Solutions for NERC PRC-005-2 Compliance

Eagle Eye Power Solutions provides battery monitoring solutions to power utilities worldwide. NERC (North American Electric Reliability Corporation) is a not-for-profit regulatory authority that ensures the reliability of the BES by enforcing reliability standards. NERC PRC-005 is the standard for Protection Systems Maintenance and Testing. PRC-005-2 requires utilities to document and implement programs for the maintenance of all protection systems affecting the reliability of the Bulk Electric System (BES).

NERC PRC-005-2 - Table 1-4(f)  
“Exclusions for Protection System Station DC Supply Monitoring Devices and Systems”  
*Maximum Maintenance Interval: No periodic maintenance specified

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<tr>
<th>NERC Requirement Attributes / Eagle Eye Solution</th>
<th>Maintenance Activities</th>
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| Any station dc supply with high and low voltage monitoring and alarming of the battery charger voltage to detect charger overvoltage and charger failure.  
  • BQMS: Monitors String Voltage | No periodic verification of station dc supply voltage is required. |
| Any battery based station DC supply with electrolyte level monitoring and alarming in every cell.  
  • ELM-Series: Monitors Electrolyte Level | No periodic inspection of the electrolyte level for each cell is required. |
| Any station dc supply with unintentional DC ground monitoring and alarming.  
  • GFM-100: Monitors for DC Grounds | No periodic inspection of unintentional DC grounds is required. |
| Any station DC supply with charger float voltage monitoring and alarming to ensure correct float voltage is being applied on the station DC supply.  
  • BQMS: Monitors String Voltage | No periodic verification of float voltage of battery charger is required. |
| Any battery based station DC supply with monitoring and alarming of battery string continuity.  
  • BQMS: Monitors String/Cell Voltage & Cell Internal/Connection Resistance | No periodic verification of the battery continuity is required. |
| Any battery based station DC supply with monitoring and alarming of the intercell and/or terminal connection detail resistance of the entire battery.  
  • BQMS: Monitors Cell Internal & Connection Resistance | No periodic verification of the intercell and terminal connection resistance is required. |
| Any Valve Regulated Lead-Acid (VRLA) or Vented Lead-Acid (VLA) station battery with internal ohmic value or float current monitoring and alarming, and evaluating present values relative to baseline internal ohmic values for every cell/unit.  
  • BQMS: Monitors DC Current, & Internal Ohmic Values for all Battery Types | No periodic evaluation relative to baseline of battery cell/unit measurements indicative of battery performance is required to verify the station battery can perform as manufactured. |
| Any Valve Regulated Lead-Acid (VRLA) or Vented Lead-Acid (VLA) station battery with monitoring and alarming of each cell/unit internal ohmic value.  
  • BQMS: Monitors Ohmic Value of Each Cell | No periodic inspection of the condition of all individual units by measuring battery cell/unit internal ohmic values of a station VRLA or Vented Lead-Acid (VLA) battery is required. |