
USACE / NAVFAC / AFCEA / NASA UFGS-02 42 00 (April 2006)

Preparing Activity: USACE Replacing without change
UFGS-01572 (February 2003)

UNIFIED FACILITIES GUIDE SPECIFICATIONS

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SECTION 02 42 00

CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT 04/06

NOTE: This guide specification covers the requirements for the management of non-hazardous construction and demolition waste materials.

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.

NOTE: TO DOWNLOAD UFGS GRAPHICS

Go to <http://www.wbdg.org/ccb/NAVGRAPH/graphdoc.pdf>.

PART 1 GENERAL

NOTE: Military installations are required to direct at least 40% of their non-hazardous solid wastes (including waste from construction and demolition operations) from the waste stream by the end of FY05. This guide specification should be used, when appropriate, to reduce the amount of construction and demolition waste requiring landfill disposal or incineration and to promote more efficient use of construction materials during construction.

The requirements of this specification must be

coordinated with the facility user to assure compatibility with the users waste management programs and to gain access to recycling centers and storage areas. Also, this specification must be coordinated with Section 01 57 20.00 10 ENVIRONMENTAL PROTECTION, Section 02 41 00 DEMOLITION, Section 01 57 19.00 20 TEMPORARY ENVIRONMENTAL CONTROLS, Section 02 41 00 DEMOLITION and other sections of the project specification requiring disposal of construction and demolition waste.

Disposal of hazardous or toxic materials and wastes is specified in Section 02 81 00 TRANSPORTATION AND DISPOSAL OF HAZARDOUS MATERIALS and Section 01 57 19.00 20 TEMPORARY ENVIRONMENTAL CONTROLS.

Consideration should be given to using a properly edited version of this guide specification in every project.

1.1 GOVERNMENT POLICY

Government policy is to apply sound environmental principles in the design, construction and use of facilities. As part of the implementation of that policy the Contractor shall: (1) practice efficient waste management when sizing, cutting, and installing products and materials and (2) use all reasonable means to divert construction and demolition waste from landfills and incinerators and to facilitate their recycling or reuse.

1.2 MANAGEMENT

The Contractor shall take a pro-active, responsible role in the management of construction and demolition waste and require all subContractors, vendors, and suppliers to participate in the effort. Construction and demolition waste includes products of demolition or removal, excess or unusable construction materials, packaging materials for construction products, and other materials generated during the construction process but not incorporated into the work. In the management of waste consideration shall be given to the availability of viable markets, the condition of the material, the ability to provide the material in suitable condition and in a quantity acceptable to available markets, and time constraints imposed by internal project completion mandates. The Contractor shall be responsible for implementation of any special programs involving rebates or similar incentives related to recycling of waste. Revenues or other savings obtained for salvage, or recycling shall accrue to the Contractor. Firms and facilities used for recycling, reuse, and disposal shall be appropriately permitted for the intended use to the extent required by federal, state, and local regulations.

1.3 PLAN

NOTE: The requirements for the Contractor's waste management plan must be coordinated with the waste management plan for the installation. Revise this paragraph as necessary to meet the installation's requirements.

A waste management plan shall be submitted within 15 days after [contract award] [notice to proceed] and prior to initiating any site preparation work. The plan shall include the following:

- a. Name of individuals on the Contractor's staff responsible for waste prevention and management.
- b. Actions that will be taken to reduce solid waste generation.
- c. Description of the specific approaches to be used in recycling/reuse of the various materials generated, including the areas and equipment to be used for processing, sorting, and temporary storage of wastes.
- d. Characterization, including estimated types and quantities, of the waste to be generated.
- e. Name of landfill and/or incinerator to be used and the estimated costs for use, assuming that there would be no salvage or recycling on the project.
- f. Identification of local and regional reuse programs, including non-profit organizations such as schools, local housing agencies, and organizations that accept used materials such as materials exchange networks and Habitat for Humanity.
- g. List of specific waste materials that will be salvaged for resale, salvaged and reused, or recycled. Recycling facilities that will be used shall be identified.
- h. Identification of materials that cannot be recycled/reused with an explanation or justification.
- i. Anticipated net cost savings determined by subtracting Contractor program management costs and the cost of disposal from the revenue generated by sale of the materials and the incineration and/or landfill cost avoidance.

1.4 RECORDS

Records shall be maintained to document the quantity of waste generated; the quantity of waste diverted through sale, reuse, or recycling; and the quantity of waste disposed by landfill or incineration. The records shall be made available to the Contracting Officer during construction, and a copy of the records shall be delivered to the Contracting Officer upon completion of the construction.

1.5 COLLECTION

The necessary containers, bins and storage areas to facilitate effective waste management shall be provided and shall be clearly and appropriately identified. Recyclable materials shall be handled to prevent contamination of materials from incompatible products and materials and separated by one of the following methods:

1.5.1 Source Separated Method.

Waste products and materials that are recyclable shall be separated from trash and sorted into appropriately marked separate containers and then transported to the respective recycling facility for further processing.

1.5.2 Co-Mingled Method.

Waste products and recyclable materials shall be placed into a single container and then transported to a recycling facility where the recyclable materials are sorted and processed.

1.5.3 Other Methods.

Other methods proposed by the Contractor may be used when approved by the Contracting Officer.

1.6 DISPOSAL

Except as otherwise specified in other sections of the specifications, disposal shall be in accordance with the following:

1.6.1 Reuse.

First consideration shall be given to salvage for reuse since little or no re-processing is necessary for this method, and less pollution is created when items are reused in their original form. Sale or donation of waste suitable for reuse shall be considered. Salvaged materials, other than those specified in other sections to be salvaged and reinstalled, shall not be used in this project.

1.6.2 Recycle.

Waste materials not suitable for reuse, but having value as being recyclable, shall be made available for recycling whenever economically feasible.

1.6.3 Waste.

NOTE: Disposal by landfill or incineration on the
installation should not be provided as a "no Cost"
item. If necessary to use such facilities the
Contractor should be charged the prevailing
commercial rate.

Materials with no practical use or economic benefit shall be disposed at a landfill or incinerator.

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