



SUBMITTAL DATA

EMERGENCY GENERATOR AND RELATED EQUIPMENT

FOR INSTALLATION AT

901 Washington Ave
Portland, Maine

MCPS PROJECT NO: PS06-784
ENGINE #: E19327

REQUESTED BY

ES Boulos

PROPOSED BY

Exit 7, I-89, Route 103 East
Warner, 03278

SALES REPRESENTATIVE: Mike Gilbert 603-746-8709
PROJECT MANAGER: Tom Stanley 603-746-8732
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9/22/2006

VERSION - 1.0

GENERATOR SUBMITTAL FOR: Record

9/22/2006

MiltonCAT Power Systems

Bill of Material for MCPS job PS06-784

Project: 901 Washington Ave

Quantity of (1) UL2200 Listed and CSA Certified Caterpillar Model G30F3, 30 ekW, Standby Rated, 3PH 208/120v, Natural Gas Generator Set

Each generator to include the following:

1.1 Ford ESG642 Gas Engine

- 30 ekW, 37 KVA Continuous/Standby Rating at 1800 RPM
- 6 cylinder, 4.2 Liter, 4-cycle
- Caterpillar integral eng. Governor & fuel mixer, installed
- Lube oil system including pump, filters, cooler, and drain piped to the edge of the base frame
- Initial fill of lube oil and coolant
- Fuel supply shutoff solenoid
- Standard duty dry type air cleaner assembly with service indicator
- 12 VDC electric starting motor
- 55 amp battery charging alternator
- Engine driven jacket water pump
- Engine Jacket Water Coolant Heater 1500W at 120 VAC

1.2 Caterpillar Generator

- 120/208 VAC, 60 Hz, 1800 RPM 4 Pole
- LL1014S frame
- Self Excitation System
- Single Bearing Closed Coupled to Engine
- Open Drip Proof Construction
- Caterpillar R230 Voltage Regulator
- 150°C / 40°C ambient temp rise
- Class H generator insulation
- ABB Make, UL Listed Mainline Circuit Breaker rated at 100 Amps

1.3 Caterpillar Electronic Modular Control Panel

- EMCP 3.2 Model
- LCD Display
- AC Metering: volts, amps, frequency Push buttons for Run, Auto, Stop with LED indicators
- DC Metering: battery volts, engine hours run, engine jacket water temperature, lube oil pressure, engine speed
- Volt free contacts for genset running
- Two (2) LED status indicators (1 red shutdown, 1 amber warning)
- Run button and LED indicator
- Auto button and LED indicator
- Stop button and LED indicator
- Lamp test button
- Alarm acknowledgement button
- Menu navigation buttons
- Engine and AC metering shortcut buttons

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- Lock down emergency stop push button
- Voltage adjust potentiometer
- **Alarms:**High engine temperature, Low/High battery voltage, Underspeed/Overspeed, Loss of engine speed,
- **Shutdowns:**Fail to start, Low oil pressure shutdown, Low Coolant Level

1.4 Quantity of one (1) ***Caterpillar*** Light Remote Annunciator Module

- 12 Volts DC
- Alarm panel with selectable red, yellow, or green colored LED's, alarm horn, lamp test and alarm silence buttons.
- Shipped Loose for Customer Installation
- Suitable for Surface mount
- Requires J1939 Twisted Sheilded Cable for Connecton to Generator Control Panel - To Be Provided by Others

1.5 Quantity of one (1) ***Caterpillar*** Engine Battery Set

- 12 VDC Battery
- 92 Cold Cranking Amps
- 780 Amp Hrs
- Battery Racks integral to base frame
- Battery cables

1.6 Quantity of one (1) ***Caterpillar*** 12 VDC Engine Battery Charger

- Model PBC3UL
- 120 VAC Input
- DC Voltmeter and Ammeter

1.7 Quantity of one (1) ***Caterpillar*** Weatherproof Enclosure

- 14 Ga. Powder coated steel construction
- Four (4) point base lift plates
- Enclosure color: White
- Canopied Silencer System mounted inside enclosure with stainless steel flexible exhaust connector

1.8 Quantity of one (1) ***ASCO*** Automatic Transfer Switch

- 300 Series
- **Switch 1:** 150A, 3PH 120/208v, 3 pole, 60 Hz
- NEMA 1 Enclosure suitable for indoor installation
- UL 1008 listed to 480 VAC for total system loads
- Motor load transfer controls
- Pre/Post Transfer load disconnect contacts for signaling motor starters, elevators, VFD's, and other selected loads
- Weekly engine exercisor, with or without loads
- Source availability lights
- Switch position lights
- Test switch
- Time Delay Bypass Button
- Two switch position indicating contacts, one for normal and one for emergency positions
- Gold plated engine start contacts

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1.9 Startup and Site Testing

- By MiltonCAT
- Installation and wiring guidelines
- Formal start up of the generator system, one day on-site

2.0 Warranty

- Standard Caterpillar Two Year Warranty for Standby Service from date of generator start-up
- One (1) full set of operation and maintenance manuals, circuit wiring diagrams, commissioning /fault finding instruction leaflets and a factory test report.
- Extended warranty and service contracts available from Milton Cat Power Systems.