

Packaging .. Jul 2003
NNSA
SF-500

Type A
→ 49 CFR
173.600
+ 492
AF → type A
per
time
Transport
safeguards
system

After the quantity of RAM is determined, the customer uses that information to determine which of the following processes described in the Sections 3.4 and 3.5 is applicable.

3.4 Type A Quantity RAM

3.4.1 DOT Compliant Shipments

For shipments that contain a Type A quantity of RAM and are otherwise 49 CFR compliant, the Site/Contractor may make shipments of Type A packaging in compliance with the Department of Transportation regulations.

3.4.2 Type AF Package Certified by United Kingdom Ministry of Defence (UK MOD) Transported in TSS

The Weapon System Program Manager shall submit a request to PCD and OST for authorization to transport Type AF package UK MOD in the TSS. The PCD Manager shall assign a CE or TSRP to evaluate the proposed UK MOD Type AF package's compliance with 10 CFR 71 and 49 CFR 173 requirements, and to assess the adequacy of the UK MOD's safety documentation and the package by conducting or managing an independent confirmatory technical assessment. This review shall consist of validation of the proper use of the packaging for the application intended. The PCD shall assure that the proposed configuration is within maintenance and serviceability dates, and can be delivered within prescribed deadlines. Review of DOE/NNSA users operating procedures are completed in accordance to work process defined for US origin Type A packaging designs. The CE shall also work with OST to ensure that the package is compatible with TSS equipment and the tiedown procedures are contained in TP 45-51D, DOE Tiedown Manuals or approved in a separate correspondence from OST to PCD before an OTC/OTA is issued.

3.4.4 Shipment of Nuclear Weapon Special Assemblies that contain less than Type B quantity of RAM or no RAM

The shipper and receiver must be in the possession of the current version of the OTA whose authorized content matches the content of the special assembly proposed for off site shipment; or, must submit a request for an OTA supported by a HAR, and wait until the OTA is issued before making the shipment. See Appendix B for guidance developing the HAR.

3.5 Type B Quantity RAM

Shipments that contain a Type B quantity of RAM must be packaged and shipped in:

- A. Type B packaging certified under a DOE/NNSA OTC (see Section 3.5.1);
- B. Packaging or weapon handling gear specified in an OTA, (see Section 3.5.4, as applicable);

to review the TSRA. See Appendix B for guidance for developing TSRA's for special assemblies.

3.5.5 Type B Packages Certified Under DOE CofCs

If the proposed contents and configurations match the authorized contents and configurations of packages certified by the DOE Certification Office (EM-5), there is packaging reciprocity between the DOE Certification Office and the NNSA Approval Authority for packaging certification and shipment authorizations. The user of these packages must have DOE approved packaging procedures and a DOE/NNSA approved quality assurance plan.

3.5.6 Type B Package Certified Under NRC or IAEA/DOT CofCA Transported in TSS

The prospective applicant must be an authorized NRC licensee. The proposed NNSA user/applicant of Type B Package certified under an NRC or IAEA/DOT CofCA must submit a request to PCD and OST via the Package Line Manager/Weapon System Program Manager requesting authorization to transport the NRC or IAEA/DOT CoCA package in the TSS. The applicant and the Package Line Manager/Weapon System Program Manager must understand that DOE/NNSA cannot issue revisions to NRC or IAEA/DOT CofCAs or their certified packagings. The only viable alternative would be for the applicant to submit a SARP that would be reviewed by a TSRP. The applicant's request to ship a NRC or IAEA/DOT package under a valid CofCA in the TSS must comply with the CofCA requirements and applicable federal regulations, and must provide the documentation needed to validate the packages compatibility with the TSS loading, unloading, tiedown and any other specified requirements. The PCD Manager shall assign a CE or TSRP to evaluate the package's compliance with 10 CFR 71 and 49 CFR 173 requirements, and to assess the adequacy of the NRC or IAEA/DOT package's safety documentation and the package by conducting or managing an independent confirmatory technical assessment. This review shall consist of the validation of the proper use of the packaging for the application intended. The PCD shall assure that the proposed configuration is within maintenance and serviceability dates, and that it can be delivered within the prescribed deadlines. PCD shall issue a memorandum to OST that documents the results of the review. The CE shall also work with OST to ensure that the package is compatible with TSS equipment and the tiedown procedures are contained in either TP 45-51D, DOE Tiedown Manuals or approved in a separate correspondence from OST to PCD before an OTC/OTA is issued.

→ Incl
TSS

3.5.7 Type B Package Certified by UK MOD Transported in TSS

The Weapon System Program Manager shall submit a request for authorization to transport Type B Package certified by UK MOD in the TSS to PCD and OST. The PCD Manager shall assign a CE or TSRP to evaluate the proposed UK MOD Type B package's compliance with 10 CFR 71 and 49 CFR 173

requirements, and to assess the adequacy of the UK MOD's safety documentation and the package by conducting or managing an independent confirmatory technical assessment. This review shall consist of validation of the proper use of the packaging for the application intended. The PCD shall assure that the proposed configuration is within maintenance and serviceability dates, and can be delivered within prescribed deadlines. Reviews of DOE/NNSA users operating procedures are completed in accordance with work process defined for US origin Type B packaging designs. The CE shall also work with OST to ensure that the package is compatible with TSS equipment and that the tiedown procedures are contained in TP 45-51D, Technical Manual, Tiedown Procedures for Type-B Containers Shipped in Safe-Secure Trailer/Safeguards Transporter (SST/SGT), DOE/OST Tiedown Manuals or approved in a separate correspondence from OST to PCD before an OTC/OTA is issued.

3.6 Revocation of Authorization to Use Type B Package

Revocation of a certificate for a specific shipper or class of shippers may occur if any of the following situations arises:

- A.** Failure of the packaging.
- B.** Disclosure that the currently certified package fails to meet the applicable regulatory requirements (requirements in effect when the package was first designed and certified).
- C.** User violates the OTC.
- D.** User violates the associated SARP.
- E.** Use of packaging to package something other than the authorized content.
- F.** Violation of shipment loading limits.
- G.** Changes in the regulations or the law that would invalidate the certification. Noncompliance with the DOE-approved QAPP that conforms to 10 CFR 71 Subpart H.

3.7 Authorization of Shipping Conveyances

Only OST owned and operated vehicles or other vehicles authorized by the OST, as provided in DOE Order 461.1A, are authorized for off site transport of nuclear weapon components, Category I and II special nuclear materials, nuclear weapon program special assemblies, and other materials of national security interest.

3.8 Identification and Control of Items

The users of the DOE/NNSA Service Center Package Certification and Offsite Transportation Authorization products and services should maintain quality assurance programs that provide for a management system that establishes and implements methods to identify, maintain, and control items and activities and to prohibit the use of incorrect or unidentified items.