CONTROLLER SIMULATED SURGE ARRESTER OPERATION TEST REPORT

<table>
<thead>
<tr>
<th>Client:</th>
<th>G&amp;W Electric Co., 3500 West 127th Street, Blue Island, Illinois, USA, 60406</th>
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</thead>
<tbody>
<tr>
<td>Test Date:</td>
<td>25-27 October 2006</td>
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<tr>
<td>Project:</td>
<td>16878-27</td>
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</tbody>
</table>

**Nameplate Data:**

**Controller:**
- Manufacturer: Schweitzer Engineering Laboratories, Pullman, Washington, USA
- Model: SEL-351R
- Part No.: 0351R21281X15X224
- Serial No.: 2005304187

**Recloser:**
- Manufacturer: G&W Electric Co., Blue Island, Illinois, USA
- Type: VIP398ER-12S
- Impulse level (BIL): 150 kV<sub>peak</sub>
- Rated voltage: 38 kV<sub>rms</sub>
- Rated current: 800 A<sub>rms</sub> continuous; 12.5 kA interrupting
- Serial No.: 650-05-0429

**Test Witness:** Janet Ache, G&W Electric Co.

**Test Standard:**

**Atmospheric Conditions:**
- Temperature: 21.8 °C
- Relative humidity: 43%
- Barometric pressure: 759.4 mmHg

**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 the requirements of IEEE Std C37.60-2003, Clause 6.13.2.

**Remarks:**
- None

Tested and Prepared by:

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Approved by:

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Manager, High Voltage Laboratory

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