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USACE / NAVFAC / AFCEA / NASA            UFGS-01 73 19 (April 2006)  
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Preparing Activity:    NAVFAC            Replacing without change  
                                         UFGS-11708 (August 2004)

UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated 18 July 2006

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### SECTION 01 73 19

#### INSTALLATION OF GOVERNMENT-FURNISHED MEDICAL EQUIPMENT 04/06

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NOTE: This guide specification covers the requirements for the removal or relocation of Government-furnished and Contractor-installed existing medical equipment.

Comments and suggestions on this guide specification are welcome and should be directed to the technical proponent of the specification. A listing of technical proponents, including their organization designation and telephone number, is on the Internet.

Recommended changes to a UFGS should be submitted as a Criteria Change Request (CCR).

Use of electronic communication is encouraged.

Brackets are used in the text to indicate designer choices or locations where text must be supplied by the designer.

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NOTE: On the drawings, show item locations.

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## PART 1 GENERAL

### 1.1 SUBMITTALS

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NOTE: Review submittal description (SD) definitions in Section 01 33 00 SUBMITTAL PROCEDURES and edit the following list to reflect only the submittals required for the project. Submittals should be kept to the minimum required for adequate quality control.

A "G" following a submittal item indicates that the submittal requires Government approval. Some submittals are already marked with a "G". Only delete an existing "G" if the submittal item is not complex and can be reviewed through the Contractor's

Quality Control system. Only add a "G" if the submittal is sufficiently important or complex in context of the project.

For submittals requiring Government approval on Army projects, a code of up to three characters within the submittal tags may be used following the "G" designation to indicate the approving authority. Codes for Army projects using the Resident Management System (RMS) are: "AE" for Architect-Engineer; "DO" for District Office (Engineering Division or other organization in the District Office); "AO" for Area Office; "RO" for Resident Office; and "PO" for Project Office. Codes following the "G" typically are not used for Navy, Air Force, and NASA projects.

Choose the first bracketed item for Navy, Air Force and NASA projects, or choose the second bracketed item for Army projects.

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Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are [for Contractor Quality Control approval.][for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government.] The following shall be submitted in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

#### SD-06 Test Reports

Equipment inspection[; G][; G, [\_\_\_\_]]

Submit an inspection report for any equipment found in unsatisfactory condition.

### 1.2 LOCATION

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NOTE: The exact location will be indicated by Contracting Officer.

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This equipment is currently located at [\_\_\_\_].

## PART 2 PRODUCTS

### 2.1 ITEMS

Remove the following equipment from existing location[s]. Protect, transport, and install where indicated. Assume that all items to be relocated are in satisfactory operating condition unless otherwise indicated. Report in writing to Contracting Officer any equipment found to be in unsatisfactory condition.

[a. Item \_\_\_\_\_, \_\_\_\_\_.]

[b. Item \_\_\_\_\_, \_\_\_\_\_.]

[c. Item \_\_\_\_\_, \_\_\_\_\_.]

## PART 3 EXECUTION

### 3.1 REMOVAL OF EQUIPMENT FROM EXISTING LOCATION[S]

#### 3.1.1 Equipment Removal Schedule

Coordinate equipment removal schedule with Contracting Officer.

##### 3.1.1.1 Facility Shutdown

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NOTE: Delete this paragraph when existing building  
is not operational or is to be demolished.  
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Minimize shutdown of building operations. Coordinate with Contracting Officer concerning allowance of maximum shutdown time.

##### 3.1.1.2 Utilities Shutdown

Do not turn off any utilities without approval of Contracting Officer.

#### 3.1.2 Removal

Remove equipment in accordance with Section [02 41 00 DEMOLITION.]

#### 3.1.3 Protection of Building and Occupants

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NOTE: In locations where asbestos lagging and/or  
gasket removal are encountered, take special  
precautions to maintain airborne concentration of  
asbestos fibers within permissible exposure limits.  
  
1. "Time Weighted Average (TWA)" - an 8 hour,  
time-weighted average airborne concentration of  
fibers longer than 5 micrometers per cubic  
centimeter of air.  
  
2. "Ceiling Limit" - Civilian employees and  
military personnel shall not be exposed to airborne  
concentrations of asbestos in excess of 0.5 fibers  
longer than 5 micrometers per cubic centimeter of  
air, on an 8 hour, time-weighted average.  
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Take the necessary precautions to protect building from damage and occupants from injury.

##### 3.1.3.1 Pipelines

Cap and label pipelines to and from removed equipment.

##### 3.1.3.2 Wiring

- a. Wiring Not Required To Serve Medical Equipment in Future: Cover and insulate all exposed wires to and from removed equipment.

Plug all holes in outlet boxes left open as result of wiring removal. Provide covers for all outlet boxes.

- b. "Hard-Wired" Equipment: Remove wiring serving each piece of equipment back to distribution panel. Deenergize circuit breaker and label as spare. Remove all exposed conduit. Where conduit enters walls, floor or ceiling, cut flush with surface. Repair and refinish surface.

#### 3.1.3.3 Floors

Cover all floor openings and flag projections.

#### 3.1.4 Patching and Repairing of Existing Facilities

The patching and repairing shall be in accordance with Section [02 41 00 DEMOLITION.]

### 3.2 PROTECTION

#### 3.2.1 Utilities Piping

Close all pipe openings left open as a result of the removal of electrical wires with caps or plugs to prevent entry of foreign objects.

#### 3.2.2 Equipment

Tightly cover and protect equipment against dirt, moisture, or mechanical or chemical damage.

#### 3.2.3 Repair

Repair or replace any Government property damaged by Contractor.

### 3.3 RELOCATION

#### 3.3.1 Installation

Install each piece of equipment in accordance with Section 11 70 00 GENERAL REQUIREMENTS FOR MEDICAL AND DENTAL EQUIPMENT."

#### 3.3.2 Utility Connections

Provide final utility connections and service to equipment, including waste, under Section[s] [23 03 00.00 20 BASIC MECHANICAL MATERIALS AND METHODS[.] [;]] [22 00 00 PLUMBING SYSTEMS[.] [;]] [22 62 13.00 20 MEDICAL GAS AND VACUUM PIPING[.] [;]] [26 00 00.00 20 BASIC ELECTRICAL MATERIALS AND METHODS[.] [;]] [and] [26 20 00 INTERIOR DISTRIBUTION SYSTEM.]

### 3.4 FIELD QUALITY CONTROL

#### 3.4.1 Equipment Inspection

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NOTE: Existing equipment of a specialized or sophisticated nature shall be inspected, tested, adjusted and repaired only by a qualified specialist or a factory-trained representative.  
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Examine each piece of equipment for visual defects. Correct defects in accordance with all applicable specifications.

#### 3.4.2 Tests

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NOTE: Existing equipment of a specialized or  
sophisticated nature shall be inspected, tested,  
adjusted and repaired only by a qualified specialist  
or a factory-trained representative.  
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Test each piece of equipment to ensure that the it is operational.  
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