



**Generator
Reliability
Inspection
Program
(GRIP®)
Level-1**

Generator Reliability Inspection Program (GRIP®), Level-1
12 Hour Assessment (to fit "engine borescope")

Inspection/Tests Performed:

- Visual and Borescope inspection of stator windings, rotor windings, associated blocking (as accessible), stator core step iron, and finger-plates.
- Perform tests of Resistance Temperature Detectors (RTDs), stator windings, and rotor windings.
- Stator Winding Tests: Insulation Resistance, Polarization Index and Copper Resistance.
- Rotor Winding Tests: Insulation Resistance, Polarization Index, Copper Resistance and AC Impedance.
- Exciter Inspection: Visual inspection and Insulation Resistance testing performed on many brands of generators.

Benefits:

- Reveals pending faults in windings of the stator, rotor, and exciter.
- Reveals aging and associated deterioration of all major generator components – stator windings, stator core iron, rotor, and exciter.
- Establishes a "base line" for evaluating future inspections and input for establishing planned major maintenance activities.

Final Report:

- Standardized format provided electronically (CD or electronic mail).
- Photographs of critical areas in the generator as accessible.
- Summary of all insulation tests and inspections performed.
- Generator Reliability Assessment & Diagnostic Evaluation (GRADE®) provided with every GRIP®.

Any Anomalies Reported Immediately, with the Final Report Submitted within 10-Days.

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