CONTROLLER SIMULATED SURGE ARRESTER OPERATION TEST REPORT

Client: Schweitzer Engineering Laboratories, 2350 NE Hopkins Court, Pullman, WA 99163-5603, USA

Test Date: 16 & 17 August 2004 Project: 15193-27

Nameplate Data:

**Controller:**
Manufacturer: Schweitzer Engineering Laboratories, Pullman, Washington, USA
Model No.: 0351R2128411XX2
Serial No.: 2004125247

**Recloser:**
Manufacturer: Cooper Power Systems
Type: VWVE
Impulse level (BIL): 125 kV<sub>peak</sub>
Rated voltage: 27 kV<sub>rms</sub>
Rated current: 800 A<sub>rms</sub> continuous; 12 kA interrupting
Serial No.: 9688

**Control cables:** Model C510 & Model C515

Test Witness: Darin McKee & Kenneth G. Workman, Schweitzer Engineering Laboratories


Atmospheric Conditions:

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Relative humidity</th>
<th>Barometric pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>25.9 °C</td>
<td>48 %</td>
<td>758.6 mmHg</td>
</tr>
<tr>
<td>25.2 °C</td>
<td>46 %</td>
<td>758.4 mmHg</td>
</tr>
</tbody>
</table>

Test Current: 7 kA<sub>peak</sub>

Test Configurations (in accordance with the above standard):

A – surges applied to the source bushing with the recloser open
B – surges applied to the source bushing with the recloser closed
C – surges applied to the load bushing with the recloser closed
D – surges applied to a properly rated transformer with the recloser open
E – surges applied to a properly rated transformer with the recloser closed

Test Results: The controller and recloser operated normally following the Simulated Surge Arrester Operation Test performed in accordance with the test procedures as per the above standard. The controller complied with requirements of IEEE Std C37.60-2003, Clause 6.13.2.

Remarks: None

Senior Electrical Engineer

Approved by: A.J. Vandermaar, P.Eng.
Manager, High Voltage Laboratory

*This report shall not be reproduced except in full, without the written approval of Powertech Labs Inc.*