

**STATEMENT OF WORK  
750 kW GENERATOR  
HOUSE REPLACEMENT  
6 April 2001**

**1. SCOPE:**

The Mobile Utilities Support Equipment Division of the U.S. Naval Construction Battalion Center desires replacement enclosures and painting of the external (exposed) portion of the lower skid for 15 to 30, 750 kW generators. New enclosures shall be designed, supplied and installed by contractor. New enclosures shall be constructed of aluminum. Contractor shall provide transportation of the units to and from the contractor's facility. Proposals shall include a proposed layout of enclosure, including Government proposed modifications as set forth in this Statement of Work.

**2. DESCRIPTION:**

All enclosures shall be new and shall not exceed existing dimensions of unit (Height 100 inches, Width 96 inches, Length 333 inches). Control room is sound attenuated and shall remain so. Existing enclosures are of the sectioned type incorporating bolted together panels with gaskets. Replacement enclosures shall be constructed of aluminum, of one or two-piece design retaining the current size, access points, lockable doors, area of louvered openings, and noise levels.

Characteristics of enclosure:

- ?? Constructed of Aluminum.
- ?? Louvered openings shall be latchable in the open, closed and mid positions for shipment and operation.
- ?? Shore power and interconnecting cable openings may be modified but shall retain their original positions and arrangement.
- ?? Removal of sound powered telephone jacks on the enclosure.
- ?? Double doors on engine (right and left) sized to permit access. Current enclosure has double doors only at generator section.
- ?? Removable engine house without disturbance of control room house. Current enclosure consists of interlocking bolted panels.
- ?? Lifting points on enclosure to facilitate removal of enclosure.
- ?? Removal of external fuel fill opening. Provide for internal fuel fill opening to day tank in control room.
- ?? Modify engine exhaust system to include internal exhaust silencers (meeting or exceeding current silencer specifications) with stacks bolted to the sides of the container instead of the roof.
- ?? Exhaust piping and silencers shall be thermally insulated for operator protection.
- ?? Remove load output cable connection point and fabricate new opening. A single opening shall be sized to allow 4 cables of #1 AWG, 5kV.
  - ?? Enclosure shall maintain weather-tight integrity staged or in service.

- ?? No penetrations shall be made through the enclosure roof, except for the existing radiator fill door.
- ?? All penetrations will be protected using weather-tight covers.
- ?? All existing external access points will be identified with permanently affixed, corrosion resistant, identification tags.
- ?? Modify existing alternating current lighting circuit, convenience receptacles and emergency lighting circuits to allow for expedient connection and disconnection from the housing facilitating housing installation and removal.

**3. PAINTING:**

- 3.1** The enclosure and exterior of the lower skid shall be primed and painted, in accordance with MIL-STD-1223, utilizing an epoxy base coat and polyurethane topcoat suitable for harsh marine environments. Color of topcoat shall be gray (Federal Standard 595B, gray color # 16187). Contractor shall warranty the paint against chipping, peeling, rusting and or fading for a minimum of one year.

**4. SPECIAL MARKING:**

Include exterior markings (lettering, numbering, and decals) as shown below, affixed to the right and left side of each generator set. Lettering and numbering shall be adhesive or painted black, four inches high. The government will identify the USN registration number, and provide the MUSE decals for each unit. Identification shall be as follows:

**DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND  
(GOVERNMENT FURNISHED "MUSE DECALS")  
750kW GENERATOR SET  
USN 51-XXXXX**

**5. WARRANTY:**

The manufacturer's warranty for defects in material and workmanship shall be provided with each generator set. All equipment and materials utilized in construction including assemblies and subassemblies must be warranted a minimum of 12 months after Government acceptance of each unit.

**6. SYSTEM (S) DRAWINGS:**

The contractor shall provide one (1) complete set of standard "as-built" drawings for the housings. A master copy of generator set drawing package, approved by a Professional Engineer (P.E.) licensed in the respective engineering field, will be provided on compact disk(s) computer media in the latest revision of AUTOCAD? format.

**7. DELIVERY SCHEDULE AND SHIPPING ADDRESS:**

N4740801D8211

Initial enclosure and drawings shall be delivered no more than 100 days from Delivery Order (DO) issuance/acceptance. Subsequent enclosures shall be delivered no more than 60 days from DO issuance/acceptance.

Generators are located at and shall be returned to the following address:

U.S. Naval Construction Battalion Center  
Mobile Utilities Support Equipment Division Code N33E  
Building 1360  
Port Hueneme, CA 93043  
Attn: Engineering Branch, telephone (805) 982-5323

**8. ADDITIONAL INFORMATION:**

Engine Information:

?? Cummins Model KTA-2300G, PT (type G) fuel pump, PT (type-D) injectors. [MEP208A]

Measured sound levels:

?? In Control Room 80-84 dBA

?? Side of unit 97-98 dBA

?? Front of unit 104 dBA