



**USER'S LOGISTICS
SUPPORT SUMMARY (ULSS)**

**MOBILE FACILITIES (MF) PROGRAM AND
RELATED ANCILLARY EQUIPMENT**

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**MOBILE FACILITIES
USERS LOGISTICS SUPPORT SUMMARY**

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MOBILE FACILITIES USERS LOGISTICS SUPPORT SUMMARY

1.0 INTRODUCTION

This Users Logistics Support Summary (ULSS) was developed by the Assistant Program Manager for Logistics (APML) Naval Air Warfare Center, Aircraft Division, Lakehurst (NAWCADLKE), Code 6.7.6.2 in accordance with SECNAVINST 5000.2 series.

The ULSS identifies the Integrated Logistics Support (ILS) required to operate and maintain the Mobile Facilities (MFs). It assists user activities by describing the maintenance concept, warranty information, personnel and training requirements, support and test equipment requirements, technical data requirements, packaging & handling procedures, facilities/installation requirements, and other logistics related information

The ULSS will be updated periodically as program changes dictate. Copies may be viewed on the following on-line address: <http://www.navair.navy.mil/mobilefacilities/home.htm>. Information on specific ancillary equipment end items may be found in their respective ULSS's.

1.1 PROGRAM OVERVIEW

Naval Air Systems Command (NAVAIRSYSCOM) Mobile Facility Program (MFP) answers an unlimited variety of needs for any member of the Navy-Marine Corps team with an operational or support function conducive to containerization. As a result of over 30 years of experience, the program provides the equipment and know-how required to ensure that sophisticated aircraft and other weapon systems can be maintained in environmentally controlled spaces, even in the most remote locations.

As a result of this program's provided capabilities, Warfighters can deploy tactical weapon systems to any combat theater in the world and operate them indefinitely from any expeditionary location. Currently the MFP inventory consists of approximately 5,000 Mobile Facilities comprised of various configurations and numerous ancillary equipment. Naval Air Systems Command Instruction (NAVAIRINST) 13670.1 (series) provides overall MFP information and policies.

2.0 FUNCTIONAL DESCRIPTION

The primary component is the Mobile Facility (MF), a 20'x8'x8' tactical shelter, meets the stringent structural and dimensional requirements of the International Organization for Standardization (ISO), the American National Standards Institute (ANSI), and the American Society for Testing and Material (ASTM).

Designed for a 20-year service life, the MF's are heated and cooled by energy efficient, mechanically reliable Environmental Control Units (ECUs) (Figure 2), which the program procures and logistically supports. In tactical environments, electrical power required to support the MF complexes is provided by Department of Defense (DOD) standard generator sets. The Mobile Facility Tactical Electrical Power Distribution System (MF TEPDS) distributes 120/208 VAC, 60-HZ primary power from three MEP-809A Tactical Quiet Generator Sets, or other power sources to twelve 200-Amp loads and two 100-Amp loads. It is designed for use in tactical deployment situations where rapid hookup and efficient distribution of electrical power is essential. In addition, Integration Units (INU's) are used to join MF's together to form a total environmentally controlled complex. Integrated complexes support a variety of maintenance shops, supply support spaces, production control facilities, and other functions necessary to sustain the support of tactical aircraft and other tactical systems during combat around the world.

Table 1 identifies the seven types of MF's. Table 2 identifies Product Support Team (PST) points of

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contact. Table 3 identifies MFP related ancillary and Support Equipment. (SE)

Basic equipment identification information is as follows:

- a. Nomenclature - Mobile Facilities
- b. Equipment Designation Code - N/A
- c. Part Number (P/N), National Stock Number (NSN) and Type Equipment Code (TEC)
See Table 1. The different MF Shell Types are illustrated in Figure 1.
- d. Commercial and Government Entity (CAGE) - 30003
- e. Source Maintenance and Recoverability Code (SM&R) - PEOGG
- f. Cognizant Procuring Activity - NAWCADLKE
- g. In Service Support Activity - NAWCADLKE
- h. Training Agent - PMA-205

**Table 1 Mobile Facilities National Stock Numbers,
Part Numbers and Type Equipment Codes (TEC's)**

Nomenclature	Part Number	NSN	TEC
Mobile Facility - Type A Side Opening	1339AS500-1	5411-01-355-4320	GMJU
Mobile Facility - Type B Side Opening	1339AS501-1	5411-01-355-4321	GMJV
Mobile Facility - Type A Turnkey	1339AS700-1	5411-01-355-4322	GMJR
Mobile Facility - Type B Turnkey	1339AS701-1	5411-01-355-4323	GMJS
Mobile Facility - Integration Unit	1339AS900-2	5411-01-355-4318	GMJT
Mobile Facility - Type B Side Opening (Modified)	1339AS1000-1	5411-01-355-4319	GMJ7

2.1 MAJOR ASSEMBLIES AND SUB-ASSEMBLIES DESCRIPTION

The MF is designed to provide a fundamental shelter which may be further configured as a maintenance or operational facility. The shelters are completely enclosed units capable of containing equipment and can be adapted to various support missions. The shelter is watertight to protect both equipment and personnel from the weather. The shelter provides a controlled environment for equipment and personnel when at a fixed operational site. It also provides continued protection for the installed mission equipment when it is being transported. All major assemblies and installed attachments can be maintained, repaired and replaced without removing other major assemblies.

Personnel door assemblies are installed on both ends of the MF Type A (MFA), MF Type B (MFB), MF Type A Side Opening (MFSOA) and Integration Unit Mobile Facility (INUMF). The MF Type C Side Opening (MFSOC) has only one end door assembly. Both the MF Type B Side Opening ((MFSOB) and

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MF Type B Side Opening (Modified) (MFSOB (MOD)) have smaller personnel door assemblies installed centered on the left side. Personnel door assemblies may be locked from the interior or exterior of the MF.

One removable panel, used for ECU installation, is installed on the left side of MFA and MFB. Two removable panels, used for ECU installation, are installed on the left side of MFSOA and MFSOB. During operation the panels are removed and an ECU mounted on slides is extended for use. The MFSOC has no provision for ECU installation. One removable side panel, used for joining one side opening MF to another side opening MF, is installed on the right side of MFSOA, MFSOB, and MFSOB (MOD). MFSOC has two removable side panels. During operation, panels are removed to allow side opening MF's to be joined to form larger work areas. The INUMF incorporates two removable panels on the left side and one removable panel on the right side. Panel removal during operation allows two MF's to be complexed to the INUMF at each panel opening. Up to six MF's can be complexed to one INUMF.

Power entry panels, power distribution panels, and power monitor panels are installed as required for 120/208 VAC, three- phase, 60 and/or 400 HZ, 100 or 200 AMP service. 28 VDC power supplies and 60 to 400 HZ frequency converters are installed as required. MF power sources (tactical and commercial) are 120/208 VAC, three-phase, 60 or 400-Hz, 100 or 200 amps, 5-wire.

Lighting generally consists of four 4-tube, or one 4-tube and six 2-tube fluorescent fixtures. An emergency light provides limited duration lighting in the event of a power outage.

Each corner of the shelter is equipped with an ISO fitting, with each fitting designed for a maximum load of 100,800 pounds. In the transport mode, the upper ISO fittings can be used with overhead lifting devices such as cranes to lift the shelters.

2.2 PERFORMANCE/PHYSICAL CHARACTERISTICS

The anticipated utilization rate for the MF is 24 hours per day with a projected service life estimated to be 20 years.

ISO/ANSI/ASTM – ISO 668/1161/1496/6346; ANSI MH 5.1.1M and ASTM E 1925 (general)

Exterior Dimensions – 96 in high, 96 in wide, 238 1/2 in long

Interior Dimensions – 84-5/16 in high, 89 13/16 in wide, 232-5/16 in long

Maximum Payload – 15,800 lbs

Nominal Cubic Feet – 1,272

Tare Weight – 4,200 lbs

3.0 MAINTENANCE CONCEPT

The Maintenance Concept for the MF's is based on scheduled and unscheduled maintenance. Concept includes inspection, adjustment, corrosion control, repair or replacement of worn or malfunctioning components/assemblies in accordance with the approved Technical Manuals (TMs) and CNAFINST 4790.2 (series). User Fleet Readiness Centers (FRC's) and Marine Aviation Logistics Squadron (MALS) activities will be responsible for the overall maintenance and readiness of the MF's and all related SE.

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3.1 ORGANIZATIONAL LEVEL MAINTENANCE

SCHEDULED

- a. Perform pre-operational maintenance requirements.

3.2 INTERMEDIATE LEVEL MAINTENANCE

SCHEDULED

- a. Perform pre-operational maintenance requirements.
- b. Perform periodic maintenance requirements.
- c. Perform inspection to determine any physical damage or evidence of corrosion.

UNSCHEDULED

- a. Fault isolate to specific assembly, component or part.
- b. Remove and replace faulty components or parts.
- c. Perform functional tests on replaced components.
- d. Perform required corrosion control procedures in accordance with NAVAIR 16-1-540 or NAVAIR 17-1-125 (as appropriate) and repair any physical damage.

3.3 DEPOT LEVEL MAINTENANCE

SCHEDULED - None

UNSCHEDULED - None

4.0 MOBILE FACILITIES CONFIGURATION

NAWCADLKE procures MF's whenever necessary to meet operational requirements. The MF's are delivered to one of the MFP configuration sites, where they are configured to meet specific mission needs. Delivery to individual sites is based upon type of configuration as required by Type Commanders (TYCOMS) and other DOD customers.

5.0 TECHNICAL SUPPORT

The MFP has reached MSD. The MF Product Support Team determines product requirements, performs acquisition and logistics management, establishes and defends budgets, and executes the MFP. This Product Support Team is the NAVAIRSYSCOM focal point for all matters relative to MF's and related equipment. Key Government Billets are identified in Table 2.

The Integrated Product Team (IPT) will provide technical support, as required. See Table 3 for specific MF SE Cognizant Field Activities (CFAs).

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6.0 LOGISTIC SUPPORT MANAGEMENT TEAM

Table 2 Integrated Product Team (IPT)

TITLE	CODE	PHONE
Program Manager	NAVAIR 6.7.6.2	DSN: 757-8685 (301) 757-8685
Deputy Program Manager	NAVAIR 6.7.6.2	DSN: 757-0747 (301) 757-0747
Program Logistics Manager	NAWCADPAX 6.7.6.2	DSN: 757-1128 (301) 757-1128
Product Lead	NAWCADPAX 6.7.6.2	DSN: 564-1428 (757) 444-1428
Product Support Team Leader	NAWCADLKE 6.7.6.1	DSN: 624-1918 (732) 323-1918
Project Engineer	NAWCADLKE 4.8.6.9	DSN: 624-4170 (732) 323-4170
In-Service Engineer	NAWCADLKE 4.8.6.9	DSN: 624-7909 (732) 323-7909
Assistant Program Manager Logistics (APML)	NAWCADLKE 6.7.6.2	DSN: 624-1847 (732) 323-1847
Training Element Manager	NAWCADLKE 6.7.5.1	DSN: 624-7289 (732) 323-7289
Technical Manuals	NATEC 6.8.5.1	DSN: 735-2216 (619) 545-2216
Engineer NADEP FRCSWS	FRCSW NORTH ISLAND 4.8.6.3	DSN: 735-5215 (619) 545-5215

7.0 SUPPLY SUPPORT REQUIREMENTS

7.1 PROVISIONING

The Program Support Inventory Control Point (PSICP) is the Navy Inventory Control Point (NAVICP) Philadelphia, Pa. NAVICP and other assigned Defense Logistics Agencies (DLA's) will provide required support for the MFs. All required provisioning data developed by the Original Equipment Manufacturer (OEM) has been submitted to NAVICP for processing. Formal provisioning has been accomplished and parts established in the Supply System. MSD has been achieved. Activities are to requisition parts in accordance with normal supply procedures.

7.2 ALLOWANCE PARTS LISTS

Allowance Parts List (APL) provided by NAVICP Philadelphia, PA.

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8.0 TECHNICAL DOCUMENTATION

The TM required to support the MF's was developed in Work Package (WP) format in accordance with Technical Manual Contract Requirement (TMCR) and Military Specifications.

The TMs consist of the following:

- a. Operation and Intermediate Maintenance Instruction - NAVAIR 19-25-177
- b. Pre-operational Checklist - NAVAIR 19-600-152-6-1
- c. Periodic Maintenance Requirements Manual (PMRM) - NAVAIR 19-600-152-6-2

9.0 SUPPORT EQUIPMENT (SE)

SE Nomenclatures, Part Numbers, National Stock Numbers, Type Equipment Codes (TECs) and Cognizant Field Activities (CFAs SE)

Table 3 Support Equipment

Nomenclature	Part Number	NSN	TEC	FST
Environmental Control Unit A/E32C-45	1559AS100-1	4120-01-442-3954	GEC6	NAWCADLKE
Environmental Control Unit A/E32C-45A	1559AS400-1	4920-01-550-2063	GEC6	NAWCADLKE
MEP 807A 100KW Generator Set, Skid Mounted	MEP087A	6115-01-296-1463	GAHK	NAWCADLKE
MEP 809A 200KW Generator Set, Skid Mounted	MEP809A	6115-01-296-1462	GAHL	NAWCADLKE
Static Mobile Frequency Converter (SMFC)	100AG1000-1	6130-01-543-7581	GAEF	NAWCADLKE
Mobile Electric Power Plant MMG-1A	634AS100-E1 (90911) 634AS100-E1 (22680)	6125-00-097-8327	GAEM	NAWCADLKE
Electronic Frequency Converter ECU-108/E	1737AS100-1	6130-01-368-5734	GDGB	NAWCADLKE
Electronic Frequency Converter ECU-130/F	08-18007-1	6625-01-552-1659	GDGB	NAWCADLKE
MF Program Tactical Electrical Power Distribution Set	MFG-159-1	6110-01-448-9198	GAJC	NAWCADLKE
Load Bank, Resistive	LPH200D35584	4920-01-559-1148	TBA	NAWCADLKE

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10.0 TRAINING REQUIREMENTS

Course: Mobile Facility Intermediate Maintenance

Course Number: C-602-3310

Course Type: G1 Enlisted

Sites: CNATT

Course Availability: 2 per quarter/3 to 6 days.

11.0 PERSONNEL

No additional military personnel are required. The MF's will be operated at the intermediate level of maintenance by Navy/Marine Corps Aviation Structural Mechanics and maintained at the intermediate level by Navy/Marine personnel of the Aviation Support Equipment, Maintenance, (ASM) Rating and by Marine Corps personnel assigned to Work Center 990.

12.0 COMPUTER RESOURCES/SOFTWARE SUPPORT

No computer resources or software support are required.

13.0 MAINTENANCE FACILITY REQUIREMENTS

External Power Source

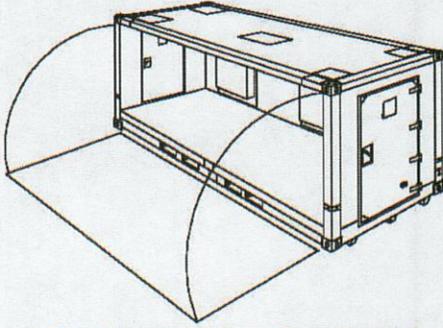
14.0 WARRANTY PROVISIONS

The MF is covered by a 1 year commercial repair/labor warranty. The warranty covers failed or defective components under normal usage conditions and will be handled on a case by case basis. The OEM will provide guidance during the warranty period. The warranty period begins at the time the Government officially takes possession of the MF. Warranty questions should be addressed to the Government point of contact, NAVAIR 4.8.6.9, at (732) 323-4170.

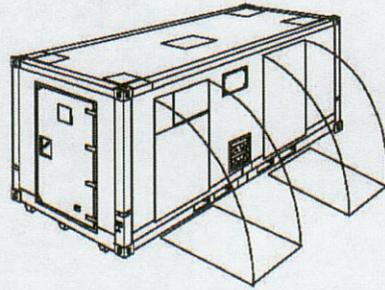
15.0 SPECIAL OR NON-STANDARD REQUIREMENTS

There are no special or non-standard requirements.

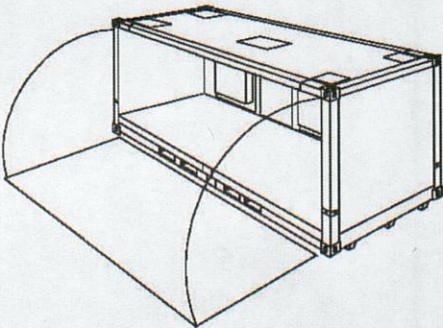
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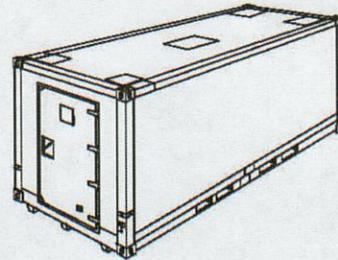
Mobile Facility Side Opening "A"



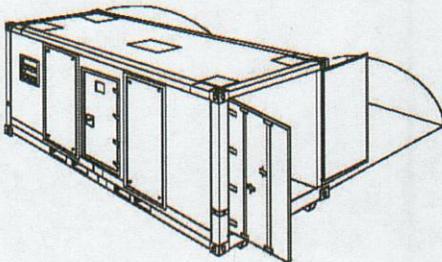
Mobile Facility Integration Unit (INU)



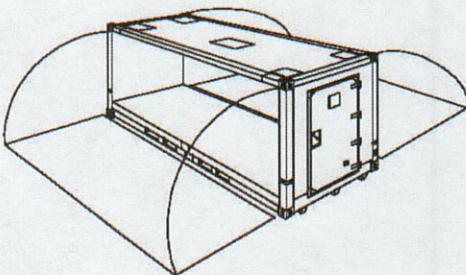
Mobile Facility Side Opening "B"



Mobile Facility (A or B)
(Turnkey "A" or "B")



Mobile Facility Side Opening "B" Modified



Mobile Facility Side Opening "C"

Figure 1. Mobile Facility Types

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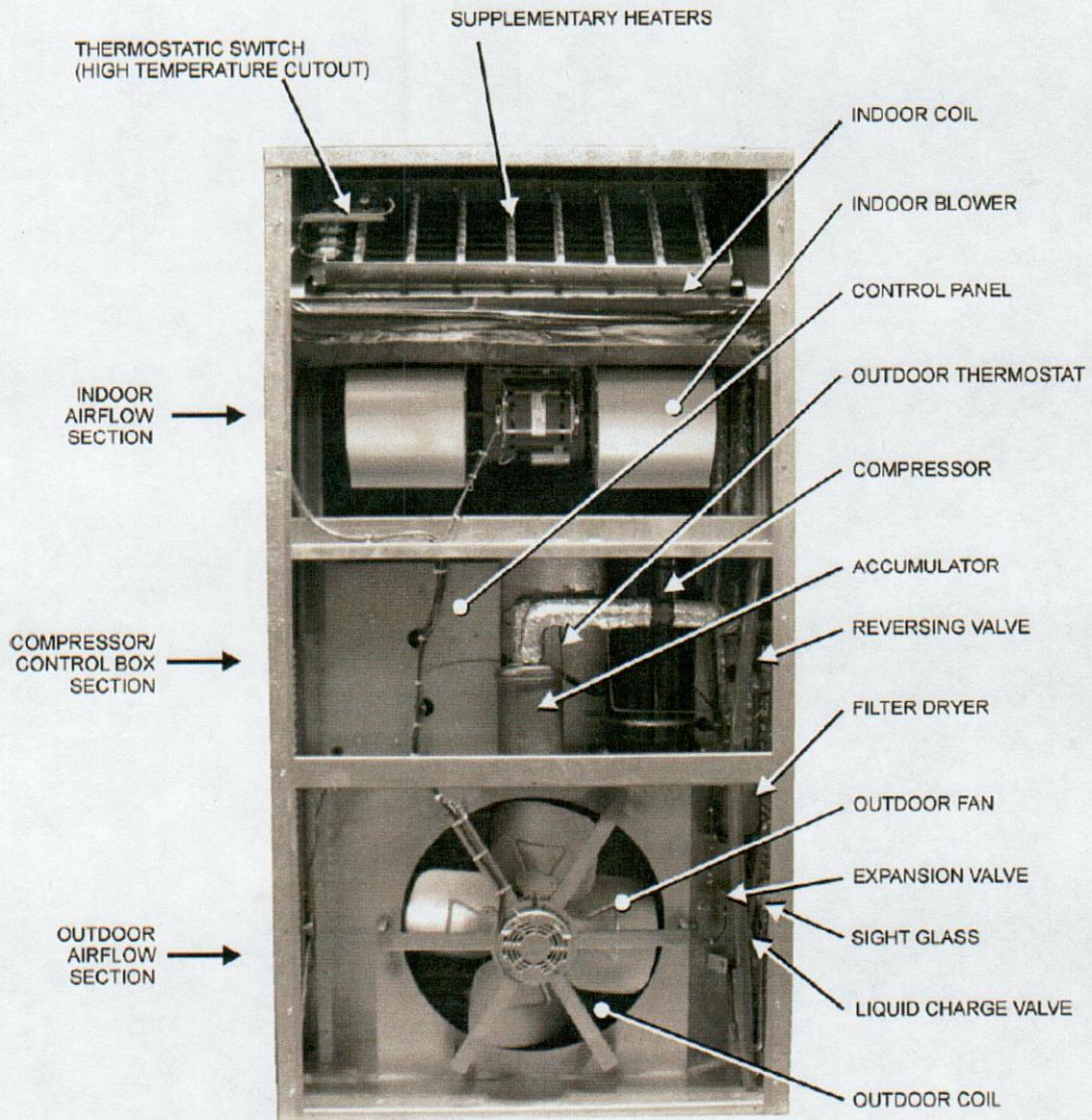


Figure 2. Environmental Control Unit

DOOR ASSEMBLY

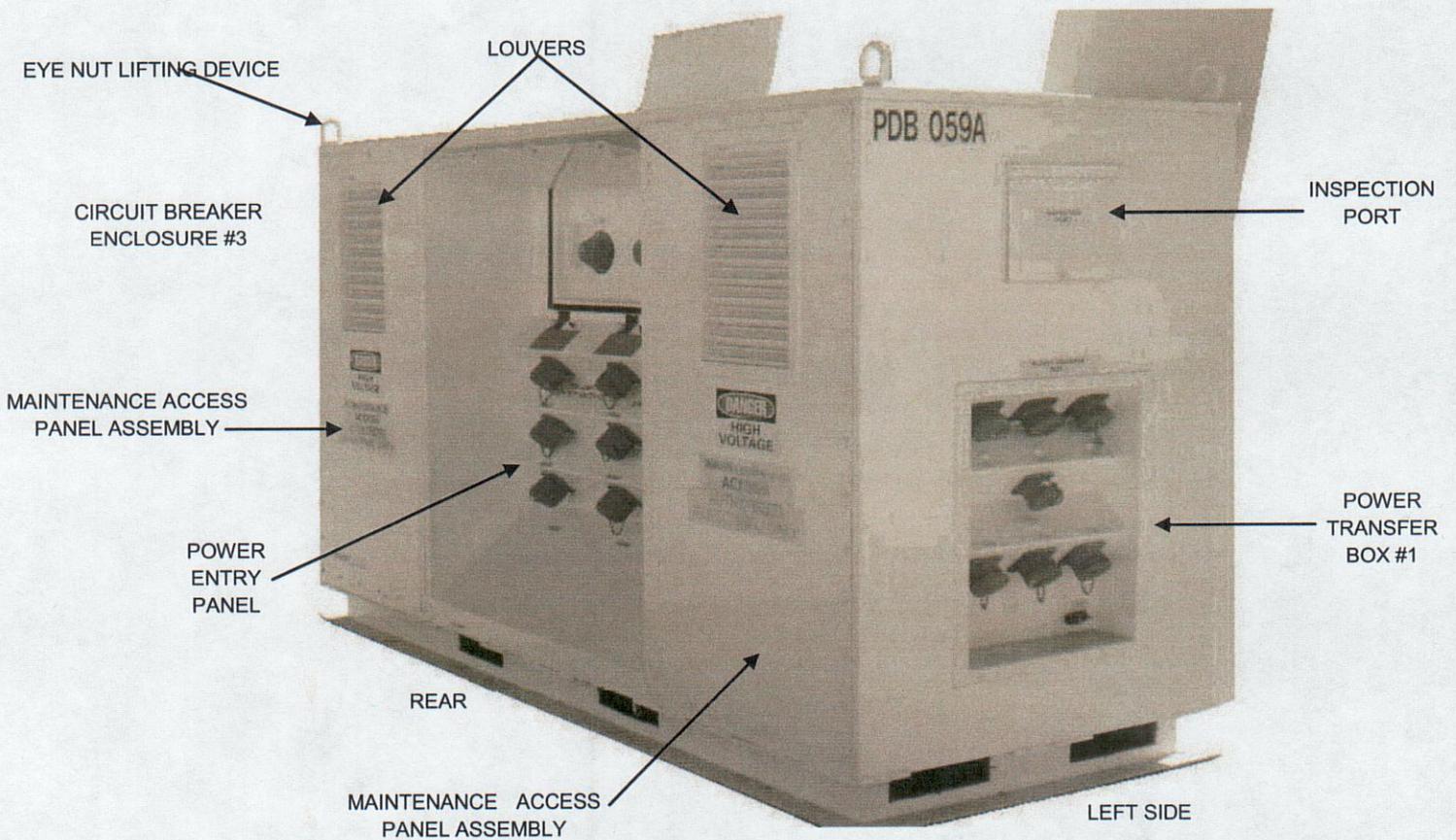
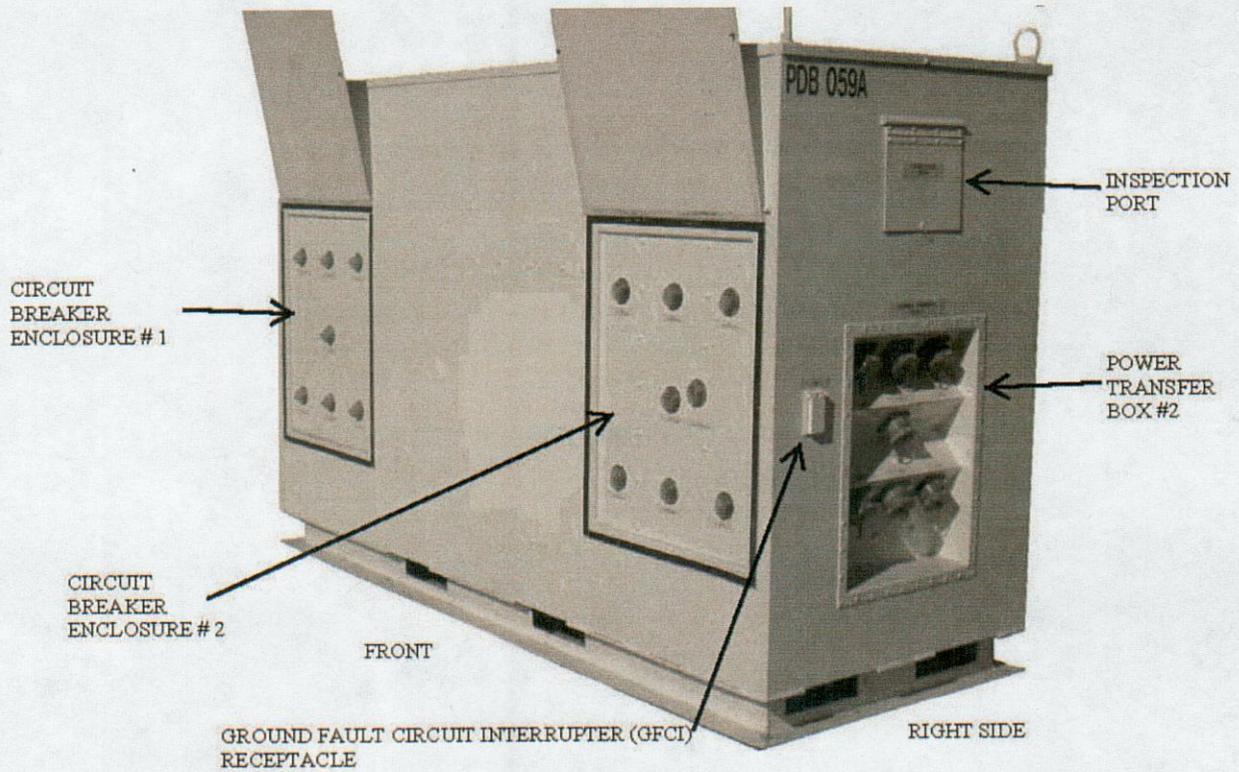


Figure 3 Tactical Electrical Power Distribution System

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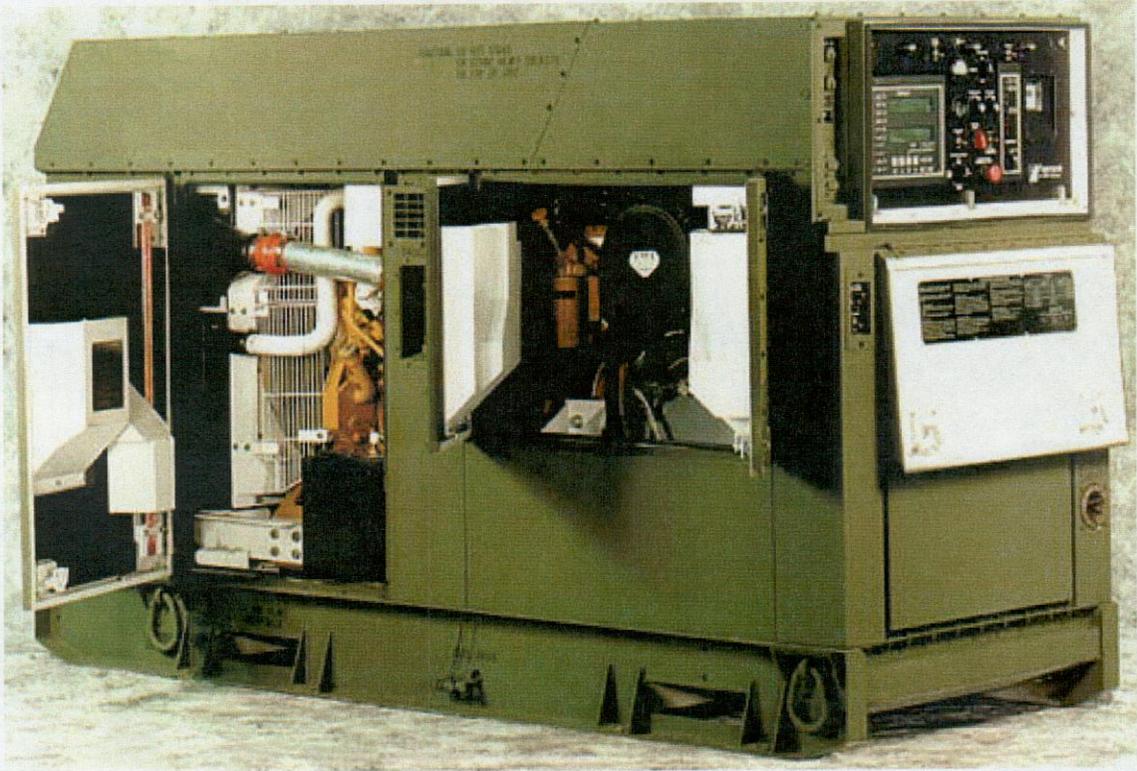


Figure 4. MEP-807A Tactical Quiet Generator

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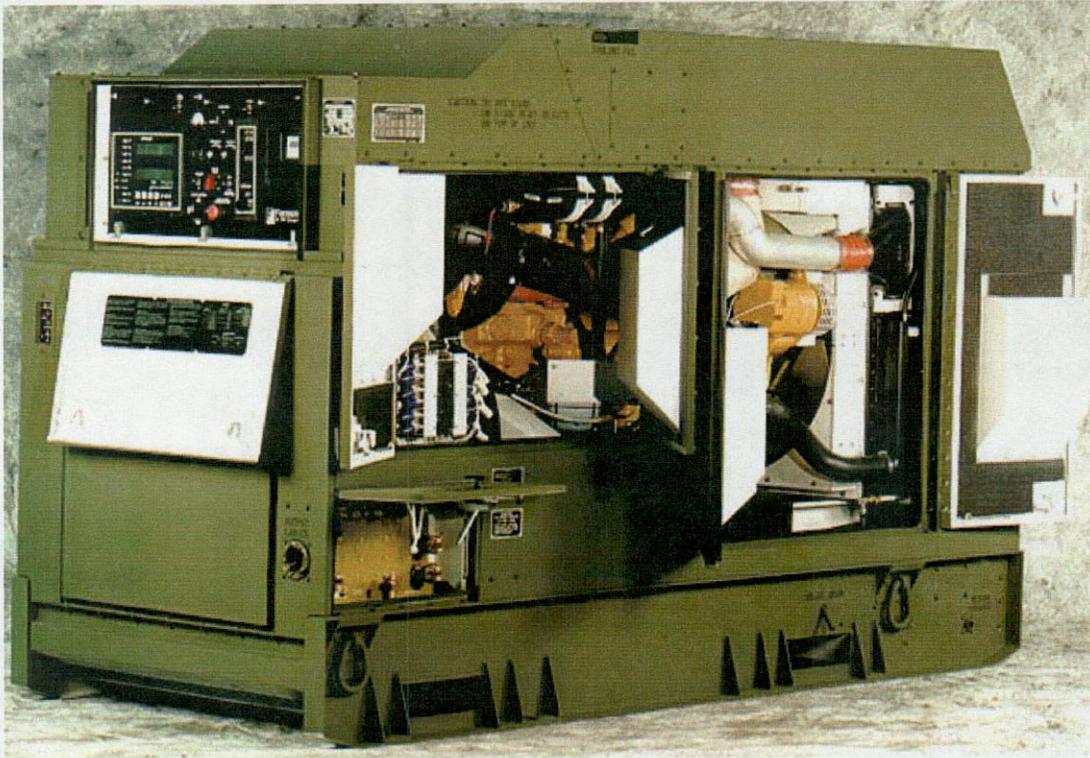


Figure 5. MEP- 809A Tactical Quiet Generator