



## GRAVITY POWER SOLUTION

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### UPS BATTERY MAINTENANCE CHECKLIST

#### Comprehensive Preventive Maintenance Checklist for SMF, Tubular & Industrial UPS Battery Banks

<b>Safety &amp; Environment Checks</b> <ul style="list-style-type: none"> <li>Ensure battery room is clean, dry, and well ventilated.</li> <li>Confirm ambient temperature is within 20–25°C.</li> <li>Check for absence of open flames or sparks near batteries.</li> <li>Verify availability of PPE (gloves, goggles)</li> <li>Ensure proper battery room signage and restricted access.</li> </ul>	<b>Visual Inspection Check</b> <ul style="list-style-type: none"> <li>Battery Containers for Cracks or Leakage.</li> <li>Inspect Batteries for Swelling or Bulging</li> <li>Ensure Battery Racks Are Rust-Free and Stable</li> <li>Check Intercell Connectors for Discoloration</li> <li>Verify Labels and Polarity Markings Are Clearly Visible.</li> </ul>
<b>Battery Electrical Checks</b> <ul style="list-style-type: none"> <li>Measure individual battery block voltage.</li> <li>Record string voltage and compare with design value.</li> <li>Check voltage imbalance between battery blocks.</li> <li>Measure float charging voltage at UPS.</li> <li>Verify boost/equalize charge settings.</li> </ul>	<b>Connection &amp; Terminal Checks</b> <ul style="list-style-type: none"> <li>Inspect battery terminals for corrosion.</li> <li>Clean terminals using approved solution if required.</li> <li>Ensure all terminal bolts are properly tightened</li> <li>Check lug condition and cable insulation.</li> <li>Verify no loose or overheated connections.</li> </ul>
<b>Battery Health &amp; Performance Measure</b> <ul style="list-style-type: none"> <li>internal resistance or conductance if applicable. Check</li> <li>battery temperature consistency across string.</li> <li>Identify weak or underperforming battery blocks.</li> <li>Verify battery backup time during controlled test.</li> <li>Check battery age against expected service life.</li> </ul>	<b>Charging &amp; UPS Interaction</b> <ul style="list-style-type: none"> <li>Verify UPS charger current stability.</li> <li>Check charger ripple current levels.</li> <li>Confirm automatic return to float mode after discharge.</li> <li>Verify charging alarms and protection settings</li> </ul>
<b>Housekeeping &amp; Safety</b> <ul style="list-style-type: none"> <li>Ensure battery tops are clean and dust-free</li> <li>Confirm no tools or metal objects left on batteries</li> <li>Check floor insulation mats condition</li> <li>Verify emergency exit accessibility.</li> </ul>	<b>Documentation &amp; Reporting</b> <ul style="list-style-type: none"> <li>Record all battery voltage and temperature readings.</li> <li>Note weak batteries and replacement recommendations.</li> <li>Update battery maintenance logbook.</li> <li>Prepare preventive maintenance service report.</li> <li>Obtain client acknowledgment and next visit date</li> </ul>



Presented By

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