



RIVER PROTECTION PROJECT – WASTE TREATMENT PLANT
ENGINEERING SPECIFICATION
FOR
PACKAGING, HANDLING, AND STORAGE REQUIREMENTS

Content applicable to ALARA?

Yes No

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Yes No
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Revision History

Revision	Reason for Revision	Q Specification Revision Only Margin Reduced?		CM Only
		YES	NO	N/A
0	Used for Use	N/A	N/A	N/A
1	Sect. 6.3: require marking for inside storage Section 6.4: paint temp. members Sect. 6.5/6.6: add'l requirements Sect. 7.2/7.3: prep for outside storage Sect. 8: pallet requirements Sect. 8.7/8.11: add'l requirements Sect. 8.17: add'l requirements Sect. 11: insert submittal requirements Sect. 12 added to incorporate design change documents by reference Other editorial changes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	Section 2.2: "Supplier Design Deviation Request" corrected to "Supplier Deviation Disposition Request". Section 5.4.1/5.4.2/5.4.3: identify acceptable waterproof and vaporproof materials and desiccants. Section 6.6: Clarify requirements regarding use of marking materials. Section 8.9: Clarify chemical requirements for materials in direct contact with austenitic stainless steel and nickel-based alloys. Section 12: Previous section 12 becomes section 13. Addition of ASME NQA-2-1989 reference. Section 13: Previous section 12 becomes section 13. Addition of design change documents incorporated by reference. Incorporates 24590-WTP-3PN-G000-00001, 24590-WTP-3PN-G000-00003, 24590-WTP-3PN-G000-00010, 24590-WTP-3PN-G000-00014, 24590-WTP-3PN-G000-00021, 24590-WTP-3PN-G000-00022; only incorporation of previously approved design change documents with no additional modifications.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	Parag. 2.3: Clarify scope such that the requirements do not cover all hazardous materials. Parag. 5.4.2/5.4.3, Sect 12: Update from ASME NQA-2-1989 to ASME NQA-1-2000; include 49 CFR 393. Incorporate 24590-WTP-3PN-G000-00047: Parag. 5.7: Modify requirements for plugging openings. Incorporate 24590-WTP-3PN-G000-00032: Parag. 1.1: Modify to include tie down attachment point requirement. Parag. 4.4, new: Secure cargo to 49 CFR 393. Parag. 8.5: Modify Oversize or Heavy Lift Load requirements. Parag. 11.2, new (incorporated with modification): Transportation and Shipping documentation requirements. SCN text reformatted for clarity. Incorporate 24590-WTP-3PN-G000-00057:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

24590-WTP-3PS-G000-T0003, Rev 3
PACKAGING, HANDLING, AND STORAGE REQUIREMENTS

		Q Specification Revision Only Margin Reduced?		CM Only
	<p>Parag. 10.5, new: Visual inspection of stainless steel stored on wooden supporting structures.</p> <p>Parag. 12.3, new: Addition of 24590-WTP-3PS-NW00-T0002 as an applicable document.</p> <p>Including Incorporate by Reference SDDRs in Section 13; removed asterisks from previous revision.</p> <p>Other editorial changes.</p>			

Contents

1	Purpose	1
2	Scope	1
3	Definitions	1
4	General	1
5	Packaging	2
6	Marking and Labeling	3
7	Preservation	4
8	Preparation for Shipment.....	5
9	Handling	8
10	Storage	8
11	Submittals.....	9
12	Applicable Documents.....	10
13	Design Changes Incorporated by Reference.....	10

1 Purpose

- 1.1 This specification covers general requirements for packaging, shipping preparation (including tie down attachment point design), handling, and storing of components procured for use at the Hanford Tank Waste Treatment and Immobilization Plant (WTP).

2 Scope

- 2.1 This specification is to be used in conjunction with the purchase order and is in addition to any requirements contained in other specifications.
- 2.2 If the Seller finds a conflict between this specification and other requirements, the Seller shall obtain written clarification from the Buyer prior to proceeding with any work. Any deviation will require the submission of a Supplier Deviation Disposition Request (SDDR) to the Buyer.
- 2.3 This specification is not intended to provide exclusive directions for the proper storage or handling of all hazardous materials at the WTP.

3 Definitions

BUYER: Bechtel National Inc.

BUYER'S Authorized Representative: BUYER'S designee(s) who shall represent and act for BUYER in accordance with purchase order terms and conditions

SELLER: the entity responsible for primary supplier providing the deliverable items

4 General

- 4.1 The handling, storage, cleaning, packaging, and preservation of items shall be controlled to prevent damage or loss and to minimize deterioration. These activities shall be conducted in accordance with established work and inspection instructions, drawings, specifications, instructions, or other pertinent documents or procedures specified for use in conducting the activity.
- 4.2 When required for critical, sensitive, perishable, or high-value items, specific procedures for handling, storage, packaging, and preservation shall be used.
- 4.3 When required, special equipment (such as containers, shock absorbers, and accelerometers) and special protective environments (such as inert gas atmosphere, specific moisture content levels, and temperature levels) shall be specified and provided and their provision verified.

- 4.4 All material and equipment (cargo) must be prepared for shipment such that it can be secured for protection against shifting and falling cargo as specified in 49 CFR 393 Subpart I. For all cargo that cannot be crated or that requires direct securement to a transport vehicle, the Seller shall ensure that the cargo is designed or packaged with sufficient and adequate attachment points to limit movement in accordance with the requirements of 49 CFR 393 Subpart I.

5 Packaging

This section contains requirements for packaging of items for protection against corrosion, contamination, physical damage, or any effect that would lower the quality or cause the components to deteriorate during the time they are shipped, handled, and stored.

- 5.1 Package design requirements shall be for environmental protection to avoid the deleterious effects of shock and vibration, to control temperature and humidity within specified limits, or any other special requirements.
- 5.2 Items shall be inspected for cleanliness immediately before packaging. Dirt, oil, residue, metal chips, or other forms of contamination shall have been removed by cleaning methods approved by the Buyer. Any trapped water shall have been removed and the component dried.
- 5.3 Components that are not immediately packaged shall be protected from contamination.
- 5.4 Items requiring protection from damage from water vapor, salt air, dust, dirt, and other forms of contamination penetrating the package shall be packaged with a barrier. The barrier shall be based on the type, size, and weight of equipment and shall not be easily damaged by puncture, abrasion, weathering, cracking, temperature extremes, wind conditions, and the like. Barrier and wrap materials shall be noncorrosive and not harmful to the component protected. When barrier and wrap materials are used in direct contact with austenitic stainless steels, the total and water-leachable content of halogens shall not be harmful to the component packaged. In addition, barrier and wrap materials shall not readily support combustion. Vapor-proof barrier materials used with desiccants constitute another preservation system that protects against potential damage by water vapor condensate. Adequate protection shall be provided against mechanical damage and atmospheric corrosion in transit and, for equipment suitable for outside storage, for at least twelve months outdoor storage at the job site prior to installation.
- 5.4.1 Waterproof Barrier Material – Waterproof barrier material shall be resistant to grease and water; it shall protect items from airborne and windblown soils.
- 5.4.2 Vaporproof Barrier Materials – Vaporproof barrier materials shall be sealable, and the edge of the barrier that normally will be opened at the destination shall be of sufficient area to permit at least two subsequent sealing operations. When maximum vapor protection is required, the requirements in ASME NQA-1-2000, Subpart 2.2, Section 306, for maximum vapor protection shall be followed.
- 5.4.3 Desiccants – Desiccants shall be used within a waterproof or vaporproof barrier when condensation or high humidity could damage an item by corrosion, mold, or mildew. Desiccants

shall consist of non-deliquescent, non-dusting, chemically inert, dehydrating agents. Specific requirements for desiccants are contained in ASME NQA-1-2000, Subpart 2.2, Section 306.3.

- 5.5 Items that require protection from damage during shipping and handling shall be packaged in containers or crates.
- 5.6 Components that can be damaged by condensation trapped within the package shall be packaged with approved desiccant inside the sealed water- or vapor-proof barrier or an equivalent method. Signs indicating that desiccant has been installed shall be conspicuously located. A humidity indicator shall be included in every water- or vapor-proof envelope containing desiccant.
- 5.7 For mechanical components (valves, pipe, etc.), unless otherwise provided in the technical specification:
 - 5.7.1 All openings into items shall be capped, plugged, or sealed. Caps, plugs, tapes, and adhesives shall be of materials that enable them to perform their intended function adequately without causing deleterious effects on the items or system operation. Any material in contact with austenitic stainless steel or high alloy steels shall not have a total halogen content of greater than 200 ppm. Sulfur content shall not be greater than 400 ppm and total mercury content shall not exceed 50 ppm. The total of low melting point metals such as lead, zinc, copper, tin, antimony, and mercury shall not exceed 1 percent. Caps and plugs shall conform to the following criteria:
 - a) Nonmetallic plugs and caps shall be brightly or contrastingly colored. Clear plastic closures are not to be used except when specified for a special purpose.
 - b) Metallic plugs and caps contacting metal surfaces shall not cause galvanic corrosion at the contact areas. Gasketing or other nonmetallic materials used in conjunction with metallic caps or plugs shall exhibit no corrosive effect on the material.
 - c) Simplicity of installation, inspection, and removal without damage to the item shall be considered.
 - 5.7.2 All welding end connections shall be provided with adequate bevel protectors to protect from corrosion and physical damage.
- 5.8 Components packed in containers shall be blocked, anchored, braced, or cushioned to prevent physical damage to the item or barrier.
- 5.9 Electronic equipment shall be packed according to Seller recommended practices to avoid damage. Only minimum disassembly of cabling and wiring shall be done. All disassembled cables and other loose items shall be individually packaged and identified on the outside of the package.

6 Marking and Labeling

- 6.1 Measures shall be established for marking and labeling for the packaging, shipping, handling, and storage of items as necessary to adequately identify, maintain, and preserve the item.

- 6.2 Markings and labels shall indicate the presence of special environments or the need for special controls if necessary.
- 6.3 Items or containers of equipment or material shall be marked "Special Storage Requirements" when the storage is other than outside.
- 6.4 Temporary structural members for bracing or protection of equipment shall be painted bright, fluorescent yellow (including nuts and bolts).
- 6.5 Components and their containers shall be identified by marking. Shipping marks shall be on all sides of the package. The shipping marks shall be at least 3 inches high where space permits. Markings are to be in black or white paint or ink depending on the shade of the package surface. International cautionary symbols will be stenciled in red waterproof paint or ink. Bundles and reels and other packages that cannot be marked directly will have attached corrosion resistant metal tags with raised markings. Hazardous materials shall have appropriate markings. For the following types of packages, special markings shall apply:
- Containers of liquids, sensitive equipment, other items that must be maintained in a specified orientation during storage, handling, or shipping: Arrows, "This Side Up".
 - Packages, Pieces exceeding 8 feet in length or height: "Center of Gravity".
 - Packages, Pieces to be hoisted by tackle or cranes: "Sling Here".
 - Top Heavy Packages, Pieces: "Top Heavy" or "End Heavy".
- 6.6 Markings shall not be applied directly to stainless steel vessels or components. When marking is unavoidable, the marking materials shall meet the requirements of section 8.9 of this specification.

7 Preservation

Components subject to deleterious corrosion shall be protected by using contact preservatives, inert gas blankets, or vapor-proof barriers with desiccant.

- 7.1 Equipment surfaces shall be cleaned and painted as specified on data sheet and purchase order.
- 7.2 Equipment shall be prepared for long-term storage beyond six months at the construction site.
- 7.3 The RPP-WTP has limited capacity for storage of equipment and materials in climate-controlled areas. Equipment and materials should be prepared for outside storage. Only when absolutely necessary should indoor storage or climate controlled storage be specified.
- 7.4 The contact preservative shall be compatible with the material on which it is applied. The contact preservative shall not require disassembly of a component to apply or completely remove at the site. Complete removal may be accomplished by use of approved solvents. The Seller should obtain approval of contact preservative and removal solvents from the Buyer prior to use.

Contact preservatives and solvents appropriate for removal must be identified in documentation with the shipment.

- 7.5 When components are shipped with oil reservoirs and bearing cavities filled with preservative oil, the component shall be so tagged and instructions for draining, flushing, refilling, and periodic rotation shall be included with the component.
- 7.6 It is anticipated that components will require an extended storage period before or after installation or both. Any preservative needed for long-term protection of the item shall be applied by the Seller and arrangements shall be made for the Buyer to periodically reapply the preservative as required.
- 7.7 Exposed carbon steel finished and machined surfaces, including bolting, shall be given a heavy coating of rust inhibiting compound. Internal carbon steel surfaces shall be sprayed or coated with a suitable rust preventive only where required by drawing, or shall be protected by vapor phase inhibitor (VPI) crystals or desiccant, and tagged at openings to so indicate. The quantity of VPI crystals or desiccant shall be identified in documentation with the shipment.
- 7.8 Bearings, bearing housings, and oil systems including reservoirs, coolers, filters and piping shall be thoroughly cleaned of metal particles, dirt and debris, and coated with a suitable rust preventive. All openings shall be suitably tagged to indicate the shipping condition.
- 7.9 A dry inert gas provides a means of preventing moisture or corrosive atmosphere from acting on sensitive, bare metal surfaces or other materials. The component shall be either evacuated prior to filling with an inert gas or purged with the same gas prior to applying the gas blanket. Inert gas blankets shall be used only when the exterior shell of the item or its container can be tightly sealed or the inert blanket can otherwise be maintained. Only *dry*, oil free, inert gas shall be used. Provisions shall be made for measuring and maintaining the blanket pressure within the required range. The component or container shall be marked cautioning that an inert gas blanket has been used.
- 7.10 If electrical heating is required to maintain a suitable internal environment in a component during storage, the Seller shall supply the required electrical heaters and instructions for their use.

8 Preparation for Shipment

- 8.1 Components and barriers shall be protected from exposure to adverse environmental conditions.
- 8.2 Typical pallet footprint shall not exceed 48 inch x 48 inch. Longer pallets are acceptable for uniquely shaped items.
- 8.3 Pallets shall be configured for handling by a forklift or pallet jack. Handling requirements for items that cannot be handled with a forklift or pallet jack are required to be included in the "Site Storage, Handling, and Maintenance Requirements Manual".
- 8.4 Weight on pallet shall not exceed 6,000 lbs. or the capacity of the pallet whichever is less.

- 8.5 Items meeting the weight or dimensional standards for Oversize or Heavy Lift Loads, as listed in the Purchase Order “Shipping, Packaging and Marking Instructions”, items that are of an unusual shape, or items that require special handling shall be given additional considerations including:
- The type of bracing to be used with the selected mode of transportation shall be identified.
 - Special bracing, saddles or other support required for shipping shall be provided by the Seller.
 - Seller shall submit a proposed tie down plan to be used to transport the equipment in accordance with Department of Transportation requirements in 49 CFR 393 Subpart I. Evidence that the tie down attachment points meet these requirements must be submitted with the plan. The plan shall include any restrictions that must be implemented to prevent damage to the equipment during transportation.
 - Seller shall submit drawings of the load in its transport configuration. The drawings shall accurately and clearly identify:
 - Location of the center of gravity (cg) in all three directions
 - Accurate shipping dimensions and weight
 - Tie-down locations and details
 - Off-loading pick points
 - The use of impact recording meters on shipments of heavy or large items that include factory-installed instrumentation
- 8.6 The weight, lifting points, or center of gravity shall be indicated on the crate, skid, or package by the shipper and shall be utilized to ensure proper handling during loading, transfer between carriers, and unloading.
- 8.7 The center of gravity shall be at or below the mid-point vertically and shall be loaded on the truck such that the center of gravity is towards the side of the truck (forklift approach) in the horizontal plane.
- 8.8 Carbon steel rigging equipment shall not come in direct contact with stainless steel, except when attached to lifting lugs, eyes, or pads in order to avoid surface damage.
- 8.9 Austenitic stainless steel and nickel-based alloy materials shall be handled in such a manner that they are not in direct contact with the following:
- Materials with a leachable halogen content exceeding 200 ppm
 - Materials with a leachable sulfur content exceeding 400 ppm
 - Materials with a total of low melting point metals (such as lead, zinc, copper, tin, antimony or mercury) exceeding 1 weight percent
 - Materials with mercury content exceeding 50 ppm

If a portion of an austenitic stainless steel or nickel-based alloy item being packaged does contact any of the materials listed above that portion shall be cleaned by appropriate means.

- 8.10 Package or preservative coatings shall be visually inspected after loading and damaged areas repaired prior to shipment. Components shipped with desiccant shall be inspected to assure closures are intact.
- 8.11 Equipment with special storage requirements shall be packaged together, but separately from other equipment. These pallets shall be clearly marked with the storage requirements.
- 8.12 Sealed openings shall be visually inspected after loading to assure closures are intact. Materials used for resealing shall be in accordance with original packaging requirements.
- 8.13 Where special care is deemed necessary to avert damage, written instructions concerning the location or stacking limits for crates or boxes shall be marked on the containers.
- 8.14 Precautions shall be taken to minimize the possibility of theft or vandalism during shipment of components.
- 8.15 All equipment shall be packed, securely anchored (skid-mounted when required) and weather protected for the shipment method called for in the purchase order. Separate, loose, and spare parts shall be identified by item number and service, and marked as specified in the purchase order both inside and outside of each individual package or container.
- 8.16 All vessels, exchangers, tanks, and other equipment subject to internal moisture damage and protected by desiccant shall be provided with sufficient desiccant during shipment. All components protected by a dry inert gas shall be provided with sufficient gas and provisions for maintaining the blanket pressure within the required range during shipment.
- 8.17 Temporary bracing or supports, marked and tagged for removal after equipment installation, shall be provided to prevent damage during shipment and shall be painted bright, fluorescent yellow.
- 8.18 All equipment for ocean transportation must be export packaged to minimize any contact with seawater. Any equipment that cannot be export packaged must have paint or protective coating including 300 series stainless steel. Seller shall propose type of paint to be used. All openings shall be watertight. 300 series exchanger tubes shall require a positive nitrogen pressure of 3 psig minimum. Equipment shall be marked "Nitrogen Purged - Do not open".
- 8.19 Prior to shipment of equipment made of stainless steel or nickel based alloys, the Seller shall perform a visual inspection of all surfaces in contact with wooden supporting structures looking for evidence of surface corrosion. An NCR shall be created to resolve any corrosion issues identified.

9 Handling

- 9.1 A dynamic load factor of 1.5 times the maximum expected load shall be applied to all lift points. The allowable design stress shall equal the applicable code allowable design stress at ambient temperature.
- 9.2 The lifting lugs shall be designed to permit lifting the entire component without distortion or damage to the component.
- 9.3 The Seller shall identify any additional handling requirements due to weight, size, susceptibility to shock damage, high nil-ductility transition temperatures, or any other conditions that warrant special instructions to preserve the quality of the component and container.
- 9.4 The Seller shall provide any special designed equipment that is required to handle the component and is not available from a commercial source. Such equipment may include but is not limited to rigging devices such as spreader beams, strongbacks, and yokes. The load rating of the rigging device shall be permanently marked or stamped on the device. A dynamic load test equal to 110% of the maximum load to be handled by the complete system shall be performed by the Seller and witnessed by the Buyer's representative. Special tools and fixtures required to disassemble, assemble, lift, or maintain the unit shall be included in the quotation and furnished with the component. Each tool shall be labeled with its drawing number and intended use, and instructions on its use shall be provided.
- 9.5 Metal tags with raised faces that identify the maximum design load (excluding dynamic load factor) shall be provided for all lifting lugs, bails, and other lifting points.
- 9.6 Special handling tools and equipment shall be utilized and controlled where necessary to ensure safe and adequate handling.
- 9.7 Special handling tools and equipment shall be inspected and tested periodically or prior to use as necessary to ensure performance.
- 9.8 Operators of special handling and lifting equipment shall be experienced or trained to use the equipment.
- 9.9 Special handling tools and equipment shall be inspected and tested at specified time intervals and in accordance with implementing documents to verify that the tools and equipment are adequately maintained.

10 Storage

- 10.1 The Seller shall specify storage requirements to minimize the possibility of damage or lowering of quality due to corrosion, contamination, deterioration, or physical damage from the time the component is received by the Buyer until it is removed from storage and placed in its final location.

- 10.2 For components that may be stored outdoors, the Seller shall specify any cribbing or equivalent to allow for air circulation and to avoid trapping water.
- 10.3 Seller shall provide specific guidelines for storage beyond six months at the construction site.
- 10.4 Seller shall specify the shelf life for any items that may become unserviceable as a result of extended storage.
- 10.5 Prior to installation of stainless steel or nickel based alloy items stored outdoors at WTP, a visual inspection shall be performed of all surfaces in contact with wooden supporting structures looking for evidence of surface corrosion. An NCR/CDR shall be created to resolve any corrosion issues identified.

11 Submittals

- 11.1 The Installation Instruction Manual, G-321 -E Category 4.1 and the Site Storage, Handling and Maintenance Requirements Manual (SSHMM), G-321-E Category 4.4, shall be submitted to the Buyer for review and approval. Final copies of these documents are required to be delivered 90 calendar days prior to shipment of the equipment.
 - 11.1.1 **Installation Instruction Manual, G-321-E Category 4.1**
 - 11.1.1.1 All drawings and procedures required for safe assembly and installation of the equipment shall be included in the Installation Instruction Manual. The use of any special tooling shall be explained in detail.
 - 11.1.2 **Site Storage, Handling and Maintenance Requirements Manual (SSHMM) G-321-E Category 4.4**
 - 11.1.2.1 The SSHMM shall provide instructions for rigging and lifting any equipment or materials that are not placed on pallets that can be handled with a forklift. The Seller shall provide handling procedures and instructions containing sufficient detail, such as center of gravity, weights, sling location, balance points methods of attachment, maximum hoist speeds, ground loading and other pertinent features considered necessary for safe handling, to govern handling operations. Lifting requirements shall be provided along with any special precautions related to handling. The use of any special tooling shall be explained in detail.
 - 11.1.2.2 The SSHMM shall identify all equipment and materials that require other than outdoor storage.
 - 11.1.2.3 The SSHMM shall provide instructions and frequency of maintenance (including but not limited to lubrication, rotation, and heating) that will preserve the equipment until such time that it is put into operation. When an extended warranty is requested in the purchase order, the Seller shall provide instructions and frequency of maintenance required to maintain the warranty.

- 11.2 Transportation and Shipping Documentation (drawings and proposed tie down plan) identified in Section 8.5 shall be submitted to the Buyer for review and approval.
 - 11.2.1.1 These documents shall be submitted 90 days prior to shipment if the equipment has a gross weight of 100,000 lbs or more.
 - 11.2.1.2 These documents shall be submittal 30 days prior to shipment if the equipment has a gross weight of between 22,000 and 100,000 pounds and dimensions greater than 40 feet long, or if the equipment is 8 feet wide or high, is of an unusual shape, or requires special handling.

12 Applicable Documents

- 12.1 ASME NQA-1-2000, *Quality Assurance Requirements for Nuclear Facility Applications*. American Society of Mechanical Engineers, New York, NY.
- 12.2 49 CFR 393. Parts and Accessories Necessary for Safe Operation, Code of Federal Regulations.
- 12.3 24590-WTP-3PS-NW00-T0002, Engineering Specification for Chemical Requirements for Materials Used in Contact with Austenitic Stainless Steel and Nickel Based Alloys.

13 Design Changes Incorporated by Reference

24590-WTP-SDDR-PROC-03-0115
24590-WTP-SDDR-PROC-03-0116
24590-WTP-SDDR-M-05-00270
24590-WTP-SDDR-M-05-00297
24590-WTP-SDDR-M-06-00188
24590-WTP-SDDR-M-06-00221
24590-WTP-SDDR-M-06-00224
24590-WTP-SDDR-PL-05-00055
24590-WTP-SDDR-PL-05-00064
24590-WTP-SDDR-PL-05-00066
24590-WTP-SDDR-PROC-04-00619
24590-WTP-SDDR-PROC-04-00661
24590-WTP-SDDR-PROC-04-00870
24590-WTP-SDDR-PROC-05-00572
24590-WTP-SDDR-CSA-08-00058*
24590-WTP-SDDR-E-07-00005*
24590-WTP-SDDR-E-07-00010*
24590-WTP-SDDR-E-07-00015*
24590-WTP-SDDR-E-07-00017*
24590-WTP-SDDR-E-07-00018*
24590-WTP-SDDR-E-08-00002*
24590-WTP-SDDR-E-08-00019*
24590-WTP-SDDR-E-11-00004*
24590-WTP-SDDR-E-11-00009*

**24590-WTP-3PS-G000-T0003, Rev 3
PACKAGING, HANDLING, AND STORAGE
REQUIREMENTS**

24590-WTP-SDDR-E-12-00032*
24590-WTP-SDDR-E-14-00001*
24590-WTP-SDDR-HV-14-00004*
24590-WTP-SDDR-HV-15-00003*
24590-WTP-SDDR-J-11-00011*
24590-WTP-SDDR-J-14-00107*
24590-WTP-SDDR-J-15-00025*
24590-WTP-SDDR-MH-07-00155*
24590-WTP-SDDR-MH-08-00053*
24590-WTP-SDDR-MH-08-00061*
24590-WTP-SDDR-MH-08-00100*
24590-WTP-SDDR-MH-08-00101*
24590-WTP-SDDR-MH-08-00169*
24590-WTP-SDDR-MH-09-00043*
24590-WTP-SDDR-MH-09-00246*
24590-WTP-SDDR-MH-11-00040*
24590-WTP-SDDR-MH-11-00103*
24590-WTP-SDDR-MH-12-00013*
24590-WTP-SDDR-MH-12-00052*
24590-WTP-SDDR-MS-08-00012*
24590-WTP-SDDR-MS-08-00022*
24590-WTP-SDDR-MS-09-00008*
24590-WTP-SDDR-MS-09-00012*
24590-WTP-SDDR-MS-09-00036*
24590-WTP-SDDR-MS-10-00021*
24590-WTP-SDDR-MS-10-00057*
24590-WTP-SDDR-MS-10-00115*
24590-WTP-SDDR-MS-10-00125*
24590-WTP-SDDR-MS-11-00044*
24590-WTP-SDDR-MS-11-00170*
24590-WTP-SDDR-MS-11-00244*
24590-WTP-SDDR-MS-11-00297*
24590-WTP-SDDR-MS-12-00009*
24590-WTP-SDDR-MS-12-00088*
24590-WTP-SDDR-MS-12-00171*
24590-WTP-SDDR-MS-14-00019*
24590-WTP-SDDR-MS-14-00060*
24590-WTP-CDR-CON-08-0198*

* new