

RFI FORM

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RFI (REQUEST FOR INFORMATION)			
PROJECT NO.:		RFI NO.:	002
PROJECT NAME:	MAINTAIN Electrical Power Distribution System	DATE REQUESTED:	08/07/2017
SOLICITATION NO.:	VA262-17-B-1269	REFERENCE:	
DRAWING:		SPECIFICATION SECTION:	
DESCRIPTION OF PROBLEM OR INFORMATION BEING REQUESTED			
Please be specific as possible: As per the scope of work (Section 4. Scope A.6) "inspection and test procedures shall adhere to the Standard for Maintenance Testing Specifications for Electrical Power Distribution Equipment and Systems set forth by the International Electrical Testing Association (NETA) and approved by the (ANSI). However, on item 8 regarding Switchgear/Switchboard – no testing was specified. Only inspection, torque works and cleaning?"			
PROJECT MANAGER'S RESPONSE			
Missing detailed Scope of Work scanned and provided along with this RFI response.			
TRACKING NO.:		AMENDMENT NO.:	
VA PROJECT ENGINEER/MANAGER: John Gorman, Electronics & Electrical Supervisor		DATE: 08/17/2017	

7. INSPECTION AND TEST PROCEDURES

7.1 Switchgear and Switchboard Assemblies (*continued*)

15. Inspect control power transformers.
 1. Inspect for physical damage, cracked insulation, broken leads, tightness of connections, defective wiring, and overall general condition.
 2. Verify that primary and secondary fuse ratings or circuit breakers match drawings.
 3. Verify correct functioning of drawout disconnecting and grounding contacts and interlocks.
16. Perform as-left tests.

2. Electrical Tests

1. Perform resistance measurements through bolted electrical connections with a low-resistance ohmmeter in accordance with Section 7.1.1, if applicable.
2. Perform insulation-resistance tests for one minute on each bus section, phase-to-phase and phase-to-ground. Apply voltage in accordance with manufacturer's published data. In the absence of manufacturer's published data, use Table 100.1.
- *3. Perform an overpotential test on each bus section, each phase-to-ground with phases not under test grounded, in accordance with manufacturer's published data. If manufacturer has no recommendation for this test, it shall be in accordance with Table 100.2. The test voltage shall be applied for one minute. Refer to Section 7.1.3 before performing test.
- *4. Perform insulation-resistance tests on control wiring with respect to ground. The applied potential shall be 500 volts dc for 300-volt rated cable and 1000 volts dc for 600-volt rated cable. Test duration shall be one minute. For units with solid-state components or control devices that cannot tolerate the applied voltage, follow manufacturer's recommendation.
5. Perform electrical tests on instrument transformers in accordance with Section 7.10.
6. Perform ground-resistance tests in accordance with Section 7.13.
7. Determine accuracy of all meters and calibrate watt-hour meters in accordance with Section 7.11.
8. Control Power Transformers
 1. Perform insulation-resistance tests. Perform measurements from winding-to-winding and each winding-to-ground. Test voltages shall be in accordance with manufacturer's published data. In the absence of manufacturer's published data, use Table 100.1.

* Optional



7. INSPECTION AND TEST PROCEDURES

7.1 Switchgear and Switchboard Assemblies (*continued*)

2. Verify correct function of control transfer relays located in switchgear with multiple power sources.
9. Verify operation of switchgear/switchboard heaters and their controller, if applicable.
10. Perform system function tests in accordance with Section 8.

3. Test Values

3.1 Test Values – Visual and Mechanical

1. Compare bolted connection resistance values to values of similar connections. Investigate values which deviate from those of similar bolted connections by more than 50 percent of the lowest value. (7.1.1.7.1)
2. Bolt-torque levels should be in accordance with manufacturer's published data. In the absence of manufacturer's published data, use Table 100.12. (7.1.1.7.2)
3. Results of the thermographic survey shall be in accordance with Section 9. (7.1.1.7.3)

3.2 Test Values – Electrical

1. Compare bolted connection resistance values to values of similar connections. Investigate values which deviate from those of similar bolted connections by more than 50 percent of the lowest value.
2. Insulation-resistance values of bus insulation should be in accordance with manufacturer's published data. In the absence of manufacturer's published data, use Table 100.1. Values of insulation resistance less than this table or manufacturer's recommendations should be investigated. Overpotential tests should not proceed until insulation-resistance levels are raised above minimum values.
3. If no evidence of distress or insulation failure is observed by the end of the total time of voltage application during the overpotential test, the test specimen is considered to have passed the test.
4. Minimum insulation-resistance values of control wiring should be comparable to previously obtained results but not less than two megohms.
5. Results of electrical tests on instrument transformers should be in accordance with Section 7.10.
6. Results of ground resistance tests should be in accordance with Section 7.13.
7. Accuracy of meters should be in accordance with Section 7.11.

* Optional

