

**Guide for Developing
Integrated Solid Waste Management Plans
at Army Installations**

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GUIDE FOR DEVELOPING INTEGRATED SOLID WASTE MANAGEMENT PLANS AT ARMY INSTALLATIONS

1. GENERAL.

a. Basis for Guide. This technical guide (TG) was developed to assist Army installations in meeting the requirements defined in Army Regulation (AR) 420-1 for developing a written Integrated Solid Waste Management Plan (ISWMP). This TG reflects current U.S. Environmental Protection Agency (EPA) and Army regulations, guidelines, and philosophies and covers the relevant issues pertaining to solid waste management. This guide may be tailored to meet the needs of specific installations.

b. Guide Format. Beginning with Section 2, this TG is structured to mirror the organization of an ISWMP. An outline format is provided to facilitate converting the TG to an actual plan. Each section of the TG provides suggested information for inclusion in the ISWMP. Also included are text boxes containing additional useful information. It may be appropriate to include similar explanatory text in the ISWMP to strengthen the plan as an educational and promotional tool.

2. APPLICABLE REGULATIONS AND REFERENCES. Applicable laws, regulations, and published guidance should be used to develop the ISWMP and be referenced within the plan. A comprehensive list of state, Federal, and Army references on the subject of solid waste management is provided below. The list is not exhaustive, so it may be appropriate to include additional references. New regulations or guidance documents that have been published since the date of this TG's publication should also be included in the plan. Although Federal legislation has established national solid waste policy, individual states have primacy the authority to implement policy, the right to issue more restrictive regulations, and the power of enforcement. State and local requirements are often the most stringent and dominating factors driving an installation's solid waste management program. The generic state regulations are therefore prioritized below, and local rules should be added when applicable.

a. State Solid Waste Management Act. (Title, chapter, date of enactment, summary of requirements.) Summarize any requirements that extend beyond Federal, Department of Defense (DOD) and Army requirements.

b. State Solid Waste Management Regulations. (Governing agency, regulation title, latest date of amendment, summary of requirements.) Summarize any regulations that extend beyond Federal, DOD, and Army regulations.

d. Mission. State the current and future mission(s) of the installation.

e. Population. State the current population of the military and civilian work force and the number of onpost residents. Also state the projected (10- and 20-year estimates) military and civilian work force and number of residents, if available.

f. Master Plan. Report any planned major constructions, demolitions, or alterations in land use that could affect solid waste generation.

g. Planning Factors. Briefly identify the major factors affecting solid waste management planning and decision-making at the installation. These should be discussed in greater detail in Section 16 but may be summarized here to provide an overall picture of the installation's solid waste situation and constraints. Such factors may be regulatory, economic, environmental, political, operational, or logistical, or may relate to the size, mission, location, or closure/realignment status of the installation.

6. RESPONSIBILITIES. Specify the responsibilities, both individual and organizational, for all aspects of solid waste management. The following paragraphs contain examples of the roles and responsibilities within the solid waste management program. Installations must tailor these to fit their particular needs. For example, at some installations the recycling program is managed by the Directorate of Public Works (DPW) and at others by the Directorate of Morale, Welfare and Recreation (MWR).

a. Garrison Commander.

(1) Establishes and/or maintains a functional organizational structure to plan, execute, and monitor the solid waste program.

(2) Provides command emphasis on solid waste reduction, materials reuse, recycling, GP, and composting.

(3) Formally establishes an installation recycling program or QRP (see text box) and designates the installation activity responsible for oversight of the program.

(4) Chairs the Environmental Quality Control Committee (EQCC) or other installation forum that addresses solid waste management and recycling issues.

QRP OR NON-QRP?

A QRP is a recycling program that accounts for and distributes recycling proceeds for environmental, safety, and MWR programs. An installation may operate a non-QRP recycling program if a contractor collects separated recyclables as a service to the installation. In this case, recycling proceeds are most likely not returned to the installation unless the contract specifies otherwise. Other non-QRP recycling programs include the Defense Logistics Agency Disposition Services recovery of scrap materials, such as furniture.

textiles, and furniture. List the major generators of commercial and institutional waste, and identify the recyclable materials. Estimate the amounts of refuse and recyclable materials generated.

RESIDENTIAL, COMMERCIAL, AND INSTITUTIONAL WASTE

In some cases, this type of waste is removed by a solid waste contractor and disposed of in an offpost landfill. Waste hauler records or landfill logs should provide estimates, although these may not be accurate. The best way to characterize and measure these wastes is to perform a generator survey. Generators may include administrative offices, commissaries, food service operations, medical facilities (not including regulated medical wastes), warehouses, post exchanges, schools, and laboratories.

(3) Industrial (Nonhazardous) Waste. Industrial wastes may include materials discarded from industrial operations and manufacturing processes, such as scrap metals, nonhazardous solvents, greases, and oils. List the types and quantities, locations generated, and special handling/disposal requirements.

INDUSTRIAL WASTE

The best way to characterize and measure these wastes is to perform a generator survey. Examples of facilities that produce industrial waste are: motor pools, paint shops, service stations, maintenance shops, craft shops, and auto craft shops.

(4) C&D Waste. Identify ongoing and planned C&D projects and the parties responsible for the management of C&D debris. Include existing C&D waste quantity data, and evaluate future provisions (through contracts) for obtaining C&D waste management data.

C&D WASTE

Army policy calls for minimizing the amount of disposal of solid wastes in landfills or incinerators and promoting the use of environmentally preferable construction materials, including those with recovered content. Typical wastes include lumber, timber, reinforcing steel, pipes, wires, concrete, brick, plaster, metal, wallboard, roofing, insulation materials, and asphalt. Since most major construction/demolition projects are performed by contractors, the best way to obtain information on the associated waste streams is by reviewing the contracts or contacting the COR. Every effort should be made to salvage materials for sale/reuse or recycle them in lieu of landfilling or incineration.

(5) Yard Waste. Estimate the quantity of yard wastes generated by groundskeeping activities and residential yard maintenance.

YARD WASTE

If yard wastes are composted in a municipal compost facility, the data may be available at that facility or may be maintained by the DPW groundskeeping activity. If yard wastes are not segregated from the waste stream, it is difficult to estimate generation rates.

(6) Other Special Wastes. Indicate the types and quantities of nonhazardous, special wastes generated (i.e., wastes that are not disposed as refuse and are not handled through the recycling program).

SPECIAL WASTES

Commercial and industrial activities on the installation can result in the generation of certain nonhazardous solid wastes that cannot be disposed of as general refuse. Information on management of these wastes can be obtained from either the solid waste program manager or the hazardous waste program manager. Some examples of special wastes are waste oil, absorbents with petroleum products, tires, ash, photographic chemicals, scrap metal, adhesives, non-RCRA cleansers, latex paint, water treatment/wastewater treatment sludges, dead animals, pallets, batteries, antifreeze, asbestos, kitchen grease, pesticide containers, pollution control residuals, and septic tank wastes.

8. SOURCE REDUCTION. Document all of the source reduction practices at the installation and the strategies for further waste reduction. Also describe any occurring or planned procurement efforts or programs. Source reduction may include

WHY SOURCE REDUCTION?

In the Pollution Prevention Act of 1990, the EPA designated source reduction as the highest priority for effectively managing the solid waste stream. The benefits derived from reducing solid waste include natural resource conservation, reduction in treatment/disposal costs, and removal of risks and liabilities associated with disposal. Source reduction differs from recycling in that the former focuses on reducing the waste stream at the source, to include green procurement policies and the ways in which products are used (and reused). Source reduction, according to the EPA definition, also includes the reuse of materials, with little or no "processing" involved. Implementing source reduction measures play a vital role in meeting waste reduction goals.

procurement programs, innovative buying policies, P2, material reuse, donation, process alterations, and management practices that minimize waste generation.

a. Green Procurement.

(1) Green Procurement Overview. Green Procurement is the purchase of environmentally beneficial products and services in accordance with one or more of the established Federal procurement preference programs. Federal Agencies are required to establish a GP Program (GPP) to meet the requirements of the EPA's "Buy Recycled" Program and the U.S. Department of Agriculture's (USDA's) "BioPreferred" Program. The GPP includes the following categories: recovered materials; biobased; energy- and water-efficient; alternative fuels and fuel efficiency; environmentally preferable; non-ozone depleting substances; priority chemicals; Electronic Product Environmental Assessment Tool-registered electronic products; and sustainable buildings.

THE ROLE OF GREEN PROCUREMENT IN INTEGRATED SOLID WASTE MANAGEMENT

Green procurement has many environmental benefits including creating markets for recycled and biobased materials, conserving resources, saving energy, saving landfill space, and reducing pollution. The types and amounts of wastes generated on an installation are a direct result of the products purchased and used. Choosing products such as those with reduced packaging or lower toxicity favorably impacts the rates of waste generation, the disposal methods, and the cost of disposal. Although many GP practices do not intrinsically reduce the amounts of wastes generated, GP is considered a key component of integrated solid waste management. Buying products with recycled content completes the circle by stimulating the market for recycled materials, conserving natural resources, and saving energy otherwise used to make products from virgin materials.

(2) Green Procurement Mandates. The DOD issued its original GP policy in 2004 and issued the updated strategy document in December 2008. The GP policy reaffirmed a goal of 100 percent compliance with Federal laws and EOs requiring the procurement of green products and services and the strategy document outlines steps for meeting those requirements and contains metrics for measuring progress. In November 2006, the U.S. Army published its GP policy formalizing the Army's commitment to GP compliance. The revised *Army Installation Green Procurement Program Implementation Guide*, published in December 2010, provides detailed instructions for implementing a GPP at an Army installation. Further guidance can be found in the Federal Acquisition Regulation, Part 23 (48 CFR); EO 13423; and in the Farm Security and Rural Investment Act of 2002 (FSRIA). The Comprehensive

d. Segregation, Storage, and Collection Procedures. Indicate how recyclable materials are stored and collected. Some or all of this information may be documented in the solid waste storage and collection section of the plan.

- (1) List the turn-in or preparation requirements for all recyclables.
- (2) Specify container and labeling requirements for all recyclables collected.
- (3) If recyclables are commingled with other solid wastes, indicate how and where the segregation/processing will occur.
- (4) If firing-range scrap is collected and processed through the QRP, include the following: a list of personnel authorized to certify firing-range scrap from range clearance as safe; procedures and responsibilities for identification, collection, and processing of firing-range scrap; and procedures for turning in other AEDA scrap to the DLA Disposition Services.

e. Contracted Operations. Identify whether the collection, processing, or sale of recyclables is performed by a contractor. Indicate how revenue is returned to the installation (i.e., direct payment, contract discounts, or rebates).

f. Facilities, Equipment, and Personnel. Describe the facilities, equipment, and personnel directly involved in operating the QRP. Include plans for new or expanded facilities, new equipment, or personnel changes.

g. Regulations, Policies, and Procedures. List the installation regulations, policies, and procedures established for the recycling program. These may be incorporated into an installation regulation, policy, or SOP. It may be appropriate to include some or all of these documents as appendices in the ISWMP.

h. Publicity and Promotion. Identify the mechanisms for promoting the recycling program to installation elements, tenant organizations, and onpost residents. Details on promoting the QRP may be documented as a separate section (see Section 14).

i. Market Research. Identify who is responsible for investigating local and national markets for recycled materials. Briefly describe the procedures for researching markets and locating vendors.

j. Funding and Financial Accountability. Describe funding mechanisms and procedures for operating the recycling program. Briefly describe the accounting procedures associated with the sale of recyclables and the distribution of proceeds.

k. Calculation of Diversion Rate. Outline the method for calculating the solid waste diversion rate (see text box).

DIVERSION RATE CALCULATION

The diversion rate is the rate at which nonhazardous solid waste is diverted from entering a disposal facility. Disposal facilities include landfills (both solid waste and inert) and incinerators. Composting, mulching, recycling, reuse, and donation are generally-accepted waste diversion methods. The diversion rate is calculated as follows:

$$(R/(R+L))*100 = \text{diversion rate (percentage)}$$

R = amount (in tons) of nonhazardous solid waste (including construction and demolition debris) that is composted, mulched, recycled, reused, donated, or otherwise diverted from a disposal facility.

L = amount (in tons) of solid waste (including construction and demolition debris) transferred to a disposal facility.

l. Relationship with Local Recycling Programs. Indicate whether recycling programs have been established in the local community and to what extent the installation is participating or plans to participate. Section 705 of EO 13101 states that government agencies shall consider cooperative ventures with state and local governments to promote recycling and waste reduction in the community. Army policy prohibits using onpost facilities for acceptance of offpost materials or waste.

m. Recordkeeping. Describe the documentation procedures associated with management of the QRP, to include financial management.

10. COMPOSTING. The ISWMP should describe the current composting activities and should address any plans for new or expanded composting.

a. Yard Waste Composting.

(1) State whether any “backyard” composting is performed by residents. Estimate the quantity of yard waste diverted from disposal and the number of participants.

(2) If a centralized composting program exists, indicate whether it occurs on or off the installation. State the quantity of yard wastes collected, the frequency of collection, the size of the compost area, the management procedures used, the equipment used to aerate the piles, and the end uses for the material.

(2) Document the current or planned training events or programs associated with solid waste management.

(3) Describe the aspects of solid waste management that are addressed in new employee and new resident orientation programs.

(4) Provide training sources that may be beneficial to installation solid waste management personnel. Some examples follow.

(a) Solid Waste and Recycling. Training the recycling manager keeps him/her informed of new technologies and opportunities to recycle or otherwise reduce wastes. A recommended training course is the Air Force Institute of Technology Course, WENV 160 Qualified Recycling Program Management, which is approved by the Interservice Education Review Board for all DOD components. Recommended conferences for obtaining current information are the Environment, Energy, and Sustainability Symposium and Exposition, the National Recycling Coalition's annual conference, and the Solid Waste Association of North America's annual conference (WasteCon).

(b) Construction and Demolition Waste Management Training. A C&D waste management course is sponsored by Fort Campbell, Kentucky, through a United States Army Corps of Engineers contract. The course provides information on how to comply with C&D debris diversion and reduction requirements in accordance with Army policy. Further details about the training may be requested by contacting the Fort Campbell DPW Environmental Division's Solid Waste and Recycling Program at <http://www.campbell.army.mil/campbell/directorates/DPW/envdiv/Pages/default.aspx>.

(c) New Employee Training. Training programs for new employees may include instruction on source reduction, recycling, GP, and overall environmental awareness. The U.S. Army Logistics University offers basic environmental training courses at www.almc.army.mil.

(d) Specific Job Training. Specific training and/or certification may be required for certain job descriptions, such as asbestos work, solid waste handling, operation of machinery (such as balers or crushers), and transportation of wastes.

15. RECORDKEEPING AND REPORTING.

a. Solid Waste Annual Reporting Web-Based System. SWARWeb is a DOD system that tracks and reports installation solid waste and recycling data. The system also compares data with DOD metrics and provides trend analysis capabilities. SWARWeb can be accessed through the Army Knowledge Center and the Installation Management Application Resource Center.

a. Limitations of Current Disposal Capacities. Summarize the potential for onpost/local/regional landfills to either close or further restrict the acceptance of installation-generated wastes. Indicate whether other disposal facilities (e.g., incinerators or conversion plants) are expected to cease operation or restrict acceptance of installation-generated wastes.

b. Potential for Future Facilities. Include projections for the construction of new waste management, recycling, or composting facilities (e.g., cooperative or regional facilities).

c. Mission. The installation's mission affects the types and quantities of wastes and recyclables generated. Mission changes or base closure/realignment should be considered in the development of the ISWMP.

d. Size and Population. The size and population of the installation are directly related to the amount of solid waste and recyclables generated. Projected changes in the size or population should be noted in the ISWMP, to include the impact of the changes on all aspects of solid waste and recyclables management. Identify plans for changes in major command, garrison reorganization, or relocation of tenant activities since these can affect the workforce or residential population.

e. Recyclable Commodities Markets. Another important factor is the strength of recyclable markets, which may vary considerably and may determine whether or not an item is recycled. Details on recycling markets should be included in Section 9.

f. Community Relations. Describe any relevant public opinions or political pressures that may affect the installation's management of solid waste and recyclables.

g. Environmental Setting. Installations that are located in environmentally sensitive areas may encounter additional restrictions on the management of wastes. These additional restrictions should be discussed in the ISWMP to justify associated decision-making.

h. Regulatory Requirements. State and local regulations play an important role in solid waste management planning. The ISWMP must identify and reference all applicable state and local regulations. It may be useful to identify state or local requirements that are more stringent than the Federal standards or are believed to be unique to that locale.

i. Cost. A long-term comparative cost analysis of all feasible waste management options should be included in the ISWMP. Some factors to be considered are:

(1) Long-term (life cycle) costs associated with onpost landfills, such as routine operations, maintenance, equipment, groundwater and methane monitoring, permit renewals, site expansions, reporting and recordkeeping, closure, post-closure care, potential corrective actions, and future liabilities.

(2) Offpost disposal costs, such as tipping fees, collection and transport, vehicle maintenance (if performed with in-house resources), reporting and recordkeeping; and the need for alternative disposal methods for wastes excluded at the disposal site.

(3) Cost avoidance, such as the reduced costs of waste collection and disposal associated with starting or expanding a recycling program.

j. **Legal Factors.** Issues such as liability and future property ownership and land use may also factor into solid waste management decision-making. Any possible legal hindrances to the various solid waste management options should be identified in the ISWMP.

17. CONTINGENCY PLANNING. List information necessary in the event that current management or disposal options should fail, such as:

- a. All disposal/transfer facilities within a 50-mile range of the installation;
- b. An up-to-date list of POCs at commercial waste hauling or disposal facilities;
- c. Federal (EPA), state, and local solid waste management offices and contacts; and
- d. POCs at other military installations within a reasonable distance of the installation, particularly those operating onsite landfills. *(Note: This item is included for emergency/contingency planning only. It is Army policy that installation-operated landfills not accept wastes from outside sources.)*

WHAT IF...?

The ISWMP should evaluate the adequacy of current disposal mechanisms and evaluate for alternate disposal mechanisms in the event that the present facilities fail to meet disposal needs. It is recommended that prior arrangements or agreements be made with regional or local disposal facilities to confirm that a backup option exists. Participation in local planning boards may further secure the installation's interests in disposal contingency planning.

18. SOLID WASTE MANAGEMENT ACTION ITEMS. List the actions to be taken to achieve the solid waste management goals and objectives. Identify the primary organization/POC completing each task. Attach a timetable for task completion. The following are *examples* of action items:

a. Address implementation of this ISWMP at EQCC meetings or other installation forums. Use these meetings as forums to discuss concerns regarding solid waste management, recycling, or procurement issues.

b. Set up a waste exchange by electronic bulletin board, newsletter, or other means. Activities generating potentially reusable items will advertise the excess materials so they may be reused by another activity.

c. Enhance public education on waste management and recycling issues through public meetings, community events, school programs, and use of the media.

d. Report solid waste management data annually using SWARWeb. Include computation of the waste diversion rate resulting from implementation of the QRP.

e. Include provisions for the reuse or recycle of any excess or waste materials associated with C&D projects.

f. Initiate a low-technology compost operation for the management of yard wastes. Account for all waste diversion resulting from this operation.

g. Review the ISWMP every 5 years or periodically under certain conditions. Examples of conditions that would warrant reevaluation of the plan are regulatory changes, changes in the types or quantities of wastes generated, reductions in the waste stream due to successful minimization/recycling programs, changes in the availability of regional disposal facilities, and new or amended contracts that affect the installation's solid waste management program and/or practices.

APPENDIX A REFERENCES

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GLOSSARY**ACRONYMS AND ABBREVIATIONS**

AEDA	ammunition, explosives, and dangerous articles
AR	Army Regulation
ASTM	American Society for Testing and Materials
C&D	construction and demolition
CFR	Code of Federal Regulations
COR	Contracting Officer's Representative
DA	Department of the Army
DFAS	Defense Finance and Accounting Service
DLA	Defense Logistics Agency
DoD/DOD	Department of Defense
DoDI	Department of Defense Instruction
DOC	Director of Contracting
DOL	Director of Logistics
DPW	Directorate of Public Works
EO	Executive Order
EPA	U.S. Environmental Protection Agency
EQCC	Environmental Quality Control Committee
FAR	Federal Acquisition Regulation
FSRIA	Farm Security and Rural Investment Act
FY	fiscal year
GP	Green Procurement
GPP	Green Procurement Program
ISWMP	Installation Solid Waste Management Program
LEED	Leadership in Energy and Environmental Design
MSW	municipal solid waste
MWR	Morale, Welfare, and Recreation

P2	pollution prevention
POC	point of contact
QRP	Qualifying Recycling Program
RCRA	Resource Conservation and Recovery Act
SOP	standing operating procedure
SWAR	Solid Waste Annual Reporting
TG	technical guide
UFGS	Unified Facilities Guide Specification
USC	United States Code
USDA	U.S. Department of Agriculture

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