

Document Type	Relay Testing Procedure	Document Number	GEN-ENG-RELAY-0003		
		Revision Number			
<b>SUBJECT:</b>	<b>Relay Current Transformer (CT) and Potential Transformer (PT) Insulation Integrity Test</b>				
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Revision Number	Reason for Revision	Date	MOC #

**SCOPE and DEFINITION**

To comply with current NERC Reliability Standards, each PacifiCorp generation facility shall perform a DC ground test to all protective relay CT and PT input circuits during the testing of the relay.

**PROCEDURE ADDENDUM**
**Current Transformer (CT) Circuits**

- 1.) **The CT circuit must be de-energized.** Conform to all PacifiCorp energy isolation procedures that apply.
- 2.) Isolate all devices that may be damaged from the insulation integrity test voltage such as relays and meters. Always check prints to determine all of the devices in the circuit prior to performing the insulation integrity test.
- 3.) Isolate the single point ground and verify that there is only one single point ground. If a second ground point is found it must be reported and corrected.
- 4.) Insulation test voltage for CT circuits is 500 Vdc. Values less than 1 megohm must be reported to Generation Engineering.

**Potential Transformer (PT) Circuits**

- 1.) **The PT circuit must be de-energized.** Conform to all PacifiCorp energy isolation procedures that apply.
- 2.) Isolate all devices that may be damaged from the insulation integrity test voltage such as relays and meters. Always check prints to determine all of the devices in the circuit prior to performing the insulation integrity test.
- 3.) Isolate the single point ground and verify that there is only one single point ground. If a second ground point is found it must be reported and corrected.
- 4.) Insulation test voltage for PT circuits is 500 Vdc. Values less than 1 megohm must be reported to Generation Engineering.