

SECTION 2

SANITATION

02.A GENERAL REQUIREMENTS

02.A.01 Employers shall establish and maintain basic sanitation provisions for all employees in all places of employment as specified in the following paragraphs.

02.B DRINKING WATER

02.B.01 An adequate supply of drinking water shall be provided in all places of employment. Cool water shall be provided during hot weather.

a. Drinking water shall be provided at continental United States (CONUS) fixed facilities according to the requirements of the Safe Drinking Water Act, as amended, and all applicable Federal, State, and local regulations. Refer to the most current version of 40 CFR 141 and 40 CFR 143, for updates to the national drinking water regulations. Refer to individual State and local regulations, as applicable, for updates in those regulations. CONUS facilities classified as suppliers of water--

(1) Must comply with substantive and procedural requirements pursuant to 40 CFR 141;

(2) Must meet any State and local regulations that are more stringent than the Federal regulations; and

(3) Shall ensure that the sanitary control and surveillance of water supplies and that the chlorination and fluoridation are conducted according with applicable guidelines.

EM 385-1-1

3 Nov 03

b. Drinking water at military outside continental United States (OCONUS) fixed facilities shall be provided in compliance with country-specific Final Governing Standards (FGS) or, in the absence of FGS, the National Primary Drinking Water Regulations (NPDWR) as outlined in the Overseas Environmental Baseline Guidance Document (OEBGD) (Department of Defense Instruction (DODI) 4715.5-G). In addition, the sanitary control and surveillance of water supplies and the chlorination and fluoridation shall be conducted according to applicable Department of Defense (DOD) Component guidelines, or if more stringent, the host nation requirements.

c. Drinking water for field activities shall be provided according to the procedures defined in Army Regulation (AR) 700-136; Field Manual (FM) 10-52; FM 21-10/Marine Corps Reference Publication (MCRP) 4-11.1D; and Technical Bulletin, Medical (TB MED) 577.

d. Drinking water on all Army floating vessels is provided according to 40 CFR 141 and chapter 6 of Navy Medical (NAVMED) P-5010-010-LP-207-1300.

02.B.02 Only approved potable water systems shall be used for the distribution of drinking water.

02.B.03 Drinking water shall be dispensed by means that prevent contamination between the consumer and the source.

02.B.04 Portable drinking water dispensers shall be designed, constructed, and serviced to ensure sanitary conditions; shall be capable of being closed; and shall have a tap. Containers shall be clearly marked as **“DRINKING WATER”** and shall not be used for other purposes. Water shall not be dipped from containers.

02.B.05 Fountain dispensers shall have a guarded orifice.

02.B.06 Use of a common cup (a cup shared by more than one worker) is prohibited without the cup being sanitized between uses. Employees shall use cups when drinking from portable water coolers/containers. Unused disposable cups shall be kept in sanitary containers and a waste receptacle shall be provided for used cups.

02.B.07 Nonpotable water.

a. Outlets dispensing nonpotable water will be conspicuously posted "**CAUTION - WATER UNSAFE FOR DRINKING, WASHING, OR COOKING.**" (Outlets dispensing nonpotable water at Corps Dumping Stations within campgrounds may, in lieu of this requirement, be posted in accordance with USACE's Engineering Pamphlet (EP) 310-1-6A and EP 310-1-6B.)

b. Cross-connection - open or potential - between a system furnishing potable water and a system furnishing nonpotable water is prohibited.

02.C TOILETS

02.C.01 When sanitary sewers are not available, one of the following facilities, unless prohibited by local codes, shall be provided: chemical toilets, recirculating toilets, combustion toilets, or other toilet systems as approved by State/local governments.

02.C.02 Each toilet facility shall be equipped with a toilet seat and toilet seat cover. Each toilet facility - except those specifically designed and designated for females - shall be equipped with a metal, plastic, or porcelain urinal trough. All shall be provided with an adequate supply of toilet paper and a holder for each seat.

02.C.03 Toilet facilities shall be so constructed that the occupants shall be protected against weather and falling objects; all cracks shall be sealed and the door shall be tight-fitting, self-closing, and capable of being latched.

EM 385-1-1
3 Nov 03

02.C.04 Adequate ventilation shall be provided and all windows and vents screened; seat boxes shall be vented to the outside (minimum vent size 4 inches (in) (10.1 centimeters (cm)) inside diameter) with vent intake located 1 in (2.5 cm) below the seat.

02.C.05 Toilet facilities shall be constructed so that the interior is lighted.

02.C.06 Toilets at construction job sites. (The requirements of this paragraph shall not apply to mobile crews having transportation readily available to nearby toilet facilities.)

a. Toilets shall be provided according to Table 2-1. Where toilet rooms may be occupied by no more than one person at a time, can be locked from the inside, and contain at least one toilet seat, separate toilet rooms for each sex need not be provided.

b. Under temporary field conditions, provisions shall be made to assure that at least one toilet facility is available.

TABLE 2-1

MINIMUM TOILET FACILITIES
(CONSTRUCTION SITES)

Number of Employees	Minimum Facilities (per sex)
20 or less	One
21 to 199	One toilet seat and one urinal for every 40 workers
200 or more	One toilet seat and one urinal for every 50 workers

02.C.07 Toilets at places of employment other than construction job sites.

a. Water closets, which are separate for each sex, shall be provided according to Table 2-2. Where toilet rooms may be occupied by no more than one person at a time, can be locked

from the inside, and contain at least one toilet seat, separate toilet rooms for each sex need not be provided.

TABLE 2-2
MINIMUM TOILET FACILITIES
(OTHER THAN CONSTRUCTION SITES)

Number of Employees	Minimum Facilities (per sex)
1 to 15	one
16 to 35	two
36 to 55	three
56 to 80	four
81 to 110	five
111 to 150	six
Over 150	one for each additional 40 persons

b. Each water closet shall occupy a separate compartment with a door that can lock from the inside and walls or partitions, between fixtures, of sufficient height to assure privacy.

02.C.08 Provisions for routinely servicing and cleaning all toilets and disposing of the sewage shall be established before placing toilet facilities into operation. The method of sewage disposal and location selected shall be in accordance with Federal, State, and local health regulations.

02.D WASHING FACILITIES

02.D.01 Washing facilities shall be provided at toilet facilities and as needed to maintain healthful and sanitary conditions. Washing

EM 385-1-1

3 Nov 03

facilities for persons engaged in the application of paints, coatings, herbicides, insecticides, or other operations where contaminants may be harmful shall be at or near the work site and shall be adequate for removal of the harmful substance.

02.D.02 Each washing facility shall be maintained in a sanitary condition and provided with water (either hot and cold running water or tepid running water), soap, and individual means of drying. However, where it is not practical to provide running water, hand sanitizers may be used as a substitute.

02.D.03 Whenever employees are required by a particular standard to shower, showers shall be provided in accordance with the following:

- a. One shower shall be provided for every ten employees (or fraction thereof) of each sex who are required to shower during the same shift;
- b. Body soap or other appropriate cleansing agent convenient to the shower shall be provided;
- c. Showers shall have hot and cold running water feeding a common discharge line; and
- d. Employees using showers shall be provided with individual clean towels.

02.D.04 Whenever employees are required by a particular standard to wear protective clothing, change rooms with storage facilities for street clothes and separate storage facilities for protective clothing shall be provided.

02.D.05 Whenever working clothes are provided by an employer and become wet or are washed between shifts, provision shall be made to ensure such clothing is dry before reuse.

02.E FOOD SERVICE

02.E.01 All cafeterias, restaurants, mess facilities, and related facilities on areas, projects, or installations shall be established, operated, and maintained in compliance with the health and sanitation recommendations of the United States Public Health Service and applicable State and local regulations.

02.E.02 All food service operations shall be carried out in a sound manner. Food shall be free from spoilage and kept uncontaminated throughout the storage, preparation, and serving process.

02.E.03 No food or beverage shall be consumed or stored in a toilet room or in any area exposed to a toxic material.

02.E.04 An adequate number of waste receptacles shall be provided in the food service area. Receptacles shall be constructed of corrosion resistant or disposable material, provided with solid tight-fitting covers (covers may be omitted where sanitary conditions can be maintained without the use of a cover), emptied at least daily, and maintained in a sanitary condition.

02.F WASTE DISPOSAL

02.F.01 Receptacles used for putrescible or liquid waste material shall be so constructed to prevent leakage and to allow thorough cleaning and sanitary maintenance. These receptacles shall be equipped with a solid tight-fitting cover, unless it can be maintained in sanitary condition without a cover. > ***Disposal of rubbish, debris, and litter is covered in 14.D.***

02.F.02 Solid and liquid waste shall be removed in a way that avoids creating a menace to health and as often as necessary to maintain a sanitary environment.

02.G VERMIN CONTROL

02.G.01 Enclosed workplaces shall be constructed and maintained, as far as practical, to prevent the entrance or harborage of rodents, insects, and other vermin. An effective

EM 385-1-1
3 Nov 03

rogram shall be instituted where the presence of
detected.