

RPR 55C – QA Checklist UN2915 Type A Shipment by Public Highway

Shipment number: _____

Shipment Date: _____

Shipper: _____

1. _____. Ensure the material to be shipped does not meet the definition of any other hazard class and is not a hazardous waste.
2. _____. Ensure the packaging meets the USA DOT-7A Type A (49 CFR 178.350) specification and that test data and closure instructions are available.
3. _____. Ensure the radioactive contents do not exceed the A2 value for normal form or the A1 value for special form.
4. _____. If the material is special form, ensure that an IAEA Certificate of Competent Authority is available (49 CFR 173.476).
5. _____. If fissile materials (U-233, U-235 in enriched uranium, Pu-239, and Pu-241) are present, ensure the material is fissile excepted in accordance with 49 CFR 173.453.
6. _____. Inspect the packaging to ensure it is in good condition, especially gaskets.
7. _____. Package the material according to the manufacturer instructions.
8. _____. Perform a shipment survey on the package as specified in RS-08, Section 8.10.
 - The non-fixed contamination on the exterior of the package must not exceed the limits specified in 49 CFR 173.443(a), 7200 dpm beta-gamma per 300 cm² and 720 dpm per 300 cm² alpha.
9. _____. Mark the package in accordance with 49 CFR 172 Subpart D.
 - Proper shipping name and UN number (see Subpart D for size requirements)
 - Consignee's or Consignor's name and address unless the package will not be transferred from one motor carrier to another.
 - Gross weight and unit if greater than 110 lb.
 - USA DOT 7A TYPE A.
 - If the material is a hazardous substance (RQ fraction is greater than or equal to 1), mark the package "RQ".
10. _____. Label the package in accordance with 49 CFR 172 Subpart E.
 - Determine the radioactive label category based on the shipment survey results.

- Determine the radionuclides to enter based on the A2 fractions in accordance with 49 CFR 173.433(g).
- Enter the total activity in the package in Bq multiples.
- For Yellow II or Yellow III labels, enter the Transport Index (dose rate at 1 m rounded up to the next tenth).
- Apply labels to two opposite sides of the package.

11. _____. Prepare a bill of lading for the shipment (49 CFR 172 Subpart C) using either the ISU form or the form for the selected carrier. Ensure the following information is present.

- X or RQ in the hazardous material column
- UN number
- Proper shipping name
- Hazard class
- Number and type of packages
- Radionuclide names determined based on A2 fractions and 49 CFR 173.433 (g)
- For normal form material the physical and chemical form
- For special form material the words special form are included in the proper shipping name.
- The total activity in the package in Bq multiples.
- The label category e.g. Radioactive Yellow II
- For Yellow II or Yellow III labeled packages the Transport Index
- If the package contains fissile radionuclides, "fissile excepted".
- Shipper's certification 49 CFR 172.204.
- Signature and date.
- Enter your cell phone number for the emergency response number. Note you must be available 24 hours a day at the number until the shipment arrives.

12. _____. Provide a copy of the emergency response guide 163 to the carrier.

13. _____. If the label is Yellow III, provide radioactive placards to the carrier if they do not have them.

Reviewed by: _____