Battery Regeneration Test Plan

Test Battery : AGM Type Battery for UPS

- 10 terminals, 12V 100A, (Narada)
- 10 terminals, 12V 105A, (FIAMM)

Test Period : 3 days

Test Procedure

1. Physical Inspection
   - ✓ Checking whether the battery is badly damaged and broken in appearance and it has a trace to the electrolyte flows through the broken gap.
2. Checking Battery Status by Battery Checker
   - ✓ Battery Voltage
   - ✓ Internal Resistance (Standard: approx. 6.31 m Ohm)
     - ⇨ Classify A, B and C Group depending on Battery Status
     - ⇨ C Group batteries would be excluded for Initial Battery Test
       - ● Charging & full Discharging cycle test will be required for C Group Battery before trying to regenerate, because it has high possibility for them to be damaged inside.
3. Select one battery for Sample Test and preparation for Regeneration Test
   - ✓ To prove and check battery characteristic and Regenerating & Charging curve based on Battery Specification Sheet.
   - ✓ Discharging for A and B Group Battery to erase existing memory effect of the batteries.
4. Select 3 or 4 batteries from each brand and Regenerate
   - ✓ To regenerate 3 or 4 battery simultaneously.(same brand and same voltage & ampere)
     - ⇨ Approx. 10 to 15 hours depending on battery pattern.
5. Constant current Discharging Test (Finalizing Test)
   - ✓ Narada : 5Hours, Cutting Voltage 10.5V, discharging current 18.5 A
   - ✓ FIAMM : 3Hours, Cutting Voltage 10.5V, discharging current 28.4 A
     - ⇨ More than 80% of design discharging time will be qualified for more than 1 year using.
6. Charging again_ option (if it has time within limited period)