

GENERATOR



JOB NO. 620606 ITEM NO. TG-200  
PAGE 11 OF 12

REQUISITION NO. \_\_\_\_\_

PURCHASE ORDER NO. \_\_\_\_\_

INQUIRY NO. 0301-4-670606

BY TRD DATE 4-22-87 REV. NO. D

APPLICABLE TO: ☐ PROPOSAL ☒ PURCHASE ☐ AS-BUILT

FOR \_\_\_\_\_

SITE \_\_\_\_\_

Generator Operating Conditions

12222 KVA 11000 KW 0.9 P.F. 1800 RPM  
4160 Volts 3 Phase 60 Cycles

Duty: ☒ Continuous ☐ Intermittent ☐ Standby

Location: ☒ Indoor ☒ Heated ☐ Under Roof  
☐ Outdoor ☐ Un-heated ☐ Partial Sides  
☐ Grade ☒ Mezzanine  
☐ Winterization Req'd. ☐ Tropicalization Req'd.

Generator Construction

Type: ☒ Sync. ☐ Induction

No. of Poles ☒ Type of Poles: ☒ Salient ☐ Non-Salient

No. of Leads \_\_\_\_\_ Winding Connection: ☐ Delta ☐ Wye

Insulation Class: Standard Class F ☐ Other \_\_\_\_\_

Temperature: 40°C Standard ☐ Other \_\_\_\_\_

Temperature Rise: 80 °C

Parallel Operation: ☐ Yes ☒ No

Enclosure: TEWAC ☒ Open Dripproof \_\_\_\_\_

Temperature Detectors: 6 STATOR WINDINGS & 2 EACH BEARING

Excitation: ☒ 100 OHM PLATINUM  
☐ Rotating Brushless

Permanent Magnet Generator: ☒ Yes ☐ No

Telephone Influence Factor: ☒ Standard ☐ Special

Space Heaters: ☐ No ☒ Yes 460 Volts

Surge Capacitors: ☒ Yes ☐ No

Surge Arrestors: ☒ Yes ☐ No

Motor Starting Requirement \_\_\_\_\_

APPLICABLE STANDARDS & SPECIFICATIONS:  
NEEA SM24-1985  
SP. 620606-43-01



DATA SHEET

## SYNCHRONOUS GENERATORS

CONTRACT NO. 620606  
 ITEM NO. TG-200  
 REV. D DATE 4-22-87  
 BY RJJ REVIEWED \_\_\_\_\_  
 SHEET 11B OF 12  
 P.O. NO. 620606-4-0301

## SHORT-TIME CAPABILITY (PER NEMA SM-12/SM-13):

TIME	ARM. CUR.
<input type="checkbox"/> _____ Sec.	_____ %
<input type="checkbox"/> _____ Sec.	_____ %
<input type="checkbox"/> _____ Sec.	_____ %
<input type="checkbox"/> _____ Sec.	_____ %

## AUXILIARY REQUIREMENTS:

- COOLING WATER:  
 \_\_\_\_\_ Fresh \_\_\_\_\_ Seawater ☒ Other COOLING TOW.  
 Supply Press. 40 PSIG Design 80 PSIG  
 Supply Temp. 82 °F Max. Return 150 °F
- INSTRUMENT AIR SUPPLY:  
 Press. 80 MIN, 100 NOR, 150 PSIG Temp. \_\_\_\_\_ °F
- CONTROL CURRENT: DES.  
 D.C. Volts 125 Source Battery  
 A.C. Volts 120 Phase 1 Hz 60
- ELECTRIC POWER:  
 \_\_\_\_\_ HP To \_\_\_\_\_ HP Volts 460 Ph 3 Hz 60  
1/2 HP & Less \_\_\_\_\_ Volts 120 Ph 1 Hz 60
- AUXILIARY MOTOR ENCLOSURE:  
☐ TEFC ☐ Exp. Proof ☒ Drip Proof ☐ Open  
☐ Other \_\_\_\_\_
- Insulation Class F
- Electrical Area Class \_\_\_\_\_ Group \_\_\_\_\_ Div. \_\_\_\_\_  
UNCLASSIFIED

## TOTAL UTILITY CONSUMPTION:

- ☒ COOLING WATER:  
 Air Cooler(s) 205 GPM t.S.O. Cooler(s) \_\_\_\_\_ GPM
- ☐ Instrument Air \_\_\_\_\_ SCFM
- ☐ Oil Heater: \_\_\_\_\_ KW \_\_\_\_\_ Volts \_\_\_\_\_ Ph \_\_\_\_\_ Hz
- ☐ Space Heater: 3 KW 240 Volts 3 Ph 60 Hz
- † ☐ Main S.O. Pump Motor \_\_\_\_\_ KW
- † ☐ Aux. S.O. Pump Motor \_\_\_\_\_ KW

## TIE-IN EQUIPMENT:

- Differential Current Transformers LOCATION  
GEN TERM. BOX
- Relay Current Transformers \_\_\_\_\_
- Cross Current Current Transformers \_\_\_\_\_
- Surge Capacitors \_\_\_\_\_
- Lighting Arresters \_\_\_\_\_
- Potential Transformers \_\_\_\_\_
- Cables: Rated for 5000 Volts

## MATERIALS OF CONSTRUCTION:

- ☐ Stator Core \_\_\_\_\_
- ☐ Rotor \_\_\_\_\_
- ☐ Collector Rings \_\_\_\_\_
- ☐ Shaft Seals \_\_\_\_\_

## SHAFT:

- ☐ Diameter @ Exciter/Collector Rings (in.) \_\_\_\_\_
- ☐ Diameter @ Coupling (in.) \_\_\_\_\_
- ☐ Shaft End: ☐ Tapered ☐ Cylindrical

## SHAFT SEALS:

- ☐ Type \_\_\_\_\_
- ☐ Seal System Type \_\_\_\_\_
- ☐ Buffer System Req'd.: ☐ Start-up ☐ Continuous
- ☐ Type Buffer Gas \_\_\_\_\_

## ROTOR INERTIA:

- ☐ WK<sup>2</sup> \_\_\_\_\_ Lb-Ft<sup>2</sup>

## VIBRATION DETECTORS:

- Type PROXIMITY ☐ Model \_\_\_\_\_
- Mfr BENTLEY NEVADA
- No. at Each Shaft Bearing 2 Total No. 4
- Oscillator-Demodulators Supplied By \_\_\_\_\_
- Mfr \_\_\_\_\_ ☐ Model \_\_\_\_\_
- Monitor Supplied By DELAVAL
- Location \_\_\_\_\_ Enclosure PANEL
- Mfr BENTLEY NEVADA ☐ Model \_\_\_\_\_
- ☐ Scale Range \_\_\_\_\_ ☐ Alarm: ☐ Set @ \_\_\_\_\_ Mils
- ☐ Shutdown: ☐ Set @ \_\_\_\_\_ Mils ☐ Time Delay \_\_\_\_\_ Sec.

## AXIAL MOVEMENT DETECTOR:

- ☐ Type \_\_\_\_\_ ☐ Model \_\_\_\_\_
- ☐ Mfr \_\_\_\_\_ ☐ No. Req'd. \_\_\_\_\_
- ☐ Oscillator-Demodulators Supplied By \_\_\_\_\_
- ☐ Mfr \_\_\_\_\_ ☐ Model \_\_\_\_\_
- ☐ Monitor Supplied By \_\_\_\_\_
- ☐ Location \_\_\_\_\_ Enclosure \_\_\_\_\_
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- ☐ Shutdown: ☐ Set @ \_\_\_\_\_ Mils ☐ Time Delay \_\_\_\_\_ Sec.

## BEARING HOUSING CONSTRUCTION:

- ☐ Type (Separate, Integral) \_\_\_\_\_ Split ☒
- ☐ Material \_\_\_\_\_
- Insulation Req'd. yes ☐ Material \_\_\_\_\_

## RADIAL BEARINGS:

- ☐ Type \_\_\_\_\_ Span (in.) \_\_\_\_\_
- ☐ Area (in.<sup>2</sup>) \_\_\_\_\_ Loading (psi): Act. \_\_\_\_\_ Allow. \_\_\_\_\_

## THRUST BEARING:

- ☐ Location \_\_\_\_\_ Type \_\_\_\_\_
- ☐ Mfr \_\_\_\_\_ Area (in.<sup>2</sup>) \_\_\_\_\_
- ☐ Loading (psi): Actual \_\_\_\_\_ Allowable \_\_\_\_\_

**FLUOR**  
DATA SHEET  
**SYNCHRONOUS GENERATORS**  
(Cont'd)

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SHEET 11C OF 12  
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<p><b>ENCLOSED COLLECTOR RINGS:</b></p> <p><input type="radio"/> Purged: Medium _____ Press _____ PSIG</p> <p><input type="radio"/> Explosion-Resistant Non-Purged</p> <p><input type="radio"/> Forced Ventilation</p> <p><input type="checkbox"/> CFM _____ Press Drop _____ In. H<sub>2</sub>O</p> <p><b>BEARING TEMPERATURE DEVICES:</b></p> <p>■ Type: <input checked="" type="checkbox"/> R.T.D. _____ Thermocouple _____ Thermistor</p> <p>■ Location: _____ Ea. Pad _____ Every Other Pad <u>2 PER BEARING</u></p> <p><input type="checkbox"/> Set @ _____ °F for Alarm _____ °F for Shutdown</p> <p><b>SPACE HEATERS:</b></p> <p><input type="checkbox"/> _____ KW <input type="checkbox"/> _____ Volts _____ Phase _____ Cycles</p> <p><input type="radio"/> Max. Sheath Temp. _____ °F</p> <p><b>WINDING TEMPERATURE DETECTORS</b></p> <p><input type="radio"/> Thermistors: No./Phase _____</p> <p><input type="radio"/> Type: _____ Pos. Temp. Coeff. _____ Neg. Temp. Coeff.</p> <p><input type="radio"/> Temperature Switch &amp; Indicator by: _____ Purchr. _____ Mfr.</p> <p>● Resistance Temperature Detectors: No./Phase <u>2</u></p> <p><input type="radio"/> Resistance Matl. _____ <input type="checkbox"/> _____ OHMS</p> <p>● Selector Switch &amp; Indicator By: <input checked="" type="checkbox"/> Purchr. _____ Mfr. <u>DELAVAL</u></p> <p><input type="radio"/> Thermocouples: No./Phase _____</p> <p><input type="radio"/> Selector Switch &amp; Indicator By: _____ Purchr. _____ Mfr.</p> <p><input type="checkbox"/> Max. Stator Winding Temps. _____ °F for Alarm _____ °F for Shutdown</p> <p><b>HUMIDITY DETECTOR:</b></p> <p><input type="checkbox"/> Model _____</p> <p><input type="checkbox"/> Set @ _____ °F for Alarm _____ °F for Shutdown</p> <p><b>LEAK DETECTOR:</b></p> <p><input type="checkbox"/> Model _____</p> <p><input type="checkbox"/> Set @ _____ for Alarm _____ for Shutdown</p> <p><b>COUPLING</b></p> <p>● Mount 1/2 Coupling      ● Type <u>DIAPHRAGM</u></p> <p><input checked="" type="checkbox"/> Mfr <u>KOP-FLEX</u></p> <p><input checked="" type="checkbox"/> Spacer Req'd <u>YES</u></p> <p>● Coupling Furnished By <u>DELAVAL</u></p> <p><input type="checkbox"/> Keyed (1) or (2); or Hydr. Fit _____</p> <p>Generator Shaft: _____ Taper _____ Cylindrical</p> <p>Driver Shaft: _____ Taper _____ Cylindrical</p> <p>Coupling Guard: _____ Mfr. Std. _____ Other _____</p> <p><b>CONNECTIONS:</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SERVICE</th> <th>NO.</th> <th>SIZE</th> <th>ANSI RATING</th> <th>FACING</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> Lube Oil Inlet</td> <td>2</td> <td>3/4"</td> <td>150#</td> <td>R.F.</td> </tr> <tr> <td><input checked="" type="checkbox"/> Lube Oil Outlet</td> <td>2</td> <td>1 1/2"</td> <td>150#</td> <td>R.F.</td> </tr> <tr> <td><input type="checkbox"/> Seal Oil Inlet</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/> Seal Oil Outlet</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> Cooling Water Inlet</td> <td>2</td> <td>2 1/2"</td> <td>150#</td> <td>R.F.</td> </tr> <tr> <td><input checked="" type="checkbox"/> Cooling Water Outlet</td> <td>2</td> <td>2 1/2"</td> <td>150#</td> <td>R.F.</td> </tr> <tr> <td><input type="checkbox"/> Purge for:</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>    Brg. 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By: _____ Vendor <input checked="" type="checkbox"/> Purchr. _____ Other <u>FLUOR</u></p> <p><b>SHOP INSPECTION AND TESTS:</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>REQ'D</th> <th>WITNESS</th> </tr> </thead> <tbody> <tr><td>● Shop Inspection</td><td align="center"><input checked="" type="checkbox"/></td><td align="center"><input checked="" type="checkbox"/></td></tr> <tr><td><input type="radio"/> Hydrostatic Piping</td><td align="center"><input type="checkbox"/></td><td align="center"><input type="checkbox"/></td></tr> <tr><td>● Hydrostatic Cooler(s)</td><td align="center"><input checked="" type="checkbox"/></td><td align="center"><input type="checkbox"/></td></tr> <tr><td><input type="radio"/> Rotor Balance: _____ Vacuum Pit _____ Std.</td><td align="center"><input type="checkbox"/></td><td align="center"><input type="checkbox"/></td></tr> <tr><td>● Mechanical Run: <input checked="" type="checkbox"/> W/Job Cplg. 1/2</td><td align="center"><input checked="" type="checkbox"/></td><td align="center"><input checked="" type="checkbox"/></td></tr> <tr><td>● Gen. 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**WEIGHTS:**

- ☐ Generator 76,000 lbs.  
☐ Rotor 17,240 lbs.  
† ☐ S.O. Console \_\_\_\_\_ lbs.  
☐ Max. for Maintenance (Identify) Rotor 17,240 lbs.  
☐ Total Shipping Weight \_\_\_\_\_ lbs.

**SPACE REQUIREMENTS:**

- ☐ Complete Unit: L \_\_\_\_\_ in. W \_\_\_\_\_ in. H \_\_\_\_\_ in.  
☐ Control Panel: L \_\_\_\_\_ in. W \_\_\_\_\_ in. H \_\_\_\_\_ in.  
† ☐ S.O. Console: L \_\_\_\_\_ in. W \_\_\_\_\_ in. H \_\_\_\_\_ in.

**MISCELLANEOUS:**

- ☐ Vendor's Review & Comments on Purchaser's  
Piping & Foundation  
☐ Optical Alignment Flats Required on Generator  
☐ Provisions for Field Balancing  
☐ Shipping Bearings Required  
☐ Frequency Controller Required  
\_\_\_\_ By Purchaser \_\_\_\_ By Vendor \_\_\_\_ By Other

**SHIPMENT:**

- ☒ Domestic  
☐ Export ☐ Export Boxing Req'd  
☐ Outdoor Storage Over 6 Months  
☐ Waterproof Boxing Req'd

**EXCITER & VOLTAGE REGULATOR**

**OPERATING CONDITIONS:**

- Rating:  
☐ \_\_\_\_\_ KW ☐ \_\_\_\_\_ Volts ☐ \_\_\_\_\_ Amps  
☒ Automatic Voltage Regulation (±%)  
Steady State \_\_\_\_\_ Transient \_\_\_\_\_  
☐ Manual Voltage Regulation  
\_\_\_\_\_ % to \_\_\_\_\_ % of Rated Voltage @ Rated Load

- ☐ Type Unit: ☒ Static ☒ Rotating Brushless  
☒ Permanent Magnet Generator (PMG)  
☐ Cooling Medium: \_\_\_\_\_ Air \_\_\_\_\_ Hydrogen \_\_\_\_\_ Water  
\_\_\_\_\_ Direct-Cooled \_\_\_\_\_ Indirect-Cooled  
☒ Insulation Class F (55 54)

**TEMPERATURE RISE:**

- ☒ Maximum above 104 °F:  
☐ Exciter \_\_\_\_\_ °F By \_\_\_\_\_  
☐ Rectifier Units \_\_\_\_\_ °F By \_\_\_\_\_

**CHARACTERISTICS:**

- ☐ Exciter Constant Rel. to Self-Excited Field \_\_\_\_\_  
☐ Exciter Ceiling \_\_\_\_\_ Volts \_\_\_\_\_ KW  
☐ Exciter Time Constant \_\_\_\_\_ Sec.  
☐ Exciter Response Ratio \_\_\_\_\_  
☐ Exciter Saturation @ 1.0 Exciter Output Voltage \_\_\_\_\_  
☐ Exciter Saturation @ .75 Exciter Output Voltage \_\_\_\_\_

**INSTRUMENTATION:**

- ☒ Under Frequency Protection Req'd  
☐ Exciter Field Ammeter & Shunt  
☒ Exciter Field Switch TRANSFER  
☐ Variable Transformer  
☒ Voltage Adjust Rheostats

**GENERATOR CURRENT @ RATED LOAD:**

- ☐ Field \_\_\_\_\_ AMPS  
☐ Terminal \_\_\_\_\_ AMPS

**VOLTAGE REGULATOR:**

- ☐ \_\_\_\_\_ Volts  
☐ Type Unit ☐ Static ☐ Mechanical  
☐ Time Constant \_\_\_\_\_ Sec.  
☐ Input-Filter Time Constant \_\_\_\_\_ Sec.  
☐ Stabilizing Circuit Time Constant \_\_\_\_\_ Sec.  
☐ Amplifier Time Constant \_\_\_\_\_ Sec.  
☐ Gain \_\_\_\_\_  
☐ Stabilizing Circuit Gain \_\_\_\_\_

**TIE-IN EQUIPMENT:**

**LOCATION**

- ☒ Surge Capacitors \_\_\_\_\_  
☒ Lightning Arresters \_\_\_\_\_  
☒ Potential Transformers \_\_\_\_\_  
☒ Current-Voltage Transformers \_\_\_\_\_  
☒ Saturable Current Transformers \_\_\_\_\_

☒ Cables: Rated for 5000 Volts  
3-750 MCM Per Phase

**REMARKS:**