



Powering Business Worldwide

Eaton Valve Regulated (Sealed) Battery System Preventive Maintenance Scope of Work Attachment R-5

Battery Maintenance of Battery Equipment includes, and is expressly limited to, those tasks set forth below based on IEEE 1188. Due to the size and type of battery, testing and work procedures vary between battery jars above and below 100 watts per battery; work procedures may vary by UPS and battery type and may be limited by safety requirements. All additional work will be billable at the applicable rates per Attachment X-1.

Performed During Each Preventive Maintenance Visit¹:	Below 100W/Jar	100W+/Jar
A. Measure and Record the following:		
1. Individual cell/battery float voltages or overall float voltage	Yes	Yes
2. Charger output current and voltage	Yes	Yes
3. AC ripple current and voltage imposed on the battery	Yes	Yes
4. Internal ohmic values of each cell/battery or perform a continuity test of each cell/battery	No	Yes
5. Connection Resistance of 100% of the inter cell/battery connection	No	Yes
6. Ambient temperature and ventilation status	Yes	Yes
7. Negative terminal temperature of all cells/batteries	No	Yes
B. Visually inspect conditions and appearance of the following:		
1. Connection terminals inter cell/battery connectors, cables and associated hardware	Yes	Yes
2. Cell/battery covers, containers, and post seals	Yes	Yes
3. Battery racks or cabinets and associated components and hardware for structural integrity	Yes	Yes
4. Inspect cleanliness / corrosion of batteries, cabinet, rack and area	Yes	Yes
5. Battery monitoring equipment (if present)	Yes	Yes
6. Cell/battery jar or cover, noting any excessive distortion	Yes	Yes
C. Perform cleaning of all accessible surfaces as required		
	Yes	Yes
D. Performed Once Per Calendar Year:		
The yearly maintenance procedure should include all of the above with the addition of the following:		
1. Measure and record the connection resistance of 100% of the inter cell/battery connections.	No	Yes
2. Refurbish and re-torque any connection where the resistance is above 20% of the average.	No	Yes
E. Reporting Each Preventive Maintenance Visit:		
1. The technician(s) will issue the customer a verbal report summarizing the condition of the battery and identifying any critical issues before leaving the customer's site.	Yes	Yes
2. A detailed report containing all readings and observations will be sent to the customer within five business days.	No	Yes

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