently to improve their State Estimator to handle the observability issues and with the PSS®ODMS interface, analyzing the system issues was straightforward. PSS®ODMS is even being used for inter-company black start training for operators to visualize the restoration process."