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9 October 1975
SUPERSEDING
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MILITARY SPECIFICATION SHEET

MOBILE FACILITY; BASIC UNIT

This specification has been approved by the Naval Air Systems Command, Department of the Navy.

The complete requirements for procuring the Mobile Facility described herein shall consist of this document and the issue in effect of MIL-M-81957.

REQUIREMENTS

- 1. <u>Size</u> Nominal size of the Mobile Facility (hereinafter referred to as "The Unit") shall be 8 feet wide, 8 feet high by 20 feet long.
- Weight ratings
 - a. Tare weight Tare weight of the unit shall not exceed 4,400 pounds.
- b. Maximum payload The unit shall be designed and constructed to operate with a maximum payload of 15,600 pounds.
- c. Design gross weight (R) The design gross weight (tare weight plus maximum payload) on which the structural design and testing are based shall be 20,000 pounds except that 44,800 pounds shall apply for stacking requirements.
- d. <u>Design load factors</u> The design load factors shall be in accordance with (American National Standard Institute) ANSI MH 5.1, except that all factors for Air-rotary wing shall be deleted.
- 3. <u>Doors</u> Two personnel doors with 48 inches wide by 76 inches high openings shall be provided, one located in the center of each end panel. The doors shall be flush with the floor within 3/16 of an inch. In addition to the personnel doors, one air conditioner opening with removable panel shall be provided in the location depicted in Naval Air Engineering Center (NAEC) drawing 6SE00259. This panel shall be flush mounted and

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constructed in accordance with the criteria established for the side panels. It shall be demonstrated, by simulation, that the panel is removable and readily unlatched from the interior of the unit with the air conditioner in place.

- Butting kit When specified in the contract or order butting kits shall be provided by the contractor. The butting kit will be used to enclose a passageway when two units are butted together end to end. The butting kit shall be constructed of heavy duty, fireresistant, oilproof, waterproof, opaque and thermal insulated materials. The butting kit shall be flexible enough to permit the two units to be separated by three to ten inches and by four (4) inches off on the horizontal plane. The top surface of the butting kit shall be designed to prevent the accumulation of rain water. All securing devices, if used, shall be captivated and shall be large enough to be operated by personnel wearing arctic type gloves. If frames are used in the design of the butting kit, the frames shall contain sufficient gaskets and seals so that it will be watertight and prevent light transmission when secured to the units.
- 5. <u>Identification</u> The identification plate, required by the basic specification, shall be located near the lower corner fitting closest to the air conditioner door.
- 6. Air conditioner front panel and slide assembly One air conditioner front panel and slide assembly configured in accordance with NAEC drawing number 6SE00259 shall be provided with each unit.
- 7. <u>Power distribution panel</u> A power distribution panel assembly shall be provided with each unit. The panel shall be in accordance with NAEC drawing number 6SE00223.
- 8. <u>Finish</u> The entire unit including all hardware (handles, hinges and screws, etc.) shall be given a protective finish in accordance with MIL-R-14072 except that the final coat shall be in accordance with the following:
- a. Exterior Exterior surfaces shall be glossy white, color 17875 per FED-STD-595, polyurethane per MIL-C-81773 applied over an epoxy primer in accordance with MIL-P-23377.
- b. Interior The ceiling shall be semi-gloss enamel in accordance with TT-E-529, color 27875 per FED-STD-595. The walls shall be Woodland Green semi-gloss enamel, Glidden Spred Luster.
- 9. Skids Three (3) removable skids, three inches in height and three inches wide, shall be provided on the underside of the unit and located in accordance with Figure 1. The two outer skids shall each be equipped with four floating (+ 1/4 inch) stainless steel, 5/8-11 UNC, captivated nuts

located as shown in Figure 1. Both ends of each skid shall be welded closed. Each skid shall be of a length to permit them to be placed longitudinally inside the unit during transportation. The skids shall be capable of supporting the design gross weight of the unit and shall meet the interchangeability requirements of the basic specification. The overall height of the unit, specified in ANSI MH 5.4, will be increased by three inches when the skids are installed as a result of this requirement.

QUALITY ASSURANCE PROVISIONS

- 10. Butting kit leak test The butting kit leak test shall be conducted as follows:
 - (a) Position two units so they are separated by ten inches; and are four inches off the horizontal plane.
 - (b) Install a butting kit so as to connect the two units to each other.
 - (c) Using a 1/2 inch ID nozzle, having a minimum pressure at the nozzle of 15 PSIG, apply a stream of water to all sides of the butting kit from a distance not greater than five feet for not less than one minute.

There shall be no penetration of water through the butting kit or the units.

11. Skid bearing test - The unit, loaded to the design gross weight shall be balanced on a two inch pipe located anywhere along the three skids. The skids shall experience no fractures or ruptures, and no permanent deformation beyond 1/4 inch shall be permitted as a result of this test.

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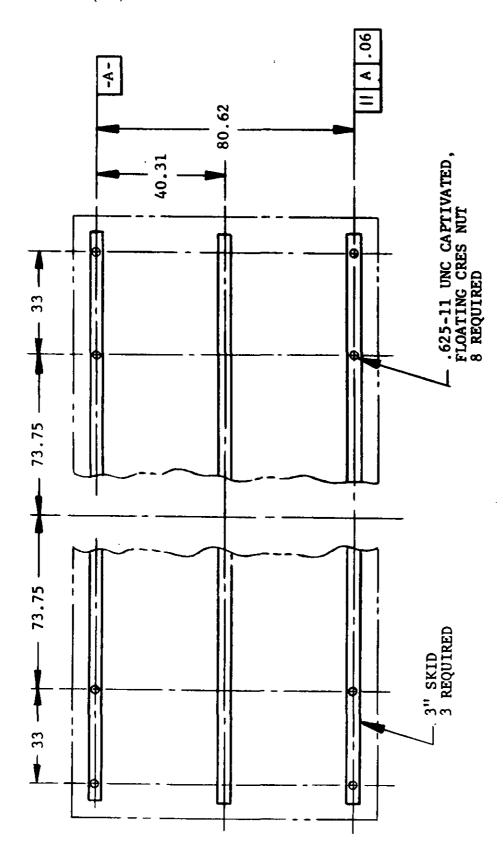


FIGURE 1. SKID LOCATION