(September 2021)

PERFORMANCE CRITERIA

FOR

**SECTION 11 82 00**

**SOLID WASTE HANDLING EQUIPMENT**

09/21

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**GENERAL**

Part 1 - GENERAL

This Performance Criteria (PC) specifies the installation and quality of solid waste handling equipment.

* + - 1. REFERENCES
         1. Unified Facilities Criteria (UFC)

Contractor must comply with the following:

UFC 1-200-01 General Building Requirements

UFC 3-501-01 Electrical Engineering

UFC 4-510-01 Military Medical Facilities

* + - * 1. Military Standard

MIL-STD 1691 Construction and Material Schedule for Medical, Dental, Veterinary and Medical Research Laboratories

* + - * 1. National Fire Protection Association (NFPA)

NFPA 99 Healthcare Facilities Code

NFPA 101 Life Safety Code

* + - * 1. Military Health System Standards

Reserved for future

* + - * 1. American National Standards Institute (ANSI)

American National Standard Institute (ANSI) Z245.2

American National Standard Institute (ANSI) Z245.21

**1,1,6 Other Standards**

**A,** Reserve for future

* + - 1. DESCRIPTION & MATERIALS

All requirements within the MIL-STD 1691 JSN descriptions must be met as well as the performance guidelines listed in the following descriptions

* + - * 1. All JSN’S

**A**. Capacity per hour: [24 cubic yards with 45 second cycle time] [\_\_\_].

**B**. Electrified equipment must be UL listedwith 10 hp, 3/60/230-460 motor.

**C.** Controls:

On /Off key switch or Key Operator Control.

“On” light

Multi-cycle timer.

Full container indicating light.

Full container shut-down.

Compactor container positioning safety switch.

UL approved cabinet enclosure and power disconnect.

Mushroom emergency stop momentary contact switch.

Ejector buttons

Adjustable over-run timer.

Adjustable pressure switch.

Heavy duty ratcheting binder clamps to secure bin to compactor.

Access door with safety interlock switch.

Operation:

[Fully automatic (PLC)] [Manual]

Automatic safety retract start

[Continuous cycle] [Semi-automatic single cycle]

Start System: [keyless/coded] [Infrared] [photo electric].

Waste Compactor Monitoring System: Internet-based, wifi, reports accurate fullness data, to be compatible with selected compactor. Power: 120 V, 60 Hz, 20 Watt, 1 amp. For outdoor use.

System must not have an anticipated end of system support in the next [18] [\_\_\_] months. Systems being phased out are not acceptable.

* + - * 1. Compactor

M2200 – Compactor, 1.5 – 6 cu. yd., Receiver 15 – 40 cu. yd. Cap

**A**. General purpose compacting system for institutional use.

**B**. Hydraulic ram waste compactor with a minimum ram face pressure of 200 PSI.

**C.** Receiving box varies from 1.5 to 6 cubic yard capacity.

**D**. Able to accommodate waste receiving boxes from 15 to 40 cubic yard capacity.

**E.** Feed station with sealed connection between compactor and container to control leakage.

**F**. Provide compatible Compactor Monitoring System that is wifi internet based to report accurate fullness data.

**G.** Provide drain with hose to connect to sanitary or holding tank. For drainage of liquids within the compactor.

**2.1.3 Vertical Compactor**

**M2205 – Compactor, VERT, Freestanding, Front Door Loading**

**A.** General purpose compacting for hospitals and nursing homes.

**B.** Front door loading.

**C**. Free standing vertical waste compactor.

**D**. RAM thrust adjustable from 500 to 3,000 PSI.

. Front door loading.ing for hospitals and nursing homes.d container to control leakage. cturer.

**3.1 SUBMITTALS**

**3.1.1 Submittals required for government review**

**A.** Submittal requirements are outlined in [Division 01] [PWS SOW] [\_\_\_]

**B.** [Product Information must include manufacturer’s installation instructions, sizing (including required clearance for access and maintenance), utility requirements, isometric drawings, tagged floorplans showing placement for count accountability and accessories/options/consumables lists.]

**C.** **All submittals require Government approval prior to procurement. Submit all listed items herein, with information sufficient to show full compliance with the criteria. Submit all product selections for review and approval, including but not limited to: materials, finishes, colors, options, accessories, and complimentary products. Provide for review all warranties and service contracts and any available extended warranty or service options.**

**D.** Samples: Furnish material samples and full range of color selection options for all items that offer material and color selections.

**E.** Submit and highlight all applicable options for Government review for all items which optional accessories are provided.

**F.** [Joint Interoperability Test Command (JTIC) Approval Documentation.]

**3.2 QUALITY ASSURANCE**

**3.2.1 Materials and Equipment**

**A.** Materials and equipment must be standard products of a manufacturer regularly engaged in the manufacture of products which are of a similar material, design, and workmanship and are offered for sale on the commercial market through advertisements, manufacturer's catalogs, or sales brochures. The products must have been in commercial or industrial use under similar circumstances and of similar size for 2 years prior to selection for approval/procurement. Products must be supportable for at least three years after government acceptance.

**3.2.2 Alternative Service Record**

**A.** Products having less than a 2-year field service record will be acceptable if a certified record of the manufacturer's factory or laboratory tests demonstrating performance compliance is provided to the Contracting Officer.

**3.2.3 Service Support**

**A.** Equipment items must be supported by service organizations located near the equipment installation, able to service the equipment on a regular basis and respond to emergency calls throughout the warranty period.

**3.2.4 Manufacturer's Nameplate**

**A.** Each item of equipment must have an attached nameplate that is securely affixed in a conspicuous space. A nameplate listing only the name of the distributing agent is not acceptable. The nameplate must contain the following fields in English:

1. Manufacturer’s name and address

2. Model and Serial Number

3. Item’s utility ranges and/or capacities

4. Voltage, amperage, and applicable Underwriters Laboratory (UL) or Conformitè Europëenne (CE) rating if electrically powered

5. Date of manufacture

**3.2.5 Factory Inspection**

**A.** Arrange and perform all quality control and quality assurance inspections required by the technical sections of the criteria, unless otherwise specified. Report these inspections in the daily report to the Government inspector.

**3.2.6 Product Qualifications**

**A.** The products specified in the technical sections of this criteria establish standards for each item.

**3.2.7 Design Parameters**

**A.** It is not the intention of this Criteria to limit consideration to products of specific manufacturers. The product standards establish the characteristics for which submitted items of equipment will be reviewed and approved by the Government. Equipment furnished must meet each of the following parameters specified in the technical sections:

1. Size of equipment

2. Function of equipment

3. Standard and listed accessories and options

4. Equipment controls and performance of equipment

5. Construction of equipment

6. Finish

**3.3 STANDARDS DEVIATIONS**

**3.3.1 Reporting and Submission for Approval**

**A.** Submit for approval a record of deviations from the standards listed in section (3.2.7.A.) established for each specified product, before ordering equipment.

**3.4 DELIVERY, STORAGE AND PROTECTION**

**3.4.1 Packaging and Transporting**

**A.** Each unit of equipment must be placed in a substantial shipping container or crate for safe transportation to final destination. The shipping container or crate for heavy equipment must be on skid construction to facilitate handling by lift equipment.

**3.4.2 Packing List**

**A.** Clearly and legibly indicate on exterior of each container or crate the shipping address and a brief description of contents. Fasten to outside of container a packing list and complete instructions for uncrating equipment and setting it in place. Protect such information in a weatherproof envelope.

**3.4.3 Protection**

**A.** Properly protect all materials and equipment from injury and damage during storage, installation, and acceptance.

**3.5 INSTALLATION, VERIFICATION AND ACCEPTANCE TESTING**

**3.5.1 Qualifications of Installers and Inspectors**

**A.** If required by product warranty, use installers that are approved and licensed by the manufacturer. When required to complete installation, all electricians and plumbers used must be bonded and licensed in the project’s jurisdiction.

**B.** [Company specializing in installing the products specified in this section must have a minimum 5 years of documented experience.]

**C.** [Company specializing in installing the products specified in this section must be within 200 miles or 4 hours travel time.]

**3.5.2 Installation, Operation, Testing and Certification**

**A.** Products must be delivered in manufacturer’s original packaging with manufacturer’s installation instructions. Include clearly marked project reference.

**B.** Prior to installation, thoroughly examine the equipment, materials, and components for both visual defects and conformance with criteria.

**C.** Install all equipment in compliance with manufacturer’s written instructions and installation procedures.

**D.** After installation, the equipment must be inspected and tested under operating conditions. If the equipment fails an inspection or test, such defects/failures must be corrected. Upon correction of defects/failures, inspect and retest all affected functions related directly and indirectly to the defect or failure. Corrections, replacement, and retesting must be made at no additional expense to the Government.

**E.** Provide all items necessary to make equipment fully functional.

**F.** Provide appropriately trained personnel to energize, commission, inspect, electrical safety check, calibrate, certify, and provide all required technical testing for equipment and systems. Contractor must provide documentation, test reports and certification documentation attesting that the equipment is properly installed, functional, safe, calibrated, and ready for its intended use.

**G.** An equipment item will be considered defective if it cannot be made to meet all established criteria consistent with the activities listed in section (F).

**H.** Provide two sets of special tools, software, and any other item/s for each equipment [item] [item type] if required for maintenance and/or future reconfiguration of the item.

**I.** Contractor to supply all start-up supplies for medical equipment for a fully operational installation. Contractor must supply to the Government a listing of all needed supplies for ongoing equipment operation for each item of equipment requiring additional supplies for operation.

**J.** Engage a factory-authorized service representative to train Government’s staff and maintenance personnel to adjust, operate, and maintain medical equipment.

**K.** [Confirm functionality of required interfaces to other systems and networks.]

**3.6 WARRANTY**

**3.6.1 Minimum Requirements**

**A.** Warranty requirements are outlined in [Division 01] [PWS SOW] [\_\_\_].

**B.** [Provide manufacturer’s written warranty for all items listed. Provide warranty for a minimum of (1) year against defects in materials and workmanship. Warranty must provide for material, labor and all associated replacement and/or repair costs required to provide for a fully operational equipment replacement or repair. Submit manufacturers and installers standard service contract beyond the warranty period for Government review. Warranty must be transferrable to the final owner without risk of being voided. All warranty certification and documentation must be provided to the final owner after date of acceptance.]

**C.** Provide routine warranty service in accordance with manufacturer's warranty requirements, for a period of [12 months (minimum)] [\_\_\_] after the open for business date. Perform work during regular working hours. Perform service only by factory trained personnel. Maintain a maintenance log of all service orders performed during the warranty period.

**3.7 OPERATIONS AND MAINTENANCE (O & M)**

**3.7.1 Provide the following to the final owner**

**A.** Provide O & M data for all FFE-LVS as outlined in [Division 01] [PWS SOW] [\_\_\_].

**B.** Upon completion of equipment installation, furnish [two (2)] copies of operators/service/maintenance manuals for each type of equipment which will require service or maintenance

**C.** Each manual must contain operating instructions and information required for performing periodic maintenance on the equipment. Each service manual must include an illustrated parts breakdown which identifies each part of the unit with manufacturer’s part number, wiring diagrams, and a list of necessary service parts, tools, and equipment needed to support maintenance requirements.

**D.** Accessory Catalogs: Upon completion of the Project, furnish two copies of the manufacturer's catalogs containing optional accessory items available for all equipment relative to the procured equipment/system delivered herein.

**E.** Provide instruction video for cleaning and maintenance, when available.

**F.** Provide cleaning requirements for all items to prevent void of warranty.

**G.** [Provide contact information for Repair Technician or Emergency Repair Company]

**H.** Provide contact information to [Logistics, Pharmacy, Laboratory, and Biomedical Equipment Services.]

**I.** Train designated staff in the operation and maintenance of the provided equipment/system. Provide two training sessions for equipment/system users and two training sessions for maintenance personnel scheduled to accommodate shift work. [Provide training certificates that can be executed up to eleven months after the system is installed, in order to provide a refresher course for each group of trainees.] Provide DVD copy of the training with the O & M data.

**--End of Section--**