

RPR 55LSA. EXCLUSIVE-USE VEHICLE SHIPMENT OF LSA RADWASTE

Instructions: This check list should be used for all radwaste or mixed waste shipments to be made by exclusive-use vehicle. The check list for the exclusive-use vehicle RPR 55EUV shall also be completed. Unless otherwise indicated, all references are to U. S. Department of Transportation regulations, found in Title 49 of the Code of Federal Regulations (49 CFR). Initial each item upon completion or verification. The person responsible for the shipment shall sign and date the check list after all items have been completed. The completed check list shall be submitted to, approved and retained by the RSO.

Initials

Contents

_____ The contents of the shipment will be obtained from the RADSAFE database and need not be entered on this check list. However, the contents shall be verified to meet the criteria for LSA.

_____ Contents of all containers meet the LSA criteria. If not, use RPR 55RW.

Containers

_____ All containers meet the intent of 173.24 and 173.425.

_____ All containers are in good physical condition with no evidence of damage, corrosion or leakage. [173.475]

_____ All drum lids are provided with gaskets and fit securely. [173.475]

_____ All metal drums with a capacity of 55 gallons or greater shall have a 5/8 inch or larger bolt for securing the closure ring. Bolt should be torqued to approximately 65 foot-pounds.

_____ All metal containers shall have an intact heavy duty closure device when presented for disposal. Wooden boxes shall be banded with metal bands. (US Ecology Washington license)

Labels and Markings

_____ All markings shall be durable, in English, legible, displayed on a background of sharply contrasting color, unobscured and located away from any other marking (e.g. advertising) [172.304]

_____ Each container is usually marked with lettering at least 1/2-inch high: "RADIOACTIVE MATERIAL, Low Specific Activity (LSA I, LSA-II, or LSA_III (as appropriate)) UN2912, UN3321, or UN3322 (respectively)". [172.101, 172.301] However, for LSA materials shipped in an exclusive-use vehicle, the LSA marking on each package is not required. [172.400(a)(7)] However, the exterior of each nonbulk package must be stenciled or otherwise marked "Radioactive - LSA" or "Radioactive - SCO".[173.427(a)(6)(vi)]

_____ If the contents include flammable liquids in containers of more than 1 pint capacity, each package shall be marked with the following: "THIS END UP" and an arrow pointing up, and a "FLAMMABLE LIQUID" label. [172.312]

_____ Each container weighing more than 50 kilograms (110 pounds) shall be clearly marked with the gross weight and unit of measurement (kilograms((pounds))). [172.310(a)]

_____ For shipments directly to the burial ground operator/broker, the waste class shall be marked on each container in lettering more than 1/2 inch high. Choices: **Class A Unstable** (most likely), Class A Stable, Class B or C. [10 CFR 61.57 and US Ecology Washington license] Shipments to a processing broker need not be marked with waste class.

Radiation Survey

Exposure rates measured with survey instrument: _____

Ser. No.: _____ Calibration date: _____

Maximum at surface = _____ mR/hr; at 1 meter = _____ mR/hr

_____ Less than 2 mSv/h (200 mR/h) at all points on the surface of the container. Transport index does not exceed 10, i.e. less than 0.1 mSv/h (10 mR/h) at 1 meter. [173.441(a)]

Contamination measured with survey instrument: _____

Ser. No.: _____ Efficiency: _____ Calibration date: _____

Count rates (cpm or cps): Gross: _____ Background: _____ Net: _____

_____ Less than 110 Bq (3 nCi) or 6600 dpm alpha and less than 1100 Bq (30 nCi) or 66000 dpm beta-gamma removable contamination **per wipe of 300 cm²**. [173.443(a)]

Surveyed by: _____

Shipping Papers and Other Paperwork

_____ Verify there is a signed Certification form (RHF-31B for state and local government generators) for the Site Use Permit.

_____ Verify that the listing of the contents of all containers is available from the RADSAFE database.

_____ On the front sheet of the manifest, and on the bill of lading, enter the proper shipping name, hazard class, identification number and number of packages of each class. [172.202 and 172.203(d)], e.g.:

"Radioactive material, low specific activity (LSA-I), 7, UN2912"

_____ Enter the name and activity of each radionuclide contained in the package, and the physical and chemical form if not special form; entries shall agree with information on the package labels.

_____ Except for Limited Quantities, the following certification shall be printed on the shipping paper and signed by the RSO [172.204]:

"This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation."

_____ The RSM (manifest) is complete and signed. Retain a legible copy of the completed shipping papers for Radiological Health Department files.

_____ The number of containers listed on the RSM agrees with the physical count of containers loaded.

_____ The consignee has been notified of the expected time of shipment arrival.

Prepared by (signature): _____

Date: _____

RSO approval (signature): _____

Date: _____

