

## Underground Rectifier Test and Site Evaluation Form

(Form must be completed in Non-erasable ink)

Record Information								
Address		City			CPA #			
Rectifier #		Rectifier Manufacturer			Rectifier Serial #			
Area		Division			District			
<p><b>Check for AC on all risers, ground connections and Rectifier before starting any work. If AC is found correct immediately, or de-energize Rectifier. Check box for all items inspected and Record AC/DC voltage and DC amperage measurements leave blank if not applicable. Note corrections or changes in Log on back of form. All defective items must be corrected within 30 days, initiate an action plan for items not corrected within 30 days.</b></p>								
Items of Inspection								
<b>AC Voltage</b>	Verify AC Disconnect Switch has been installed ( <i>if not contact Distribution Specialist</i> )					<input type="checkbox"/>	<input type="checkbox"/>	
	Verify Arc Flash & PG&E ID sticker is installed on cap of AC Disconnect Switch					<input type="checkbox"/>	<input type="checkbox"/>	
	Inspect AC disconnect switch for abnormal operating conditions					<input type="checkbox"/>	<input type="checkbox"/>	
	Test Riser, AC Switch, Rectifier case and all ground connections for AC					<input type="checkbox"/>	<input type="checkbox"/>	
	Record AC Voltage ( <i>per Electric Rule 2 could range between 114 VAC – 126 VAC</i> )							
	Verify Fusetron is installed correctly and neutral wire is connected to the neutral bus					<input type="checkbox"/>	<input type="checkbox"/>	
	Record fuse size of Fusetron ( <i>fuse should be rated 10% above the maximum amp rating of rectifier or next highest size</i> )							
<b>Ground Resistance</b>	Goodall 2-wire bus	Verify neutral terminal is common with Rectifier case and ground rod					<input type="checkbox"/>	<input type="checkbox"/>
		Verify cathode terminal is not common with the neutral terminal					<input type="checkbox"/>	<input type="checkbox"/>
	Goodall 3-wire bus	Verify neutral terminal is not common with ground terminal					<input type="checkbox"/>	<input type="checkbox"/>
		Verify ground terminal is common with cathode terminal					<input type="checkbox"/>	<input type="checkbox"/>
		Verify ground terminal is common with Rectifier case and ground rod					<input type="checkbox"/>	<input type="checkbox"/>
	Goodall 8-Bolt top	Verify ground terminal is common with neutral terminal, Rectifier case and ground rod					<input type="checkbox"/>	<input type="checkbox"/>
		Verify cathode terminal is not common with neutral terminal, Rectifier case and ground rod					<input type="checkbox"/>	<input type="checkbox"/>
	Western	Verify ground terminal is common with neutral terminal and ground rod					<input type="checkbox"/>	<input type="checkbox"/>
		Verify ground terminal is not common with cathode terminal					<input type="checkbox"/>	<input type="checkbox"/>
	Universal	Verify ground terminal is common with Rectifier case and ground rod					<input type="checkbox"/>	<input type="checkbox"/>
		Verify cathode terminal is not common with neutral, casing or ground rod					<input type="checkbox"/>	<input type="checkbox"/>
	All	Verify ground rods are below grade and resistance is at or below 25 ohms					<input type="checkbox"/>	<input type="checkbox"/>
		Record Ground Resistance as found ( <i>in ohms</i> )						
		If Ground Resistance is above 25 ohms, verify integrity of all grounding connections					<input type="checkbox"/>	<input type="checkbox"/>
		Ground resistance is above 25 ohms, 2 <sup>nd</sup> ground rod is installed 6' apart					<input type="checkbox"/>	<input type="checkbox"/>
Record Ground Resistance as left ( <i>in ohms</i> )								
<b>Rectifier</b>	Verify cooling oil is clear and casing is filled to top of Rectifier transformer					<input type="checkbox"/>	<input type="checkbox"/>	
	Record Rectifier DC Amps Rating							
	Record Rectifier DC Volts Rating							
	Record Rectifier DC Amps							
	Record Rectifier DC Volts							
<b>Record Review</b>	RECORDED BY ( <i>INITIALS</i> )							
	RECORDED BY ( <i>LAN ID</i> )							
	DATE ( <i>MONTH/DAY</i> )							
	REVIEWED BY ( <i>INITIALS</i> )							
	REVIEWED BY ( <i>LAN ID</i> )							
	DATE ( <i>MONTH/DAY</i> )							

