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USACE / NAVFAC / AFCEC / NASA UFGS-01 74 19 (January 2007)  
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Preparing Activity: USACE Superseding  
UFGS-01 74 19 (October 2006)

UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated April 2014

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### SECTION 01 74 19

#### CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT 01/07

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

Adhere to UFC 1-300-02 Unified Facilities Guide Specifications (UFGS) Format Standard when editing this guide specification or preparing new project specification sections. Edit this guide specification for project specific requirements by adding, deleting, or revising text. For bracketed items, choose applicable items(s) or insert appropriate information.

Remove information and requirements not required in respective project, whether or not brackets are present.

Comments, suggestions and recommended changes for this guide specification are welcome and should be submitted as a Criteria Change Request (CCR).

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#### PART 1 GENERAL

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NOTE: Military installations are required to direct at least 40 percent of their non-hazardous solid wastes (including waste from construction and demolition operations) from the waste stream. This guide specification should be used 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][ AND ][DECONSTRUCTION], Section  
01 57 19.00 20 TEMPORARY ENVIRONMENTAL CONTROLS, 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.

Every project shall use a properly edited version of  
this guide specification..

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## 1.1 REFERENCES

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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.

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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.

U.S. GREEN BUILDING COUNCIL (USGBC)

LEED GBDC	(2009) LEED Reference Guide for Green Building Design and Construction
LEED NC	(2009) Leadership in Energy and Environmental Design(tm) New Construction Rating System

## 1.2 GOVERNMENT POLICY

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NOTE: Diverting construction waste from the  
landfill contributes to the following LEED credit:  
MR2. Diverting 95 to 100 percent of waste may  
contribute to the following LEED credit: ID1. Army  
projects shall include the bracketed sentence if  
pursuing the credit.

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Government policy is to apply sound environmental principles in the design,  
construction and use of facilities. As part of the implementation of that  
policy: (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. A minimum of [50] [75] [\_\_\_\_\_]   
percent by weight of total project solid waste shall be diverted from the

landfill.

### 1.3 MANAGEMENT

Develop and implement a waste management program. 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. The Environmental Manager, as specified in Section 01 35 40.00 20 Environmental Management, shall be responsible for instructing workers and overseeing and documenting results of the Waste Management Plan for the project. 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 is 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 accrue to the Contractor. Appropriately permit firms and facilities used for recycling, reuse, and disposal for the intended use to the extent required by federal, state, and local regulations. Also, provide on-site instruction of appropriate separation, handling, recycling, salvage, reuse, and return methods to be used by all parties at the appropriate stages of the project.

### 1.4 SUBMITTALS

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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.

The Guide Specification technical editors have designated those items that require Government approval, due to their complexity or criticality, with a "G." Generally, other submittal items can be reviewed by the Contractor's Quality Control System. Only add a "G" to an item, 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.

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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-01 Preconstruction Submittals

Waste Management Plan[; G][; G, [\_\_\_\_]]; (LEED NC)

SD-11 Closeout Submittals

Records; (LEED NC)

1.5 MEETINGS

Conduct Construction Waste Management meetings. After award of the  
Contract and prior to commencement of work, schedule and conduct a meeting  
with the Contracting Officer to discuss the proposed Waste Management Plan  
and to develop a mutual understanding relative to the details of waste  
management. The requirements for this meeting may be fulfilled during the  
coordination and mutual understanding meeting outlined in Section  
01 45 00.00 2001 45 00.00 10 QUALITY CONTROL. At a minimum, environmental  
and waste management goals and issues shall be discussed at the following  
additional meetings:

- a. Pre-bid meeting.
- b. [Preconstruction] [Pre-demolition] meeting.
- c. Regular [site] [QC] meetings.
- d. Work safety meetings.

1.6 WASTE MANAGEMENT PLAN

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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. Verify that items are able to be  
disposed of as specified in the technical sections.  
The contractor may include specified items in item  
(i) below if explanation or justification exists, to  
be approved by the Contracting Officer.

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A waste management plan shall be submitted within [15] [\_\_\_\_] days after  
[contract award] [notice to proceed] and not less than 10 days before the  
[preconstruction] [pre-demolition] meeting. The plan shall demonstrate how  
the project waste diversion goal shall be met and 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, including coordination with subcontractors to ensure awareness and participation.
- c. Description of the regular meetings to be held to address waste management.
- d. Description of the specific approaches to be used in recycling/reuse of the various materials generated, including the areas on site and equipment to be used for processing, sorting, and temporary storage of wastes.
- e. Characterization, including estimated types and quantities, of the waste to be generated.
- f. 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.
- g. 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. Include the name, location, and phone number for each reuse facility to be used, and provide a copy of the permit or license for each facility.
- h. List of specific waste materials that will be salvaged for resale, salvaged and reused on the current project, salvaged and stored for reuse on a future project, or recycled. Recycling facilities that will be used shall be identified by name, location, and phone number, including a copy of the permit or license for each facility.
- i. Identification of materials that cannot be recycled/reused with an explanation or justification, to be approved by the Contracting Officer.
- j. Description of the means by which any waste materials identified in item (h) above will be protected from contamination.
- k. Description of the means of transportation of the recyclable materials (whether materials will be site-separated and self-hauled to designated centers, or whether mixed materials will be collected by a waste hauler and removed from the site).
- l. 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.

Revise and resubmit Plan as required by the Contracting Officer. Approval of Contractor's Plan will not relieve the Contractor of responsibility for compliance with applicable environmental regulations or meeting project cumulative waste diversion requirement. Distribute copies of the Waste Management Plan to each subcontractor, the Quality Control Manager, and the Contracting Officer.

## 1.7 RECORDS

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NOTE: Army projects shall use LEED Letter Template  
if pursuing this credit. Include bracketed sentence  
for Army projects.  
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NOTE: Include second paragraph regarding timber  
harvest and demolition by others if applicable and  
if pursuing LEED credit MR2.  
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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. [Records shall be kept in accordance with the LEED GBDC and using the LEED NC Letter Template.] Quantities may be measured by weight or by volume, but must be consistent throughout. List each type of waste separately noting the disposal or diversion date. Identify the landfill, recycling center, waste processor, or other organization used to process or receive the solid waste. Provide explanations for any waste not recycled or reused. With each application for payment, submit updated documentation for solid waste disposal and diversion, and submit manifests, weight tickets, receipts, and invoices specifically identifying the project and waste material. 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] [included in the LEED Documentation Notebook].

[Demolition accomplished by other parties on this project site count toward the project's total waste diversion cumulative score for LEED NC. Information on the quantity and disposition of these materials will be provided by the Contracting Officer. Include this data in records, annotated to indicate that it was accomplished by another party.]

## 1.8 REPORTS

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NOTE: This paragraph applies only to Army and Air  
Force projects. For Army projects, reports go to  
SWARS coordinator. For Air Force projects,  
coordinate with Base and identify the appropriate  
person to collect this data.  
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Provide quarterly reports and a final report to [insert name], at [insert fax number, email address or mailing address]. Quarterly and final reports shall include project name, information for waste generated this quarter, and cumulative totals for the project. Each report shall include supporting documentation to include manifests, weight tickets, receipts, and invoices specifically identifying the project and waste material. Include timber harvest and demolition information, if any.

## 1.9 COLLECTION

Separate, store, protect, and handle at the site identified recyclable and salvageable waste products in a manner that maximizes recyclability and

salvagability of identified materials. Provide the necessary containers, bins and storage areas to facilitate effective waste management and clearly and appropriately identify them. Provide materials for barriers and enclosures around recyclable material storage areas which are nonhazardous and recyclable or reusable. Locate out of the way of construction traffic. Provide adequate space for pick-up and delivery and convenience to subcontractors. Recycling and waste bin areas are to be kept neat and clean, and recyclable materials shall be handled to prevent contamination of materials from incompatible products and materials. Clean contaminated materials prior to placing in collection containers. Use cleaning materials that are nonhazardous and biodegradable. Handle hazardous waste and hazardous materials in accordance with applicable regulations and coordinate with [Section 01 35 40.00 20 ENVIRONMENTAL MANAGEMENT] [Section 01 57 20.00 10 ENVIRONMENTAL PROTECTION]. Separate materials by one of the following methods:

#### 1.9.1 Source Separated Method.

Waste products and materials that are recyclable shall be separated from trash and sorted as described below into appropriately marked separate containers and then transported to the respective recycling facility for further processing. Deliver materials in accordance with recycling or reuse facility requirements (e.g., free of dirt, adhesives, solvents, petroleum contamination, and other substances deleterious to the recycling process). Separate materials into the following category types as appropriate to the project waste and to the available recycling and reuse programs in the project area:

- a. Land clearing debris.
- b. Asphalt.
- c. Concrete and masonry.
- d. Metal (e.g. banding, stud trim, ductwork, piping, rebar, roofing, other trim, steel, iron, galvanized, stainless steel, aluminum, copper, zinc, lead brass, bronze).
  - (1) Ferrous.
  - (2) Non-ferrous.
- e. Wood (nails and staples allowed).
- f. Debris.
- g. Glass (colored glass allowed).
- h. Paper.
  - (1) Bond.
  - (2) Newsprint.
  - (3) Cardboard and paper packaging materials.
- i. Plastic.



Type	
1	Polyethylene Terephthalate (PET, PETE)
2	High Density Polyethylene (HDPE)
3	Vinyl (Polyvinyl Chloride or PVC)
4	Low Density Polyethylene (LDPE)
5	Polypropylene (PP)
6	Polystyrene (PS)
7.	Other. Use of this code indicates that the package in question is made with a resin other than the six listed above, or is made of more than one resin listed above, and used in a multi-layer combination.

j. Gypsum.

k. Non-hazardous paint and paint cans.

l. Carpet.

m. Ceiling tiles.

n. Insulation.

o. Beverage containers.

p. [\_\_\_\_].

#### 1.9.2 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.

#### 1.9.3 Other Methods.

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

#### 1.10 DISPOSAL

Control accumulation of waste materials and trash. Recycle or dispose of collected materials off-site at intervals approved by the Contracting Officer and in compliance with waste management procedures. Except as otherwise specified in other sections of the specifications, disposal shall be in accordance with the following:

##### 1.10.1 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. [Coordinate reuse with the

Contracting Officer. ] [Reuse materials as indicated on the drawings. ]  
Sale or donation of waste suitable for reuse shall be considered.

#### 1.10.2 Recycle.

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NOTE: Crushing lamps on site creates a hazardous  
waste stream, which has additional handling and  
disposal requirements.  
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Waste materials not suitable for reuse, but having value as being  
recyclable, shall be made available for recycling. All fluorescent lamps,  
HID lamps, and mercury-containing thermostats removed from the site shall  
be recycled. Arrange for timely pickups from the site or deliveries to  
recycling facilities in order to prevent contamination of recyclable  
materials.

#### [1.10.3 Compost

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NOTE: If a compost pile shall remain on site after  
construction is complete, and if there is a use for  
the finished compost, employ composting practices  
throughout the project.  
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Consider composting on site if a reasonable amount of compostable material  
will be available. Compostable materials include plant material, sawdust,  
and certain food scraps.

#### ]1.10.4 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.  
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Materials with no practical use or economic benefit shall be disposed at a  
landfill or incinerator.

#### 1.10.5 Return

Set aside and protect misdelivered and substandard products and materials  
and return to supplier for credit.

### PART 2 PRODUCTS

Not used.

### PART 3 EXECUTION

Not used. -- End of Section --