1.0 GENERAL

1.1 REQUIREMENT: This specification covers the detailed requirements for mobile emergency generators which will be used to provide electrical power due to the loss of normal commercial power in the WMATA system.

1.2 DESCRIPTION:
Ingersoll Rand G570 480 kw "Quiet Pack " generators or equal, heavy duty turbo charged, direct injection, air to air intercooled diesel engine, w/electronic governor, auto start, battery switch, automatic voltage regulator, emergency stop switch. Heavy duty tandem axle trailer with internal fuel tank, 3" pintle rated 20,000 lbs, trailer wiring harness.

See Attached Specification.
TRAILER
STRaight AXLE DESIGN W/LEAF SPRING SUSPENSION
■ H.D. STEAL FRAME
■ INTEGRAL FUEL CELL
■ 3” PINTLE-EYE COUPLER, RATED 20,000 LBS.
■ D.O.T. TAIL LAMPS, STOP LAMPS, TURN SIGNAL LAMPS, SIDE MARKER LAMPS
■ TRAILER WIRING HARNESS
■ ELECTRIC BRAKES

GENERATOR

Heavy duty, turbocharged, direct injection, air to air intercooled diesel engine provides maximum reliability.

Brushless alternator reduces service and maintenance requirements and meets temperature rise standards for Class F insulation systems.

Open delta alternator design provides virtually unlimited excitation for maximum motor starting capability.

Automatic voltage regulator (AVR) provides precise regulation.

Electronic governor system maintains frequency to ±0.25%.

Full load acceptance of standby nameplate rating in one step (NFPA 110, para 5-13.2.6).

Sound attenuated, weather resistant, steel housing provides operation at 74 dB(A) at 23 feet. Fully lockable enclosure allows safe unattended operation.

Internal fuel tank with direct reading fuel gauges are standard.
Fuel / water separator removes condensation from fuel for extended engine life.

E-Coat primer with polyurethane enamel finish coat.

Simultaneous single and three phase power.

EPA emissions certified. - Tier 3 emissions compliant.

Complete engine analog instrumentation includes DC ammeter, oil pressure gauge, water temp. gauge, fuel level gauge, tachometer/hour meter, preheat indicator, manual engine speed control, emergency shutdown monitors, and emergency stop button.

Complete generator analog instrumentation includes voltage regulator control, ammeter phase selector switch, voltmeter phase selector switch, AC voltmeter, AC ammeter, frequency meter, panel light, and circuit breaker.

Automatic safety shutdown system monitors the water temperature, engine oil pressure, overspeed, and overcrank. Warning lights indicate abnormal conditions.

Low coolant level shutdown system provides protection from critically low coolant levels. Includes control panel warning light.

Auto start/stop control allows generator to start automatically in the event of a commercial power failure.

Complete power panel. Fully covered; three-phase terminals and single phase receptacles allow fast and convenient hookup for most applications including temporary power boxes, tools and lighting equipment. All are NEMA standard.

Emergency stop switch.

Battery switch.

Voltage change over board allows easy to change voltages as your applications require. 240/480 Buss Bar.

Engine heater allows for easier cold weather starting.

Battery charger keeps the generator battery charged when the generator is in a stand-by mode.

3-way fuel valve allows for fuel usage from an external source.
**MANUALS:** 3 sets of Operations and Maintenance Manuals for each generator

**WARRANTY:**

Engine - 2 years/4000 hours - parts and labor  
Generator/alternator - 2 years/4000 hours - parts and labor  
Package (all other parts and components except engine and generator/alternator) -  
  one year/2000 hours - parts and labor

**DELIVERY:** 90 days after award of contract. FOB Destination.

Deliver generators, trailers, manuals, and keys to:

Carmen Turner Facility  
Attn: Luis Rodriquez  
3500 Pennsy Drive  
Landover, MD 20785

**TRAINING:** One-time field training for about 10 - 20 people. Training shall include  
operation and routine maintenance of the generators. Operational training shall consist of but not limited to start-up, normal shut off and emergency shut off procedures, and  
wire and cable hook-ups. Time and place of training will be determined by WMATA.

**KEYS:** Provide 5 (five) keys per generator.