

RECLOSER CONTROLLER SIMULATED SURGE ARRESTER OPERATION TEST REPORT

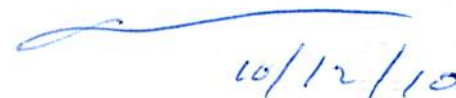
Client:	Schweitzer Engineering Laboratories, Inc., 2350 NE Hopkins Court, Pullman, WA – 99163, USA		
Test Date:	17 November 2010	Project:	20380-27
Nameplate Data:			
Three-Phase Recloser Controller:			
Manufacturer:	Schweitzer Engineering Laboratories, Inc., Pullman, WA, USA		
Model:	SEL-351R Falcon		
Part No.:	0351R3128BB15XXXX		
Serial No.:	2010286306		
Three-Pole Recloser:			
Manufacturer:	Cooper Power Systems, South Milwaukee, WI, USA		
Model:	Kyle Recloser Type "Nova27"		
Impulse Level (BIL):	150 kV _{peak}		
Rated Voltage:	27 kV _{rms}		
Rated Current:	630 A _{rms} / 12.5 kA _{rms} interrupting		
Serial No.:	CP571178011-DH		
Test Witnesses:	Mark Feltis, Schweitzer Engineering Laboratories, Inc., Pullman, WA, USA		
Test Standard:	IEEE Std C37.60-2003, Clause 6.13.2: "Simulated Surge Arrester Operation Test"		
Atmospheric Conditions:	<u>17 November 2010</u>		
	Temperature	16.5 °C	
	Relative humidity	38 %	
	Barometric pressure	745.3 mmHg	
Nominal Test Voltage and Current:	120 kV (150 kV * 0.8), 7 kA _{peak}		
Test Configurations Tested (in accordance with the above standard):			
<p>A – Five surges of positive polarity and five surges of negative polarity were applied to each of the three source bushing with the recloser open (total ten surges per bushing). B – Five surges of positive polarity and five surges of negative polarity were applied to each of the three source bushing with the recloser closed (total ten surges per bushing). C – Five surges of positive polarity and five surges of negative polarity were applied to each of the three load bushing with the recloser closed (total ten surges per bushing). D – 15 surges of positive polarity and 15 surges of negative polarity were applied to a properly rated transformer with the recloser closed. E – 15 surges of positive polarity and 15 surges of negative polarity were applied to a properly rated transformer with the recloser open.</p>			
Test Results:	The controller and switch complied with the requirements of IEEE Std C37.60-2003, Clause 6.13.2, configurations A to E.		
Remarks:	None		

Tested by:



R.G. Pollock,
 Senior Projects Specialist

Reviewed by:



A.J. Vandermaar, P.Eng.
 Manager, High Voltage Laboratory

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