



Full Service Maintenance For DC Plants

Scope Of Work

- Includes travel, on site labor, and mileage for Rectifier and Control unit breakdowns , 7 days/week, 24 hours/day
- Includes one annual, and one semi annual, rectifier and control unit preventive maintenance service, scheduled at the customer's convenience (excluding Public holidays).
- Includes 100% parts coverage for rectifier and control unit
- Includes 4 preventive maintenance visits on the battery system for up to 2 strings of VRLA batteries.
- Repairs and corrective maintenance for the battery system is not covered, but provided at discounted rates.
- Subject to all Terms & Conditions as noted in the 24/7 Technology Maintenance Agreement.

DC Plant Preventive Maintenance – Detailed Check List

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| 1. Measure room ambient temp and check ventilation. | 9. Check calibration of meters |
| 2. Measure and record AC input voltage | 10. Check rectifiers for load sharing |
| 3. Measure and record DC output voltage | 11. Verify proper alarm functions* |
| 4. Measure and record AC ripple voltage | 12. Verify integrity of fuses |
| 5. Measure and record DC current | 13. Remove one rectifier module and verify redundancy* |
| 6. Measure and record output KW | 14. Identify any loose connections and correct as necessary |
| 7. Estimate redundancy remaining in plant. | 15. Check operation of fans |
| 8. Check continuity of battery racks to ground | 16. Clean unit |
- * Where possible

Battery Preventive Maintenance – Detailed Check List

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| 17. Perform safety evaluation of battery, racks, protective equipment and environment. Note and report any discrepancies. | 21. Measure and record the full string charging voltage and current. |
| 18. Record the ambient temperature of the battery room. | 22. Measure and record the AC ripple voltage and current. |
| 19. Clean normal cell dirt/dust accumulation. Note: some environments may not allow for practical management of dust accumulation. | 23. Measure and record the voltage to ground for each string/cabinet. |
| 20. Inspect each jar for signs of cracks, excessive bulging and leakage. | 24. Measure and record the float voltage across each cell/jar. |
| | 25. Measure and record the conductance of each cell /jar. |
| | 26. Check for corrosion on battery terminals and connectors. Clean as necessary. |