
USACE / NAVFAC / AFCEA UFGS-02220 (September 2003)

Preparing Activity: USACE

Superseding
UFGS-02220 (May 2002)

UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated 25 June 2004

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DIVISION 02 - SITE CONSTRUCTION

SECTION 02220

DEMOLITION

09/03

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SECTION 02220

DEMOLITION 09/03

NOTE: This guide specification covers the requirements for demolition and/or removal work as a part of new construction or renovation work.

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.

PART 1 GENERAL

1.1 REFERENCES

NOTE: Issue (date) of references included in project specifications need not be more current than provided by the latest guide specification. Use of SpecsIntact automated reference checking is recommended for projects based on older guide specifications.

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AIR-CONDITIONING AND REFRIGERATION INSTITUTE (ARI)

ARI Guideline K

(1997) Containers for Recovered

Fluorocarbon Refrigerants

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ANSI A10.6 (1990; R 1998) Safety Requirements for Demolition Operations

U.S. ARMY CORPS OF ENGINEERS (USACE)

EM 385-1-1 (2003) Safety -- Safety and Health Requirements

U.S. DEFENSE LOGISTICS AGENCY (DLA)

DLA 4145.25 (June 2000) Storage and Handling of Liquefied and Gaseous Compressed Gases and Their Full and Empty Cylinders

U.S. DEPARTMENT OF DEFENSE (DOD)

DOD 4000.25-1-M (2000) Requisitioning and Issue Procedures

MIL-STD-129 (Rev P) Military Marking for Shipment and Storage

U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)

40 CFR 61-SUBPART M National Emission Standard for Asbestos

40 CFR 82 Protection of Stratospheric Ozone

49 CFR 173.301 Shipment of Compressed Gases in Cylinders and Spherical Pressure Vessels

1.2 GENERAL REQUIREMENTS

NOTE: Make a determination as to whether any material of a hazardous nature, as classified in the National Emissions Standards, OSHA, or EPA regulations, will result from the work described. If such material is determined likely, specify precautions and standards to be complied with. Since the Contractor performs the work, he shall be the one responsible for complying with all necessary regulations.

Protect personnel from possible airborne contaminants, such as asbestos fibers and metal dusts.

Coordinate with other sections as necessary.

For Navy projects: Contact an industrial hygienist at (1) a Navy Regional Medical Center, (2) A Navy Environmental and Preventive Medicine Unit, or (3) the Navy Environmental Health Center for assistance. Disposal of materials shall not endanger or pollute the environment. Obtain assistance from the

environmental branch of the Engineering Field
Division of the Naval Facilities Engineering Command
or from the Naval Facilities Engineering Service
Center, Port Hueneme, California.

Non-friable materials containing asbestos, such as
cement-asbestos siding and roofing and
vinyl-asbestos flooring materials, normally do not
require special handling and disposal procedures
unless such materials are sawn, ground, sanded,
drilled, pulverized, or handled in such a manner
that will cause dust and airborne asbestos fiber to
be released. Thus the removal of non-friable
asbestos will not normally require the use of
Section 13281N, ENGINEERING CONTROL OF ASBESTOS
CONTAINING MATERIALS. If the project contains
non-friable asbestos that is considered to be
hazardous due to material condition (broken down or
excessively old and decayed) or demolition
procedures to be used, then specify the non-friable
asbestos to be removed in accordance with Section
13281N, ENGINEERING CONTROL OF ASBESTOS CONTAINING
MATERIALS.

For "LANTNAVFACENGCOM" projects use "project site"
in Guantanamo Bay, Cuba; for all other projects use
"station daily."

Do not begin demolition until authorization is received from the
Contracting Officer. [Remove rubbish and debris from the [station daily]
[project site]; do not allow accumulations [inside or outside the
building[s]] [on airfield pavements].] [The work includes demolition,
salvage of identified items and materials, and removal of resulting rubbish
and debris. Rubbish and debris shall be removed from Government property
daily, unless otherwise directed, to avoid accumulation at the demolition
site. Materials that cannot be removed daily shall be stored in areas
specified by the Contracting Officer.] In the interest of occupational
safety and health, the work shall be performed in accordance with EM 385-1-1,
Section 23, Demolition, and other applicable Sections. In the interest of
conservation, salvage shall be pursued to the maximum extent possible (in
accordance with Section 01572 CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT,
if applicable; salvaged items and materials shall be disposed of as
specified.

1.3 SUBMITTALS

NOTE: Submittals must be limited to those necessary
for adequate quality control. The importance of an
item in the project should be one of the primary
factors in determining if a submittal for the item
should be required.

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 projects.

Submittal items not designated with a "G" are considered as being for information only for Army projects and for Contractor Quality Control approval for Navy projects.

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 01330 SUBMITTAL PROCEDURES:

NOTE: Where premises are occupied, certain spaces may exist where activities cannot be interrupted or disturbed during normal working hours. To prevent disputes or possible contract claims resulting from restriction of demolition or removal work in such spaces, provisions for scheduling of the work must be specified in the contract documents. Restrictions for scheduling of demolition or removal work in areas adjacent to or in occupied spaces should reflect the requirements resulting from the consultation with occupants of the affected spaces. These provisions are necessary to alert prospective bidders about the spaces where business is not to be interrupted or disturbed during construction.

Delete requirements if inapplicable.

Where suspect deck conditions are encountered during design investigation, identify and include appropriate repair and safety provisions in the design documents to draw attention to the suspect areas and the need for additional safety precautions.

Include "Notification of Demolition and Renovation" form for Hawaii only.

SD-07 Certificates

Demolition plan[; G][; G, [____]]

Notifications[; G][; G, [____]]

[Notification of Demolition and Renovation forms[; G][; G, [____]]

Submit proposed [salvage,] demolition and removal procedures [to the Contracting Officer] for approval before work is started.

SD-11 Closeout Submittals

Receipts

Receipts or bills of lading, as specified.

1.4 REGULATORY AND SAFETY REQUIREMENTS

Comply with federal, state, and local hauling and disposal regulations. In addition to the requirements of the "Contract Clauses," safety requirements shall conform with ANSI A10.6.

1.4.1 Notifications

1.4.1.1 General Requirements

Furnish timely notification of [demolition] [and] [renovation] projects to Federal, State, regional, and local authorities in accordance with 40 CFR 61-SUBPART M. Notify the [Regional Office of the United States Environmental Protection Agency (USEPA)] [State's environmental protection agency] [local air pollution control district/agency] and the Contracting Officer in writing 10 working days prior to the commencement of work in accordance with 40 CFR 61-SUBPART M.

1.4.1.2 Hawaii Requirements

NOTE: Use the following for Hawaii projects only.
"Notification of Demolition and Renovation" form is required for all demolition involving "load-supporting" structures and/or asbestos work. Use the first bracket for "demolition" work that does not involve asbestos, or "demolition" work where the combined amount of RACM to be stripped, removed, dislodged, cut, drilled, or similarly disturbed is less than 80 linear meters (260 linear feet) on pipes or less than 15 square meters (160 square feet) on other facility components. Use the second bracket for "demolition" and/or "renovation" work when the amount of RACM is greater than those stated above.

"Demolition" means the wrecking or taking out of any "load-supporting structural member" of a facility together with any related handling operations or the intentional burning of any facility. "Renovation" means altering a facility or one or more facility components in any way, including the stripping or

removal of RACM from a facility component.
"Regulated asbestos-containing material" (RACM)
means:

1. Friable asbestos material;
2. Category I nonfriable ACM that has become friable;
3. Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or;
4. Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by this subpart.

The designer will complete paragraphs III.A, V, VI, VII, and ensure the quantity of asbestos indicated reflects what is shown on the drawings.

To minimize the possibility of contested ownership of materials or equipment in structures to be demolished, the following letter should be sent to the station sufficiently in advance of the date on which action is required, and the response thereto incorporated in either the project specifications or bidding documents. The Government will prepare this letter. For project prepared by an A/E, the A/E shall notify the Government of the need for this correspondence.

From: (Appropriate EDF Activity)

To: Commanding Officer, (Station)

Subj: Contract (Number) - [____]:
(Including Demolition of [(____)])

1. This activity is preparing the documents preliminary to advertising the subject contract for bids. A portion of this contract will be concerned with the ownership of the materials in the structure(s) and the contents of the building(s) to be demolished. It is normal practice to specify that the structures, and all equipment or other material inside the structures at the time the contract is advertised for bids, become the property of the Contractor.

2. Accordingly, it is requested that this activity be advised of the existence of any material or equipment within the limits of the contract which is to remain the property of the Government. A negative reply is requested. If there is any material or equipment in this category, it is

requested that action be initiated to remove it from the limits of the contract. If prompt removal is impractical, it will be necessary for the station to make a complete inventory of, and tag or mark, each item which is to remain the property of the Government. A copy of the inventory, a description of the tag or mark used, and the desired disposition of the item must be forwarded to this activity for inclusion in the specification or bidding documents.

Advise on the disposition of Class I ODS refrigerant which can not be sold or transferred outside of the Navy without written authorization from the Chief of Naval Operations or the Commandant of the Marine Corps.

3. In the past, this activity has experienced considerable difficulty where a building evacuated prior to demolition is then used to store other material or equipment temporarily and the items were in storage during the bid advertising period. Upon award of the contract, the Contractor claimed the material and either removed it or claimed and was awarded compensation for it. Therefore, it is requested that the structure(s) to be demolished which are included in this contract not be used for temporary storage during the bid advertising period.

4. It is requested that the reply to this letter be sent to this activity not later than [60] [_____] days after the date of this letter. Failure to do so may result in unnecessary cost to the Government in claims.

a. Insert name of contract and identify buildings(s) to be included under contract. Further revise as necessary to suit conditions.

Complete and submit Notification of Demolition and Renovation forms to Federal and State authorities and Contracting Officer, postmarked or delivered at least ten working days prior to commencement of work, in accordance with 40 CFR 61-SUBPART M. [Complete paragraphs I, II, III.B, III.C (if applicable), IX, and XVI of form.] [Complete paragraphs I, II, III.B, III.C (if applicable), VIII, and IX thru XIX of form.] Copy of form is attached at end of this section.

1.4.2 Receipts

Submit a shipping receipt or bill of lading for all containers of ozone depleting substance (ODS) shipped to the Defense Depot, Richmond, Virginia.

1.5 DUST [AND DEBRIS] CONTROL

NOTE: Make a determination as to whether any material of a hazardous nature, as classified in the National Emissions Standards, OSHA, or EPA regulations, will result from the work described. If such material is determined likely, specify

precautions and standards to be complied with. Since the Contractor performs the work, he shall be the one responsible for complying with all necessary regulations. Protect personnel from possible airborne contaminants, such as asbestos fibers and metal dusts. Refer to and coordinate with Section 01575N TEMPORARY ENVIRONMENTAL CONTROLS and Section 13281N ENGINEERING CONTROL OF ASBESTOS CONTAINING MATERIALS. Contact an industrial hygienist at (1) a Navy Regional Medical Center, (2) A Navy Environmental and Preventive Medicine Unit, or (3) the Navy Environmental Health Center for assistance. Disposal of materials shall not endanger or pollute the environment. Obtain assistance from the environmental branch of the Engineering Field Division of the Naval Facilities Engineering Command or from the Naval Facilities Engineering Service Center, Port Hueneme, California. Non-friable materials containing asbestos, such as cement-asbestos siding and roofing and vinyl-asbestos flooring materials, normally do not require special handling and disposal procedures unless such materials are sawn, ground, sanded, drilled, pulverized, or handled in such a manner that will cause dust and airborne asbestos fiber to be released. Thus the removal of non-friable asbestos will not normally require the use of Section 13281, "Engineering Control of Asbestos Containing Materials." If the project contains non-friable asbestos that is considered to be hazardous due to material condition (broken down or excessively old and decayed) or demolition procedures to be used, then specify the non-friable asbestos to be removed in accordance with Section 13281N ENGINEERING CONTROL OF ASBESTOS CONTAINING MATERIALS.

Prevent the spread of dust [and debris] [to occupied portions of the building] [on airfield pavements] and avoid the creation of a nuisance [or hazard] in the surrounding area. Do not use water if it results in hazardous or objectionable conditions such as, but not limited to, ice, flooding, or pollution. [Vacuum and dust the work area [daily] [____].] [Sweep pavements as often as necessary to control the spread of debris that may result in foreign object damage potential to aircraft.]

1.6 PROTECTION

NOTE: Delete requirements if inapplicable.

1.6.1 Traffic Control Signs

Where [pedestrian and driver] [aircraft] safety is endangered in the area of removal work, use traffic barricades with flashing lights. [Anchor barricades in a manner to prevent displacement by jet or prop blast.] Notify the Contracting Officer prior to beginning such work.

1.6.2 Existing Work

Before beginning any demolition work, the Contractor shall survey the site and examine the drawings and specifications to determine the extent of the work. The Contractor shall take necessary precautions to avoid damage to existing items to remain in place, to be reused, or to remain the property of the Government; any damaged items shall be repaired or replaced as approved by the Contracting Officer. The Contractor shall coordinate the work of this section with all other work and shall construct and maintain shoring, bracing, and supports as required. The Contractor shall ensure that structural elements are not overloaded and shall be responsible for increasing structural supports or adding new supports as may be required as a result of any cutting, removal, or demolition work performed under this contract. Do not overload [structural elements][pavements to remain]. Provide new supports and reinforcement for existing construction weakened by demolition or removal work. Repairs, reinforcement, or structural replacement must have Contracting Officer approval.

1.6.3 Weather Protection

For portions of the building to remain, protect building interior and materials and equipment from the weather at all times. Where removal of existing roofing is necessary to accomplish work, have materials and workmen ready to provide adequate and temporary covering of exposed areas so as to ensure effectiveness and to prevent displacement.

1.6.4 Trees

Trees within the project site which might be damaged during demolition, and which are indicated to be left in place, shall be protected by a 1.8 m (6 foot) 6 foot high fence. The fence shall be securely erected a minimum of 1.5 m 5 feet from the trunk of individual trees or follow the outer perimeter of branches or clumps of trees. Any tree designated to remain that is damaged during the work under this contract shall be replaced in kind or as approved by the Contracting Officer.

1.6.5 Facilities

Protect electrical and mechanical services and utilities. Where removal of existing utilities and pavement is specified or indicated, provide approved barricades, temporary covering of exposed areas, and temporary services or connections for electrical and mechanical utilities. Floors, roofs, walls, columns, pilasters, and other structural components that are designed and constructed to stand without lateral support or shoring, and are determined to be in stable condition, shall remain standing without additional bracing, shoring, or lateral support until demolished, unless directed otherwise by the Contracting Officer. The Contractor shall ensure that no elements determined to be unstable are left unsupported and shall be responsible for placing and securing bracing, shoring, or lateral supports as may be required as a result of any cutting, removal, or demolition work performed under this contract.

1.6.6 Protection of Personnel

During the demolition work the Contractor shall continuously evaluate the condition of the structure being demolished and take immediate action to protect all personnel working in and around the demolition site. No area, section, or component of floors, roofs, walls, columns, pilasters, or other structural element will be allowed to be left standing without sufficient

bracing, shoring, or lateral support to prevent collapse or failure while workmen remove debris or perform other work in the immediate area.

1.7 BURNING

The use of burning at the project site for the disposal of refuse and debris [will not be permitted] [will be permitted in the area located [_____] and between the hours of [_____] and [_____]]. Where burning is permitted, adherence to federal, state, and local regulations shall be required.

1.8 FOREIGN OBJECT DAMAGE (FOD)

NOTE: Delete requirements if inapplicable.

Some large scale apron, hangar, or other type projects to be constructed adjacent to areas with operational aircraft may require temporary barricades or debris fences installed in place prior to the start of work. The station's air operations and public works departments must be contacted by the designer to determine project requirements. If fences or other type barricades are required, they must be designed and located to suit the project

Aircraft and aircraft engines are subject to FOD from debris and waste material lying on airfield pavements. Remove all such materials that may appear on operational aircraft pavements due to the Contractor's operations. If necessary, the Contracting Officer may require the Contractor to install a temporary barricade at the Contractor's expense to control the spread of FOD potential debris. The barricade shall consist of a fence covered with a fabric designed to stop the spread of debris; anchor the fence and fabric to prevent displacement by winds or jet/prop blasts. Remove barricade when no longer required.

1.9 RELOCATIONS

Perform the removal and reinstallation of relocated items as indicated with workmen skilled in the trades involved. Repair items to be relocated which are damaged or replace damaged items with new undamaged items as approved by the Contracting Officer.

1.10 REQUIRED DATA

Demolition plan shall include procedures for [careful removal and disposition of materials specified to be salvaged,] coordination with other work in progress[, a disconnection schedule of [utility services,] [and] [airfield lighting,] a detailed description of methods and equipment to be used for each operation and of the sequence of operations]. [Include statements affirming Contractor inspection of the existing roof deck and its suitability to perform as a safe working platform or if inspection reveals a safety hazard to workers, state provisions for securing the safety of the workers throughout the performance of the work.] The procedures shall provide for safe conduct of the work in accordance with EM 385-1-1.

1.11 ENVIRONMENTAL PROTECTION

The work shall comply with the requirements of Section [01355A ENVIRONMENTAL PROTECTION] [_____].

1.12 USE OF EXPLOSIVES

Use of explosives [will] [will not] be permitted.

1.13 AVAILABILITY OF WORK AREAS

Areas in which the work is to be accomplished will be available in accordance with the following schedule:

Area	Date
_____	_____
[_____]	[_____]

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

3.1 EXISTING FACILITIES TO BE REMOVED

3.1.1 Structures

NOTE: Where necessary, add additional requirements relating to specific types of existing construction such as masonry, concrete, and other special requirements for removal work. It is very difficult to specify particular removal criteria in a guide specification or even a project specification. It may be more advantageous to show the work on the drawings.

Existing structures indicated shall be removed [to grade] [to top of foundation walls] [to [_____] meters feet below grade]. Interior walls, other than retaining walls and partitions, shall be removed to [_____] meters feet below grade or to top of concrete slab on ground. Basement slabs shall be broken up to permit drainage. Sidewalks, curbs, gutters and street light bases shall be removed as indicated.

3.1.2 Utilities and Related Equipment

NOTE: Where the materials, meters, or related equipment to be affected in the area of demolition are the property of the local utility companies and not of the Government, the specifier shall contact them, determine the disposition of the existing utilities, and modify the requirements herein as needed.

Remove existing utilities [, as indicated] [uncovered by work] and terminate in a manner conforming to the nationally recognized code covering the specific utility and approved by the Contracting Officer. When utility lines are encountered that are not indicated on the drawings, the Contracting Officer shall be notified prior to further work in that area. Remove meters and related equipment and deliver to a location [on the station] in accordance with instructions of the Contracting Officer. If utility lines are encountered that are not shown on drawings, contact the Contracting Officer for further instructions.

3.1.3 Paving and Slabs

NOTE: Delete requirements if inapplicable.

[Remove [ground] [scarified] [sawcut] concrete and asphaltic concrete paving and slabs [including aggregate base] [as indicated] to a depth of [_____] mm [_____] inches below [existing adjacent] [new finish] grade. [Provide neat sawcuts at limits of pavement removal as indicated.]]

3.1.4 Roofing

NOTE: Delete requirements if inapplicable.

Where suspect deck conditions are encountered during design investigation, identify and include appropriate repair and safety provisions in the design documents to draw attention to the suspect areas and the need for additional safety precautions.

[Remove existing roof system and associated components in their entirety down to existing roof deck.] [Remove [built-up] [single-ply] roofing to effect the connections with new flashing or roofing.] [Remove gravel surfacing from existing roofing felts for a minimum distance of 450 mm 18 inches back from the cut. Remove gravel without damaging felts.] [Cut existing [felts] [membrane] [and insulation] along straight lines.] [Remove roofing system [and insulation] without damaging the roof deck.] Sequence work to minimize building exposure between demolition and new roof materials installation. Install temporary roofing and flashing as necessary to maintain a watertight condition throughout the course of the work. Remove temporary work prior to installation of permanent roof system materials unless approved otherwise by the Contracting Officer. [The existing [deck] [and support structure] is deteriorated where indicated, such that ability to support foot traffic and construction loads is unknown. Make provisions for worker safety during demolition and installation of new materials as described in paragraphs entitled "Statements" and "Regulatory and Safety Requirements." Sequence the work to minimize hazard to workers.]

3.1.4.1 Reroofing

When removing the existing roofing system from the roof deck, remove only as much roofing as can be recovered by the end of the work day, unless approved otherwise by the Contracting Officer. No opening in the roof cover shall be attempted in threatening weather and any opening made shall be resealed prior to suspension of work the same day.

3.1.5 Masonry

Sawcut and remove masonry so as to prevent damage to surfaces to remain [and to facilitate the installation of new work]. Where new masonry adjoins existing, the new work shall abut or tie into the existing construction as [indicated] [specified for the new work].

3.1.6 Concrete

Saw concrete along straight lines to a depth of not less than 50 mm 2 inches. Make each cut in walls perpendicular to the face and in alignment with the cut in the opposite face. Break out the remainder of the concrete provided that the broken area is concealed in the finished work, and the remaining concrete is sound. At locations where the broken face cannot be concealed, grind smooth or saw cut entirely through the concrete.

3.1.7 Airfield Lighting

Remove existing airfield lighting as indicated and terminate in a manner satisfactory to the Contracting Officer. Remove [edge lights], [associated transformers] [and] [_____] as indicated and [deliver to a location on the station in accordance with instructions of the Contracting Officer]. [dispose of off station]. [_____].

3.1.8 Patching

Where removals leave holes and damaged surfaces exposed in the finished work, patch and repair these holes and damaged surfaces to match adjacent finished surfaces. Where new work is to be applied to existing surfaces, perform removals and patching in a manner to produce surfaces suitable for receiving new work. Finished surfaces of patched area shall be flush with the adjacent existing surface and shall match the existing adjacent surface as closely as possible as to texture and finish. Patching shall be as specified and indicated, and shall include:

- a. Holes and depressions [caused by previous physical damage or] left as a result of removals in existing masonry walls to remain shall be completely filled with an approved masonry patching material, applied in accordance with the manufacturer's printed instructions.
- b. Where existing partitions have been removed leaving damaged or missing resilient tile flooring, patch to match the existing floor tile.
- c. Patch acoustic lay-in ceiling where partitions have been removed. The transition between the different ceiling heights shall be effected by continuing the higher ceiling level over to the first runner on the lower ceiling and closing the vertical opening with a painted sheet metal strip.

3.1.9 Air Conditioning Equipment

NOTE: Delete requirements if inapplicable.

NOTE: Quantify by weight the amount and type of refrigerant to be recovered and indicate on plans.

NOTE: Directives from the Secretary of the Navy prohibit sale or transfer of Class I ODS materials outside of the Navy without prior approval from the Chief of Naval Operations or the Commandant of the Marine Corps.

[Remove air conditioning equipment without releasing chlorofluorocarbon refrigerants to the atmosphere in accordance with the Clean Air Act Amendment of 1990.] [Recover all refrigerants prior to removing air conditioning equipment and dispose of in accordance with the paragraph entitled "Disposal of Ozone Depleting Substance (ODS)."] [Turn in salvaged Class I ODS refrigerants as specified in paragraph, "Salvaged Materials and Equipment."]

3.1.10 Cylinders and Canisters

Remove all fire suppression system cylinders and canisters and dispose of in accordance with the paragraph entitled "Disposal of Ozone Depleting Substance (ODS)."

3.1.11 Locksets on Swinging Doors

NOTE: Use this paragraph when demolition includes removal and disposal of hinged or pivoted swinging doors. (This is a security measure.)

The Contractor shall remove all locksets from all swinging doors indicated to be removed and disposed of. Contractor shall give the locksets to the Contracting Officer after their removal.

3.2 FILLING

NOTE: Reference the applicable specification section which includes the filling requirements; otherwise specify here. Caution must be taken to prevent uncovered holes and other such hazards. If work is to be under a separate contract and subsequent filling is not required under the separate contract, arrangements must be made to have the filling done under this contract.

Holes, open basements and other hazardous openings shall be filled in accordance with Section [_____] [as follows: [_____]].

3.3 DISPOSITION OF MATERIAL

NOTE: This article entitled "Disposition of Material" and the paragraphs that follow are for all projects except as noted.

3.3.1 Title to Materials

NOTE: To minimize the possibility of contested ownership of materials or equipment in structures to be demolished, the following letter should be sent to the station sufficiently in advance of the date on which action is required, and the response thereto incorporated in either the project specifications or bidding documents. The Government shall prepare this letter. For project prepared by an A/E, the A/E shall notify the Government the need for this correspondence.

From: (Appropriate EDF Activity)

To: Commanding Officer, (Station)

Subj: Contract (Number) - [____]:
(Including Demolition of [(____)])

1. This activity is preparing the documents preliminary to advertising the subject contract for bids. A portion of this contract will be concerned with the ownership of the materials in the structure(s) and the contents of the building(s) to be demolished. It is normal practice to specify that the structures, and all equipment or other material inside the structures at the time the contract is advertised for bids, become the property of the Contractor.

2. Accordingly, it is requested that this activity be advised of the existence of any material or equipment within the limits of the contract which is to remain the property of the Government. A negative reply is requested. If there is any material or equipment in this category, it is requested that action be initiated to remove it from the limits of the contract. If prompt removal is impractical, it will be necessary for the station to make a complete inventory of, and tag or mark, each item which is to remain the property of the Government. A copy of the inventory, a description of the tag or mark used, and the desired disposition of the item must be forwarded to this activity for inclusion in the specification or bidding documents.

3. In the past, this activity has experienced considerable difficulty where a building evacuated prior to demolition is then used to store other material or equipment temporarily and the items were in storage during the bid advertising period. Upon award of the contract, the Contractor claimed the material and either removed it or claimed and was awarded compensation for it. Therefore, it is requested that the structure(s) to be demolished which are included in this contract not be used for temporary storage during the bid advertising period.

4. It is requested that the reply to this letter be sent to this activity not later than [60] [_____] days after the date of this letter. Failure to do so may result in unnecessary cost to the Government in claims.

a. Insert name of contract and identify buildings(s) to be included under contract. Further revise as necessary to suit conditions.

Except where specified in other sections, all materials and equipment removed, and not reused, shall become the property of the Contractor and shall be removed from Government property. Title to materials resulting from demolition, and materials and equipment to be removed, is vested in the Contractor upon approval by the Contracting Officer of the Contractor's demolition and removal procedures, and authorization by the Contracting Officer to begin demolition. The Government will not be responsible for the condition or loss of, or damage to, such property after contract award. Materials and equipment shall not be viewed by prospective purchasers or sold on the site.

3.3.2 Reuse of Materials and Equipment

NOTE: Delete if inapplicable, or edit to suit individual requirements. Items to be salvaged shall be described in adequate detail to establish the limits of the items involved. Requirements for preparation and disposition will be as required to meet job conditions.

Remove and store materials and equipment [listed [_____] [indicated [_____] to be reused or relocated to prevent damage, and reinstall as the work progresses.

3.3.3 Salvaged Materials and Equipment

NOTE: Delete if inapplicable, or edit to suit individual requirements. Items to be salvaged shall be described in adequate detail to establish the limits of the items involved. Requirements for preparation and disposition will be as required to meet job conditions.

Remove materials and equipment that are [indicated [_____] [and] [specified [_____] to be removed by the Contractor and that are to remain the property of the Government, and deliver to a storage site [, as directed within [_____] kilometers miles of the work site] [, in accordance with [Section [_____] [_____]].

Contractor shall salvage items and material to the maximum extent possible.

Material salvaged for the Contractor shall be stored as approved by the Contracting Officer and shall be removed from Government property before

completion of the contract. Material salvaged for the Contractor shall not be sold on the site.

Salvaged items to remain the property of the Government shall be removed in a manner to prevent damage, and packed or crated to protect the items from damage while in storage or during shipment. Items damaged during removal or storage shall be repaired or replaced to match existing items. Containers shall be properly identified as to contents. The following items reserved as property of the Government shall be delivered to the areas designated: [_____].

The following items reserved as property of the using service shall be removed prior to commencement of work under this contract: [_____]. Historical items shall be removed in a manner to prevent damage. The following historical items shall be delivered to the Government for disposition: Corner stones, contents of corner stones, and document boxes wherever located on the site.

NOTE: For Class I ODS materials, use the first bracketed statement if the Contractor is to remove the material. Use the second bracketed statement if a Public Works Center or other Navy activity is to remove the Class I ODS materials. Edit statements for the project as necessary.

[Remove and capture all Class I ODS refrigerants in accordance with the Clean Air Act Amendment of 1990, and turn in to the Navy [as directed by the Commanding Officer.] [by shipping the refrigerant container to the Defense Logistics Agency at the following address:

Defense Depot Richmond VA (DDVA)
SW0400
Cylinder Operations
800 Jefferson Davis Highway
Richmond, VA 23297-5000]]

[The Government will remove and capture Class I ODS refrigerants.]

3.3.4 Debris Disposal in the San Diego Area

NOTE: This paragraph is for appropriate SOUTHWESTNAVFACENGCOM projects only.

Landfill coupons, that permit waste disposal at the Miramar Landfill free of charge, are available from the Contracting Officer. The coupons will be issued only upon the submission of a written request, by the prime contractor to the ROICC, which must identify the nature of the waste and the number of coupons requested. The landfill coupons issued under this contract are to be used only for the disposal of waste generated by this contract. If the prime contractor, one of its subcontractors, or one of its waste haulers is found to be misusing the landfill coupons by disposing of waste not generated under this contract, all rights under the contract to use landfill coupons shall be forfeited, from the date of misuse forward. All unused coupons will be returned to the Contracting Officer and no additional coupons will be issued for the duration of the contract. The

Contracting Officer's refusal to issue landfill coupons, because of prior misuse, is not a change to the contract and no adjustment of the contract price will be made.

3.3.5 Disposal of Ozone Depleting Substance (ODS)

Class I and Class II ODS are defined in Section, 602(a) and (b), of The Clean Air Act. Prevent discharge of Class I and Class II ODS to the atmosphere. Place recovered ODS in cylinders meeting ARI Guideline K suitable for the type ODS (filled to no more than 80 percent capacity) and provide appropriate labeling. Recovered ODS shall be [put back into the existing equipment] [turned over to the Contracting Officer] [remove from Government property and dispose of in accordance with 40 CFR 82]. Products, equipment and appliances containing ODS in a sealed, self-contained system (e.g. residential refrigerators and window air conditioners) shall be disposed of in accordance with 40 CFR 82.

3.3.5.1 Special Instructions

Each container shall have in it no more than one type of ODS. A warning/hazardous label shall be applied to the containers in accordance with Department of Transportation regulations. All cylinders including but not limited to fire extinguishers, spheres, or canisters containing an ODS shall have a tag with the following information:

- a. Activity name and unit identification code
- b. Activity point of contact and phone number
- c. Type of ODS and pounds of ODS contained
- d. Date of shipment
- e. Naval stock number (for information, call (804) 279-4525).

3.3.5.2 Fire Suppression Containers

Fire suppression system cylinders and canisters with electrical charges or initiators shall be deactivated prior to shipment. Also, safety caps shall be used to cover exposed actuation mechanisms and discharge ports on these special cylinders.

3.3.6 Transportation Guidance

Shipment of all ODS containers shall be in accordance with MIL-STD-129, DLA 4145.25 (also referenced one of the following: Army Regulation 700-68, Naval Supply Instruction 4440.128C, Marine Corps Order 10330.2C, and Air Force Regulation 67-12), 49 CFR 173.301, and DOD 4000.25-1-M.

3.3.7 Unsalvageable Material

Concrete, masonry, and other noncombustible material, except concrete permitted to remain in place, shall be disposed of in the disposal area located [____]. The fill in the disposal area shall remain below elevation [____] and after disposal is completed, the disposal area shall be uniformly graded to drain. Combustible material shall be disposed of [in the sanitary fill area located [____]] [off the site] [by burning].

3.4 CLEANUP

Debris and rubbish shall be removed from basement and similar excavations. Debris shall be removed and transported in a manner that prevents spillage on streets or adjacent areas. Local regulations regarding hauling and disposal shall apply.

3.4.1 Debris and Rubbish

NOTE: Verify that requirements for debris control
are covered elsewhere in this section or in another
applicable specification section including Section
01575N TEMPORARY ENVIRONMENTAL CONTROLS.

Debris and rubbish shall be removed from basement and similar excavations. Debris shall be removed and transported in a manner that prevents spillage on streets or adjacent areas. Local regulations regarding hauling and disposal shall apply.

-- End of Section --