

RECTIFIER TEST AND SITE EVALUATION FORM

Address		City		CPA #			
Rectifier #		Rectifier Manufacturer		Rectifier Serial #			
Area		Division		District			
Items of Inspection (Check box for all items inspected, leave blank if Not Applicable. Note corrections on log on back of form)		2008	2009	2010	2011	2012	2013
Test Readings	Rectifier						
	AC Volts as found						
	AC Volts as left						
	DC Volts as found						
	DC Volts as left						
	Amps as found						
Amps as left							
Ground Test Readings	Ohms as found						
	Ohms as left						
	Breaker AC disconnect switch?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fusible AC disconnect switch?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fuse size						
	Breaker size						
Pole	Check riser, switch box, and rectifier for AC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Check for continuity between the AC disconnect and the DC riser	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Verify weather head is installed or AC service conduit riser is sealed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Riser nail clips/straps don't exceed 3' spacing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	PVC Schedule 80 service riser free of separations, defects, and securely strapped	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All	Verify AC disconnect switch enclosure is locked	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Verify AC disconnect switch handle is locked "on"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Verify AC disconnect switch handle is capable of being locked in "on" position	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Inspect AC disconnect switch for internal corrosion	<i>Poor / OK</i>					
	Verify ground wire is connected to AC disconnect neutral bus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Verify bonding screw or jumper is installed in AC disconnect neutral bus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Verify bonding screw or jumper and AC disconnect switch box are common	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Validate that the hot leg is fused and that the neutral wire is connected to the neutral bus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All	Verify fuse or circuit breaker in AC disconnect is 10% greater than the maximum amp rating of rectifier or next standard size fuse or breaker (2, 2.5, 3, 5, 7.5, or 15 amp)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Rectifier enclosure locked?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Inspect rectifier for internal corrosion	<i>Poor / OK</i>					
	Verify rectifier input voltage is 120 volts AC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Test rectifier DC output voltage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Test rectifier shunt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Exercise and lubricate variac as appropriate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All	Inspect paint condition of rectifier and AC disconnect switch enclosures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Verify all ground rods are below grade	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Test grounding system and verify ground resistance is at or below 25 ohms or has two ground rods	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	If ground resistance is above 25 ohms, verify integrity of all grounding connections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Install additional rod if resistance is still greater than 25 ohms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Inspect rectifier and AC disconnect switch for any openings or exposed wires	<i>Poor / OK</i>					
	Verify gas distribution sticker is installed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Underground	Verify waterproof AC disconnect switch is installed at subsurface rectifier sites	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Verify that the rectifier case is grounded	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Test for AC on the rectifier case and ground rod	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Check for continuity between the neutral bus and ground rod	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Verify waterproof fuse holder is properly installed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Inspect rectifier case for signs of corrosion or leakage	<i>Poor / OK</i>					
	Inspect gasket for deterioration or debris when replacing rectifier cover	<i>Poor / OK</i>					
RECORDED BY							
DATE (MONTH/DAY)							
REVIEWED BY							
DATE (MONTH/DAY)							

