

PSStech Newsletter

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PSSTECH OPP SYSTEM COMPLETES THREE DAYS OF RIGOROUS EXTENDED TESTING

On June 20-22, 2016, Dominion Power performed extended testing of the Power System Sentinel Technologies, LLC (PSStech) Open-Phase Protection (OPP) System at the Dominion Power Laboratories in Richmond, Virginia. The extended testing was 100% successful where the OPP system detected every open phase and double open phase event and did not false actuate on any non-open phase event.

OPP SYSTEM COMPLETES EXTENDED TESTING



PSStech is pleased to announce the successful completion of extended testing at the Dominion Power Laboratories in Richmond, Virginia. The extended testing on the OPP System was 100% successful. The OPP System detected every open phase and double open phase event, and did not false actuate on any non-open phase event. The testing was conducted using Dominion's Real-Time Digital power system Simulator (RTDS) exercising the OPP System's algorithm, hardware, and settings.

The OPP system settings were performed by PSStech and verified against an independently modeled system in RTDS. The extended tests included hundreds of scenarios to verify that the OPP System was both secure and reliable.



OPP SYSTEM EXTENDED TESTING

The OPP System extended testing included tests to ensure security against Geomagnetically induced currents (GIC), system voltage unbalance conditions, background harmonic distortion, unbalancing of loads, system faults, load side faults, variation of system voltage and frequency, variation of injection source voltage and frequency, and various switching events. In addition to verifying the security against these events, it was proven that the OPP System would detect open phases during these extreme conditions. These open phase conditions included both single-phase open events and double-phase open events with varying ground fault impedances and varying load conditions, providing additional assurance to the industry of the PSStech OPP System's capabilities.



PSStech is appreciative for the thoroughness and hard work of the Dominion team for its contribution to the industry's open phase initiative and continued support to help the industry meet this initiative.



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