

Rectifier Test and Site Evaluation

GD&TS 03-2004 FO-11.1-A

Inspector Rectif			Rectifie	ier#			Date	
Address Rectific						Div.		
City CPA			-			12.5		
	y erial #		CPA	Office City				
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		ac Volts as Found ac Volts as Left		dc Volts as Found dc Volts as Left			Amps as Found	
							Amps as Left	
		Ohms as Found			Fusible ac Disconnect Switch?		Fuse Size	
		Ohms as Left		Breaker ac Disconnect Switch?			Breaker Size	
Items of Inspection					Finding Y/N P (poor), OK, or NA	Fixed?	Action Taken	
	Check riser, switch box, and rectifier for ac							
Pole	Check for continuity between the ac disconnect and the dc riser							
	Verify weatherhead is installed or ac service conduit riser is sealed							
	Riser nail clips/straps don't exceed 3' spacing							
	PVC Sch. 80 service riser free of separations, defects, and securely strapped							
All All	Verify ac disconnect switch enclosure is locked							
	Verify ac disconnect switch handle is locked "on"							
	Verify ac disconnect switch handle is capable of being locked in "on" position							
	Inspect ac disconnect switch for internal corrosion Poor/OK							
	Verify ground wire is connected to ac disconnect neutral bus							
	Verify bonding screw or jumper is installed in ac disconnect neutral bus							
	Verify bonding screw or jumper and ac disconnect switch box are common							
	Validate that the hot leg is fused and that the neutral wire is connected to the neutral bus							
	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)							
	Rectifier enclosure locked?							
	Inspect rectifier for internal corrosion Poor/OK							
	Verify rectifier input voltage is 120 volts ac							
	Test rectifier dc output voltage							
	Test rectifier shunt							
	Exercise and lubricate variac as appropriate							
	Inspect paint condition of rectifier and ac disconnect switch enclosures							
	Verify all ground rods are below grade							
	Test grounding system and verify ground resistance is at or below 25 ohms or has two ground rods							
	If ground resistance is above 25 ohms, verify integrity of all grounding connections							
	Install additional rod if resistance is still greater than 25 ohms							
	Inspect rectifier and ac disconnect switch for any openings or exposed wires							
	Verify gas distribution sticker is installed							
Underground	Verify waterproof ac disconnect switch is installed at subsurface rectifier sites							
	Verify that the rectifier case is grounded							
	Test for ac on the rectifier case and ground rod							
	Check for continuity between the neutral bus and ground rod							
	Verify waterproof fuse holder is properly installed							
	Inspect rectifier case for signs of corrosion or leakage							
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Material Redacted GTR0008502

Inspect gasket for deterioration or debris when replacing rectifier cover