

# PSS<sup>t</sup>ech

## Newsletter

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### **PSSTECH TAKES FIRST STEP TO HAVING THE OPP SYSTEM ON-LINE AT FENOC'S DAVIS-BESSE NUCLEAR PLANT**

*On March 22, 2016, Power System Sentinel Technologies, LLC (PSStech) performed its first site acceptance test (SAT) on an installed OPP System. The SAT was performed on two OPP Systems at FENOC's Davis-Besse NP. The SAT on each OPP System was 100% successful with testing of both OPP Systems being completed on the same day.*

### **OPP SYSTEM SITE ACCEPTANCE TESTING AT DAVIS-BESSE**



PSStech is pleased to announce successful completion of site acceptance testing (SAT) at Davis-Besse Nuclear Plant. Testing of two single-channel OPP Systems was performed on March 22, 2016 prior to an outage. During a pre-testing meeting with FENOC personnel, EPRI's Wayne Johnson provided some background on the industry's open phase initiative as well as EPRI's response and continued support to help the industry meet the NEI initiative.

The tests were performed in adverse (cold and very windy) conditions. Even with the adverse conditions, testing of both OPP Systems was completed on the same day. PSStech attributes the successful and rapid testing to the hospitality of the FENOC crew, the skill and readiness of the PSStech personnel, and the well thought-out OPP System design and installation plan.

To refresh some readers and to acquaint others with the ease of installation for the PSStech OPP System, there are only two external connections required for the system to operate as designed – one connection is that of the transformer neutral conductor passing through the OPP System cabinet, and the second connection is that of the power and control connection to the cabinet. There is no need for an extended transformer outage or extensive system modeling required to install the system.

### **OPP SYSTEM COMMISSIONING**

OPP System commissioning consists of two parts: 1) offline site acceptance testing and 2) online signal referencing. The offline site acceptance testing essentially consists of functional system testing after installation on site. The offline testing typically takes 1 to 2 hours per OPP channel and can be performed as soon as the OPP System is physically installed with power to the OPP cabinet. That is, the transformer does not have to be taken out of service to perform the offline testing. The OPP System can be installed with all power and control cables connected except the transformer neutral cable not run through the OPP cabinet.



The online signal referencing is performed after the OPP System is installed on the protected transformer and the transformer is online with the neutral cable passing through the OPP System cabinet. The online signal referencing portion of commissioning simply consists of pressing the Injection Signal Reference button on the OPP System, and verifying a few readings.

The offline and online portions of commissioning can be performed with one site visit by PSStech, or performed on two separate site visits, such as with the Davis-Besse commissioning.



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