Transmission & Distribution
Material & Installation Specification

High Potential Power Cable Test

I. Quantity

The base bid shall include the indicated number of High Potential Power Cable Test units furnished and installed as hereinafter specified.

II. Material

A. Equipment - Hi-Pot Tester.

III. Procedure

A. Disconnect both ends of all phases of the cables to be tested. Cables must be disconnected from all equipment, such as transformers, CT's, PT's and Lightning Arrestor's.

B. Test one phase at a time. Phases to be separated and insulated from each other at both ends.

C. Phases not being tested shall be grounded.

D. Weather conditions and cable must be dry. Test area, (both ends of conductor under test), shall be barricaded and warning signs posted to exclude the public or other non-authorized persons.

E. Apply high voltage to the cable using the following steps:

1. Gradually increase voltage to the cable in 2KV increments, at 10 seconds intervals, until reaching 15KV phase to ground. Log data at each increment.

2. Maintain 15KV for 5 minutes. Log data at end of 5 minutes.

3. Gradually decrease voltage to the cable in 2KV increments, at 10 second intervals. Log data at each increment.

4. Discharge cable.

5. Record results both in spread sheet format and graph.

F. Repeat steps A thru E for each phase.

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HIGH POTENTIAL POWER CABLE TEST		
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APPROVED: R. SPRITE		
	SHEET 1 of 2	

HIGH POTENTIAL TEST

Work Order Number _____ Date _____

Job Name _____

Circuit Number _____

Rating _____KV _____%

Length _____Ft. Date installed _____ Number of Splices _____

Method of Termination_____

System Voltage _____KV _____Delta _____Wye

Grounded _____ Ungrounded _____

Weather Conditions _____

Air Temperature _____ Humidity _____

Voltage Increments _____KVDC Hold Time _____ Seconds

Test Instrument Make _____ Model _____ Tool No. _____

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