

**STATEMENT OF WORK (SOW)
MOBILE UTILITIES SUPPORT EQUIPMENT (MUSE)
DETAILED SPECIFICATIONS OF OLD POWER PLANTS**

Condition of All Items: "AS - IS"

THE GOVERNEMENT DOES NOT WARRANT THE CONDITION OF THE POWER PLANTS AND COLLATERAL EQUIPMENT

1.0 Nomenclature. Four (4) classes of OLD power plants are being offered in this exchange. See below listings of individual generators, collateral equipment, and spare parts. A description of power plants is provided below. Drawings of power plants are provided in enclosure (3).

- a. 750kW (4160VAC/130Amp/60Hz) self contained Mobile Utilities Support Equipment (MUSE) Diesel power plants and collateral equipment.
- b. 1500kW (4160VAC/260Amp/60Hz) self contained Mobile Utilities Support Equipment (MUSE) Diesel power plants and collateral equipment.
- c. ds2000kW (4160VAC/347Amp/60Hz) self contained Mobile Utilities Support Equipment (MUSE) Diesel power plants and collateral equipment.
- d. ds2500kW (4160VAC/430Amp/60Hz) self contained Mobile Utilities Support Equipment (MUSE) Diesel power plants and collateral equipment.

2.0 Quantity. Twenty-eight (28) total power plants. The government does not warrant that all items and quantities of collateral equipment are present within each power plant's enclosure.

- a. 750kW (4160VAC/130Amp/60Hz) 5 power plants
- b. 1500kW (4160VAC/260Amp/60Hz) 10 power plants
(includes control skid)
- c. 2000kW (4160VAC/347Amp/60Hz) 7 power plants
(includes control skid)
- d. 2500kW (4160VAC/430Amp/60Hz) 6 power plants
(includes control skid)

3.0 Location. All twenty-eight (28) power plants and collateral equipment are stored at the Mobile Utilities Support Equipment (MUSE) yard at Naval Base Ventura County, Port Hueneme, CA, 93043, and are available for inspection by prospective Offerors.

4.0 Power plants and collateral equipment.

- a. 750kW (4160VAC/130Amp/60Hz)
 - 1) Electrical Output: 750kW @ 0.8 PF, 4160VAC/130Amp/60Hz at 720 RPM
 - 2) Configuration: The power plants are housed, self-contained, transportable, skid-mounted electric power plants. Each power plant has an Electro-Motive Division (EMD) 12-645E1 diesel

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engine, Baylor or Kato synchronous generator with brushless exciter, Woodward UG8 governing system, Basler 125H voltage regulation control, metal enclosed indoor type switchgear with analog metering, and local engine/generator management/protection controls for synchronizing, paralleling/load sharing during isolated operation or in parallel with a utility. These EMD power plants are Model Number 12-645-E1, 750kW, 4160VAC, 60 Hz.

	<u>Engine Skid</u>
Overall Length:	469 inches
Overall Width:	121 inches
Overall Height:	138 inches
Weight (Empty):	88,500 pounds

3) Identification Numbers for 750kW power plants

<u>Power Plant ID Number</u>	<u>USN Number</u>	<u>Engine Serial Number</u>
1	51-12190	67-C1-1189
2	51-14821	67-F1-1179
3	51-14822	67-F1-1150
4	51-12191	66-C1-1151
5	51-12019	66-A1-1088

NOTE: The government will obliterate USN numbers from each power plant before it is turned over to the contractor. Above numbers (1-5) will be used to identify these units.

4) History of power plants: Each power plant was originally produced by A. G. Schoonmaker and received a "zero-time" overhaul (including switchgear and controls) under one of three contracts:

<u>Contract Number</u>	<u>Contractor</u>
N62578-86-C-6038	Stewart and Stevenson of Houston, TX
N47408-89-C-2011	MCII Generator and Electric of Dallas, TX
N47408-92-D-3118	MCII Generator and Electric of Dallas, TX

Technical inspection reports for the power plants are **NOT** available.

5) List of power plant by USN, overhaul contract, and presence of polychlorinated biphenyls (PCBS):

NOTE: Provision by the Government of the following data does not constitute a warranty of the condition of any of the power plants.

<u>USN Number</u>	<u>CONTRACT</u> (overhaul contract)	<u>PCBs</u>
51-12190	N62578-86-C-6038	NO
51-14821	N62578-86-C-6038	NO
51-14822	N62578-86-C-6038	NO
51-12191	N62578-86-C-6038	NO
51-12019	N62578-86-C-6038	NO

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b. 1500kW (4160VAC/260Amp/60Hz)

- 1) Electrical Output: 1500kW @0.8 PF, 4160VAC/260Amp/60Hz at 900 RPM
- 2) Configuration: The power plants are housed, self-contained, transportable, skid-mounted electric power plants. Each power plant set has an Electro-Motive Division (EMD) 16-645E4 diesel engine, synchronous generator with brushless exciter, governing system, voltage regulation control, metal enclosed indoor type switchgear with analog metering, and local engine/generator management/protection controls for synchronizing, paralleling/load sharing during isolated operation or in parallel with a utility. These EMD power plants are Model Number 16-645-E4, 1500kW, 4160VAC, 60 Hz.

	<u>Engine Skid</u>	<u>Control Skid</u>	<u>Exhaust Silencer</u>
Overall Length:	540 inches	220 inches	175 inches
Overall Width:	125 inches	125 inches	120 inches
Overall Height:	138 inches	125 inches	107 inches
Weight (Empty):	112,700 pounds	18,000 pounds	3,000 pounds

3) Identification Numbers for 1500kW power plants

<u>Power Plant ID Number</u>	<u>USN Number</u>	<u>Engine Serial Number</u>
6	51-17103	69-C1-1130
7	51-14618	67-F1-1123
8	51-15121	67-F1-1115
9	51-16141	69-B1-1040
10	51-16522	69-D1-1060
11	51-12041	66-H1-1043
12	51-17102	69-L1-1100
13	51-13428	67-B1-1126
14	51-12039	66-F1-1162
15	51-16132	81-G3-7503

NOTE: The government will obliterate USN numbers from each power plant before it is turned over to the contractor. Above numbers (6-15) will be used to identify these units

- 4) History of power plants: Each power plant set was originally produced by:

<u>Contract Number</u>	<u>Contractor</u>
NBY 75776	A. G. Schoonmaker, Sausalito, CA
NBY 75819	A. G. Schoonmaker, Sausalito, CA
NBY 92457	A. G. Schoonmaker, Sausalito, CA

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Each power plant received a "zero-time" overhaul (including switchgear and controls) under one of the following contracts:

<u>Contract Number</u>	<u>Contractor</u>
N62472-80-C-1648	PSD
N62578-86-C-6001	Morris & Knudsen
TSARCM 83-02ANJX	Tooele Army Depot
TSARCM 83-02ANJX-A	Valley Detroit Diesel
N47408-89-C-2011	MCII Generator and Electric of Dallas, TX

Technical inspection reports for the generators are **NOT** available.

5) List of power plants by USN, overhaul contract, and presence of polychlorinated biphenyls (PCBS):

NOTE: Provision by the Government of the following data does not constitute a warranty of the condition of any of the Generators.

USN	Original Contract Number	Overhaul Contract Number	PCB's
51-14618	NBY 75819	TSARCM 83-02ANJX	NO
51-15121	NBY 75819	TSARCM 83-02ANJX	NO
51-16141	NBY 92457	N47408-89-C-2011	NO
51-16522	NBY 92457	TSARCM 83-02ANJX	NO
51-17103	NBY 92457	N62578-86-C-6001	NO
51-12041	NBY 92457	N62578-86-C-6001	NO
51-17102	NBY 92457	N62578-86-C-6001	NO
51-13428	NBY 75819	TSARCM 83-02ANJX	NO
51-12039	NBY 92457	N62578-86-C-6001	NO
51-16132	NBY 92457	N47408-89-C-2011	NO

c. 2000kW (4160VAC/347Amp/60Hz)

1) Electrical Output: 2000kW @0.8 PF, 4160VAC/347Amp/60Hz at 900 RPM.

2) Configuration: The power plants are housed, self-contained, transportable, skid-mounted electric power plants. Each power plant has an Electro-Motive Division (EMD) 16-645E4 diesel engine, synchronous generator with series boost static exciter, electric governing system, voltage regulation control, metal enclosed indoor type switchgear with analog metering, and local engine/generator management/protection controls for synchronizing, paralleling/load sharing during isolated operation or in parallel with a utility. These EMD power plants are Model Number 16-645E4, 2000kW, 4160VAC, 60 Hz.

	<u>Engine Skid</u>	<u>Control Skid</u>
Overall Length:	600 inches	223 inches
Overall Width:	144 inches	144 inches
Overall Height:	156 inches	128 inches
Weight (Empty):	120,000 pounds	25,000 pounds

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3) Identification Numbers for 2000kW power plants

<u>Power Plant ID Number</u>	<u>USN Number</u>	<u>Engine Serial Number</u>
16	51-19776	84-A1-1010
17	51-19777	83-F1-1031
18	51-19778	83-E1-1029
19	51-19779	83-E1-1014
20	51-19782	83-F1-1015
21	51-19783	83-F1-1011
22	51-20004	83-E1-1001

NOTE: The government will obliterate USN numbers from each power plant before it is turned over to the contractor. Above numbers (16-22) will be used to identify these units.

4) History of power plants: Each power plant was originally produced by:

<u>Contract Number</u>	<u>Contractor</u>
N62472-83-C-1663	Williams and Lane East Energy System Corp.

Technical inspection reports for the generators are **NOT** available.

5) List of power plants by USN, overhaul contract, and presence of polychlorinated biphenyls (PCBs):

NOTE: Provision by the Government of the following data does not constitute a warranty of the condition of any of the generators.

<u>USN</u>	<u>Original Contract Number</u>	<u>PCBs</u>
51-19776	N62578-83-C-1663	NO
51-19777	N62578-83-C-1663	NO
51-19778	N62578-83-C-1663	NO
51-19779	N62578-83-C-1663	NO
51-19782	N62578-83-C-1663	NO
51-19783	N62578-83-C-1663	NO
51-20004	N62578-83-C-1663	NO

d. 2500kW (4160VAC/430Amp/60Hz)

1) Electrical Output: 2500kW @0.8 PF, 4160VAC/430Amp/60Hz at 900 RPM.

2) Configuration: The power plants are housed, self-contained, transportable, skid-mounted electric power plants. Each power plant has an Electro-Motive Division (EMD) 20-645E4 diesel engine, synchronous generator with brushless exciter, electric governing system, voltage regulation control, metal enclosed indoor type switchgear with analog metering, and local

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engine/generator management/protection controls for synchronizing, paralleling/load sharing during isolated operation or in parallel with a utility. These EMD power plants are Model Number 20-645-E4, 2500kW, 4160VAC, 60 Hz.

	<u>Engine Skid</u>	<u>Control Skid</u>	<u>Exhaust Silencer</u>
Overall Length:	604 inches	175 inches	210 inches
Overall Width:	144 inches	129 inches	53 inches
Overall Height:	153 inches	132 inches	63 inches
Weight (Empty):	133,800 pounds	18,000 pounds	4,000 pounds

3) Identification Numbers for 2500kW generators

<u>Power Plant ID Number</u>	<u>USN Number</u>	<u>Engine Serial Number</u>
23	51-19050	76-J1-1099
24	51-19051	82-H1-1004
25	51-19052	77-F1-1048
26	51-19053	77-F1-1016
27	51-19043	76-J1-1088
28	51-19044	76-K1-1102

NOTE: The government will obliterate USN numbers from each power plant before it is turned over to the contractor. Above numbers (23-28) will be used to identify these units.

4) History of power plants: Each power plant was originally produced by:

<u>Contract Number</u>	<u>Contractor</u>
N62578-76-C-0209	Morrison-Knudsen Co

Technical inspection reports for the power plants are **NOT** available.

5) List of power plants by USN, overhaul contract, and presence of polychlorinated biphenyls (PCBS):

NOTE: Provision by the Government of the following data does not constitute a warranty of the condition of any of the generators.

<u>USN</u>	<u>Original Contract Number</u>	<u>PCBs</u>
51-19050	N62578-76-C-0209	NO
51-19051	N62578-76-C-0209	NO
51-19052	N62578-76-C-0209	NO
51-19053	N62578-76-C-0209	NO
51-19043	N62578-76-C-0209	NO
51-19044	N62578-76-C-0209	NO