

SECTION 16190

ENGINE GENERATOR SET

1.01 GENERAL

- A. Requirements contained in this Specification shall apply to and govern the work under this Section.

1.02 WORK INCLUDED

- A. Provide labor and material necessary to install a standby diesel engine-generator set of the latest commercial type and design as specified herein.

1.03 SUBMITTALS

- A. The Contractor shall furnish information showing manufacturers' model number, dimensions, and weights for the engine, generator, and major auxiliary equipment.

1.04 MANUFACTURERS

- A. The following manufacturers are the only acceptable manufacturers:
1. Onan
 2. Caterpillar/Olympian
 3. Kohler

1.05 MATERIALS

- A. Engine: The engine shall be 1800 RPM, water-cooled in line or Vee type four-stroke cycle compression ignition diesel. It shall meet specifications when operating on Number 2 domestic burner oil. Engines requiring premium fuels will not be considered. The engine shall be equipped with fuel, lube oil, and intake air filters, lube oil cooler, fuel transfer pump, fuel priming pump, engine driven water pump, and unit mounted instruments, water temperature gauge, lubrication oil pressure gauge, and battery charging ammeter.
1. Governor - A gear driven hydraulic governor shall maintain frequency regulation not to exceed 3% (1.8 hertz) from no load to full rated load.
 2. Mounting - The units shall be mounted on a structural steel sub-base and shall be provided with suitable spring-type isolators.
 3. Safety Devices - Safety shut-off for high water temperature, low oil pressure, over-speed, and engine over-crank shall be provided.
 4. Guards - Guards shall be provided over all exposed moving parts as required by OSHA.
- B. Generator:
1. The generator shall be rated for continuous stand-by service at 125 KW, 156 KVA at 0.8 power factor, 120/208 volts, three phase, four wire, 60 hertz, 1800 RPM.