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NAVFAC IGS-02220 (MARCH 2003)  
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Supercedes IGS-02220 (05/02)  
Preparing Activity: LANTNAVFACENGCOM Based on UFGS-02220N

ITALIAN GUIDE SPECIFICATIONS

Use for ITALIAN projects only

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SECTION 02220

SITE DEMOLITION  
03/03

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NOTE: This guide specification is issued by the Atlantic Division, Naval Facilities Engineering Command for regional use in Italy.

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

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

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: Indicate location of Class I ODS materials on the contract drawings.

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PART 1 GENERAL

1.1 REFERENCES

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

U.S. DEPARTMENT OF DEFENSE (DOD)

ITALIAN LAWS AND NORMS (D.M.)(LAW)(CIRC.)

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**NOTE: Italian laws and normatives are the legislative regulations and decrees issued by the Italian government in the form of laws, norms, decrees, circulars, and letters. These Laws and Decrees concur together with Norms and Standards in forming the governing directives for construction.**

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- D.P.R. 164 (7 January 1956 n. 78, suppl. ord.) Norms for the prevention of work related accidents
- D.L. n. 25 (02/02/02) Enforcement of 98/24/CE directions for works health and safety protection against chemical agents hazards during works
- Law 549 (28 December 1993) Measures to protect stratospheric ozone and environment (G.U. 30 Dec. 1993, n. 305)
- D.L. 626 (19 September 1994) Realization of CEE requirements for improving safety and health of workers on work sites
- D.L. 114 (17 March 1995) Accomplishment of EEC directive 87/217/CEE concerning prevention and reduction of environmental pollution caused by asbestos (G.U. 20 April 1995, n. 92)
- D.M. 26 March 1996 Accomplishment of D.Lgs 56, 10 Feb. 1996, concerning stratospheric ozone depleting substances (G.U. n. 82, 6 April 1996)
- D.L. 493 (14 August 1996) Enforcement of 92/88/CE direction for minimum requirements on safety and/or health protection warning signs on working place
- D.L. 494 (14 August 1996) Implementation of the instruction 92/57/CEE concerning the minimum safety and health requirements to be accomplished in temporary or mobile work sites

Regulation (CE) 2037

(29 June 2000) Regulation (CE) n.  
2037/2000 of European Parliament and  
Council of 29 June 2000, about ozone  
depleting substances

D.M. 3 October 2001

Collection, recycling, regeneration and  
distribution of halons (G.U. n. 249 - 25  
Oct. 2001)

## 1.2 GENERAL REQUIREMENTS

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NOTE: Make a determination as to whether any material of a hazardous nature 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 01575, "Temporary Environmental Controls" and Section 13281, "Engineering Control of Asbestos Containing Material." 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 13281, "Engineering Control of Asbestos Containing Materials."

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Do not begin demolition until authorization is received from the Contracting Officer. Remove rubbish and debris from the station daily; do not allow accumulations [inside or outside the building[s]] [on airfield pavements]. Store materials that cannot be removed daily in areas specified by the Contracting Officer. [Demolish and remove materials containing asbestos [,lead] [,PCBs] [and] [Mercury] in accordance with Section 13281, "Engineering Control of Asbestos Containing Materials" [; Section 13282, "Lead In Construction" [; Section 13283, "Removal/Control and Disposal of Paint With Lead" [; Section 13286, "Handling of Lighting Ballasts and Lamps Containing PCB's and Mercury"], and Section 01575, "Temporary Environmental Controls."]

### 1.3 DEFINITIONS

#### 1.3.1 ASL

Local Sanitary Agency (ASL) is the local Italian agency responsible for oversight of environmental and public health regulations in the area where work site is located.

#### 1.3.1 Ozone Depleting Substance (ODS)

ODS are defined in D.M. 3 October 2001, Law 549, Schedule A (Group I through Group IV), and Regulation (CE) 2037 in Attachment I, as any chemical with ozone depleting potential of 0.2 or greater.

### 1.4 SUBMITTALS

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NOTE: Where a "G" in submittal tags follows a submittal item, it indicates Government approval for that item. Add "G" in submittal tags following any added or existing submittal items deemed sufficiently critical, complex, or aesthetically significant to merit approval by the Government. Submittal items not designated with a "G" will be approved by the QC organization.

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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.

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NOTE: Delete requirements if inapplicable.

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NOTE: 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.

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Submit the following in accordance with Section 01330, "Submittal Procedures."

SD-07 Certificates

Demolition plan; G

Notifications; G

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

1.5 REGULATORY AND SAFETY REQUIREMENTS

Comply with Italian regional and local hauling and disposal regulations. In addition to the requirements of the "Contract Clauses," safety requirements shall conform with D.P.R. 164, D.L. 626 and D.L. 494.

1.5.1 Notifications

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NOTE: Starting from 23 March 1997, the obligation to prepare safety plans (in which demolition activities must be reported) is extended to all temporary or mobile yards (as per D.L. 494, Art. 12).

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Furnish timely notification of [demolition] [and] [renovation] projects to the local ASL in accordance with D.L. n. 25, D.L. 114, and others as required by DOD-FGS-Italy. Notify the local air pollution control agency and the Contracting Officer in writing 10 working days prior to the commencement of work in accordance with D.L. n. 25, D.L. 114, D.L. 626, and DOD-FGS-Italy.

1.6 DUST [AND DEBRIS] CONTROL

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.]

1.7 PROTECTION

1.7.1 Traffic Control Signs

Where [pedestrian and driver] [aircraft] safety is endangered in the area of removal work, use traffic barricades with flashing lights. Install warning signs as required by D.L. 493 where needed. [Anchor barricades in a manner to prevent displacement by jet or prop blast.] Notify the Contracting Officer prior to beginning such work.

1.7.2 Existing Work

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**NOTE: Delete requirements if inapplicable.**  
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Protect existing work which is to remain in place, be reused, or remain the property of the Government. Repair items which are to remain [which are to be salvaged] and which are damaged during performance of the work to their original condition, or replace with new. 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.

[1.7.3 Weather Protection

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**NOTE: Delete requirements if inapplicable.**  
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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.

]1.7.4 Trees

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**NOTE: Delete requirements if inapplicable.**  
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Conform to Section 01575, "Temporary Environmental Controls," for protection of natural resources.

1.7.5 Facilities

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**NOTE: Delete requirements if inapplicable.**

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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.

1.8 BURNING

Burning [will] [will not] be permitted. [Where burning is permitted, adherence to local ASL regulations shall be required.]

[1.9 FOREIGN OBJECT DAMAGE (FOD)

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NOTE: Delete requirements if inapplicable.

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NOTE: 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.

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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.

][1.10 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.

][1.11 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.]

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

3.1 EXISTING FACILITIES TO BE REMOVED

3.1.1 Structures

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**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.

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Remove indicated existing structures [to grade] [to top of foundation walls] [to [\_\_\_\_\_] mm below [existing adjacent] [new finished] grade]. [Remove interior walls [, other than retaining walls,] and partitions [to [\_\_\_\_\_] mm below grade] [to top of concrete slab on ground.] [Break up basement slabs to permit drainage.]]

3.1.2 Utilities and Related Equipment

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**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.

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Remove existing utilities [, as indicated] [uncovered by work] and terminate in a manner conforming to Italian laws and norms covering the specific utility and approved by the Contracting Officer. 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

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**NOTE: Delete requirements if inapplicable.**  
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Remove [ground] [scarified] [sawcut] concrete and asphaltic concrete paving and slabs [including aggregate base] [as indicated] to a depth of [\_\_\_\_\_] mm below [existing adjacent] [new finish] grade. [Provide neat sawcuts at limits of pavement removal as indicated.]

][3.1.4 Roofing

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**NOTE: Delete requirements if inapplicable.**  
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**NOTE: 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.**  
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[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 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

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**NOTE: Delete requirements if inapplicable.**  
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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

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**NOTE: Delete requirements if inapplicable.**  
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Saw concrete along straight lines to a depth of not less than 50 mm. 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

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**NOTE: Delete requirements if inapplicable.**  
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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

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**NOTE: Delete requirements if inapplicable.**  
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**NOTE: Quantify by weight the amount and type of refrigerant to be recovered and indicate on plans.**  
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**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.**  
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[ Remove air conditioning equipment without releasing chlorofluorocarbon refrigerants to the atmosphere in accordance with the D.M. 3 October 2001 (Art. 7, para. 3) and DOD-FGS-Italy.]

[ 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 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

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

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**NOTE: Reference the applicable specification section which includes the filling requirements;**  
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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.

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Fill holes, open basements, and other hazardous openings [in accordance with Section [\_\_\_\_\_, "\_\_\_\_\_"] [as follows: [\_\_\_\_\_]] [as indicated].]

### 3.3 DISPOSITION OF MATERIAL

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

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#### 3.3.1 Title to Materials

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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.

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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

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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.

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

]3.3.3 Salvaged Materials and Equipment

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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.

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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 of the work site] [, in accordance with Section [\_\_\_\_, "\_\_\_\_"]].

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NOTE: For 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 ODS materials. Edit statements for the project as necessary.

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[Remove and capture all ODS refrigerants in accordance with D.M. 3 October 2001, Regulation (CE) 2037, and DOD-FGS-Italy, and turn in to the local authorized center for collection.]

[The Government will remove and capture ODS refrigerants.]

]3.3.5 Disposal of Ozone Depleting Substance (ODS)

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NOTE: Disposal of ODS is performed in accordance with D.M. 3 October 2001, Art. 4, by "authorized centers for collection of halon".

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Prevent discharge of ODS to the atmosphere. Recovered ODS shall be [removed from Government property and disposed of in accordance with D.M. 3 October 2001, D.M. 26 March 1996, Regulation (CE) 2037, Law 549, and DOD-FGS-Italy]. 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 D.M. 3 October

2001, D.M. 26 March 1996, Regulation (CE) 2037, Law 549, and DOD-FGS-Italy.

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 quantity of ODS contained
- d. Date of shipment
- e. DOD and 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.

3.3.5.3 Transportation Guidance

Shipment of all ODS containers shall be in accordance with D.M. 3 October 2001 (Art. 4) and performed by personnel of "authorized centers for collection of halon" as prescribed in D.M. 26 March 1996 (Art. 6), and in Law 549 (Art. 6, para. 5).

]3.4 CLEANUP

3.4.1 Debris and Rubbish

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**NOTE: Verify that requirements for debris control are covered elsewhere in this section or in another applicable specification section including Section 01575, "Temporary Environmental Controls."**  
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Remove and transport debris and rubbish in a manner that will prevent spillage on [pavements,] streets or adjacent areas. Limit to 1/4 cubic meter capacity buggies or other conveyances used on roofs and within the building to transport removed debris [to chute locations]. Clean up spillage from [pavements,] streets and adjacent areas [to prevent FOD potential]. Conform to other applicable requirements under Section [\_\_\_\_\_, "\_\_\_\_\_."]

-- End of Section --

