That proceedures used by ANAD con cupy quier to Bill Huellesen L. E 10-7-87

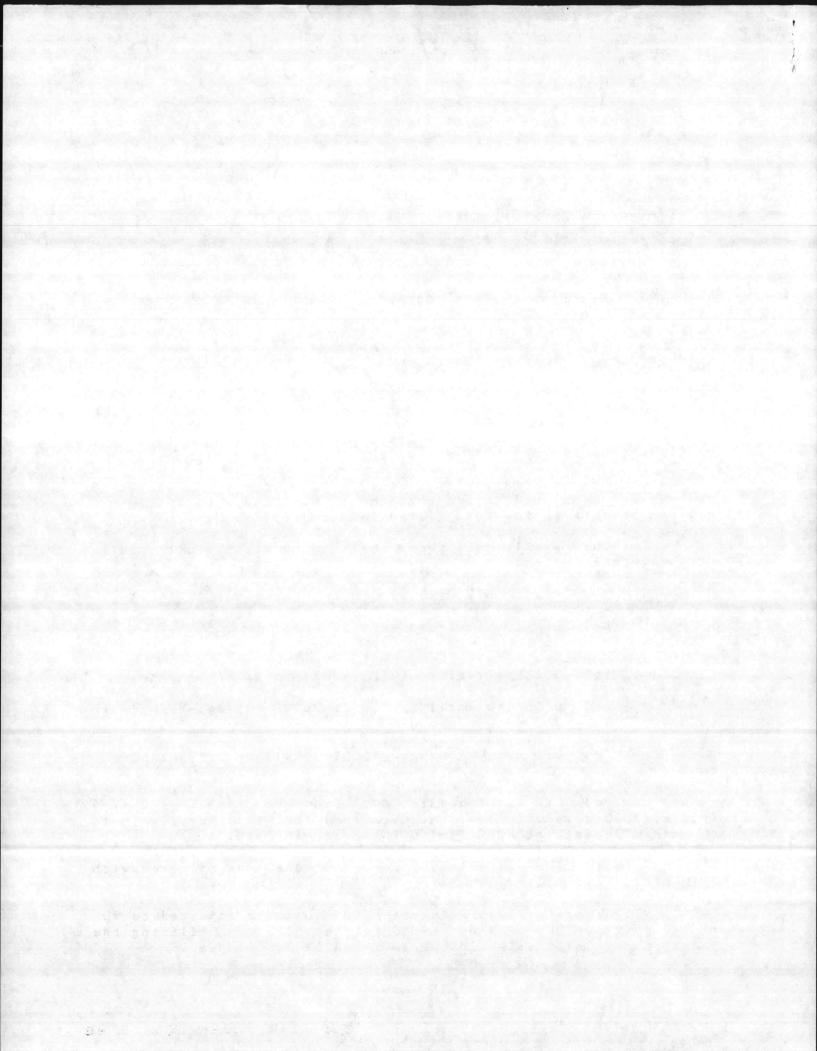
TEST PROCEDURE FOR BENDIX GENERATOR (650 Amp)
FOR MI TANK (P/N 12273135)
(Code B)

1. Test Conditions.

- a. Unless otherwise specified, each test shall be made under the following conditions:
 - (1) Test shall be run in the order indicated.
- (2) Rotation of the Generator shall be clockwise when viewed from the anti-drive end.
- (3) Voltage regulator, part number 12273246-1, shall be used for the test in paragraph 4.
- (4) Use batteries (6TN or equivalent) for test performed in paragraph 4.
- (5) "VPOR" indicates "voltage at point of regulation. VPOR shall be 28 +/- 0.75 volt DC for test in paragraph 4.
- (6) "LA" indicates "line amps". Line amps are measured on the ammeter connected to output terminal B. Line amps shall be 650 +/-10 amperes for test listed in paragraph 4.
- (7) During all tests there shall be no visible oil leakage from external surfaces.
 - (8) Supply oil (MIL-L-23699) to the generator as follows:
- (a) Oil In Temperature (OIT) shall be 225°F +/-
 - (b) Oil In Pressure (OIP) shall be 12 +/~ 1 psig.
- (c) Oil flow shall be 2.85 to 6.00 gallons-per-minute (GPM).
- (d) Oil Out Temperature (OOT) shall be 325°F maxi-
- (e) Oil Out Pressure (OOP) from pump shall be 40 + / 4 psig at 2000 revolutions-per-minute (rpm) and will increase (not to exceed 90 psig at 8000 rpm) with increasing rpm.
- (f) The oil into the generator shall be filtered with a 40 micron oil filter.
- (9) Generator Case Pressure (GCP) shall be adjusted to 70 \pm 10 psig at 2000 and 150 \pm 10 psig at 8000 rpm utilizing the pressure regulator valve in the self-contained oil pump.

man at a

S.9



- 2. Field Resistance Test. Using a digital multimeter, measure the field resistance between terminals A and C on the J2 connector with the Generator not operating.
- 3. Hookup.
- a. Mount the Generator on drive stand with longitudinal axis in a horizontal position. The longitudinal axis is an imaginary line running thru the center of the armature from drive end to anti-drive end.
- b. Connect oil supply, pump, meters, filters, pressure regulators, pressure gages and temperature gages.
 - c. Install a gage to monitor Generator Case Pressure (GCP).
 - d. Connect a set of bateries to output terminals B and E.
 - e. Connect voltage regulator, relay, load bank and meters.
- 4. Operational Test.
- a. Verify proper oil flow and pressures when operating Generator at 2000 rpm. Check Generator Case Pressure (GCP) and adjust if necessary and insure proper oil flow.
- b. Operate Generator at 2400 rpm and 500 amps load for 5, 11, 0 minutes and record vpoR and LA. vpoR and LA shall be 28 +/- 0.75 volts DC and 500 +/- 10 amperes respectively. Current output shall be 4.25 amps or less. Check GCP.
- c. Operate Generator at 8000 rpm and 650 amps load for 10, ± 1 , ± 0 minutes and record VPOR and LA. VPOR and LA shall be 28 ± 1 0.75 volts DC and 650 ± 1 10 amperes respectively. Current output shall be 3.15 amps or less. Check GCP and adjust if necessary and insure proper oil flow.

