

RPR 55D – QA Checklist UN2915 Type A Shipment by Aircraft

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 (IATA 10.6.2.4) 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) and that it meets the requirements of IATA 10.3.4.2.
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 IATA 10.3.7.2.3.
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-19-08, Section 7.9.
 - The combined dose rate on contact with the package must be less than or equal to 200 mrem/hr and the dose rate at 1m must be less than or equal to 10 mrem/hr.
 - The non-fixed contamination on the exterior of the package must not exceed the limits specified in IATA 10.5.3.2, 7200 dpm beta-gamma per 300 cm² and 720 dpm per 300 cm² alpha.
9. _____. Mark the package in accordance with IATA 10.7.1.3.
 - Proper shipping name and UN number (see 10.7.1.2.4 for size requirements)
 - Shipper and Consignee's name and address.
 - Permissible Gross weight and unit if gross weight exceeds 50 kg.
 - USA DOT 7A TYPE A. IATA 10.7.1.3.4
 - If the material is a hazardous substance (RQ fraction is greater than or equal to 1), mark the package "RQ". USG-4
10. _____. Label the package in accordance with IATA 10.7.3.
 - Determine the radioactive label category based on the shipment survey results.

- Determine the radionuclides to enter based on the A2 fractions in accordance with IATA 10.7.3.3.1 (b).
- 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. One label must be on the same surface as the proper shipping name mark. IATA 10.7.4.2.
- Apply Cargo Aircraft Only labels adjacent to the radioactive labels.

11. _____. Prepare the FEDEX US airbill for the shipment.

- Enter the date.
- Enter shippers name for Sender's name.
- Enter account number, company, phone, and address are pre-printed.
- Enter Recipients Name
- Enter Phone for recipient
- Enter Company
- Enter Address
- Check desired delivery type for Express Package Service
- Check Other for packaging
- Check No Signature Required for Special Handling
- Check Yes as per Attached Shipper's Declaration for Does this shipment contain dangerous goods?
- Check Sender for Payment bill to:
- Enter 1 for total packages.
- Weigh the package and enter the total weight in lbs.
- Enter 0 for Total Declared Value.

12. _____. Complete the FEDEX Dangerous Goods Declaration IATA 10.8

- Enter shipper name, address, and phone number.
- Enter Consignee name, address, and phone number.
- Overwrite Passenger and Cargo Aircraft with XXXs.
- Enter the appropriate city for Airport of Departure
- Enter the appropriate city for Airport of Destination
- Enter Air Waybill No.
- Enter 1 of 1 for Pages
- Overwrite NONRADIOACTIVE with XXXs.
- Enter UN2915 for UN No.
- Enter "Radioactive Material, Type A Package" for Proper Shipping Name.
- Enter 7 for Class
- Leave Packing Group blank.
- Enter the following for Quantity and type of packaging for mixtures of radionuclides. For individual nuclides packaged together see IATA 10.8

- Name of radionuclides in mixture.
- Physical and chemical form
- 1 Type A Package
- Activity in Bq units
- Enter the following for Packaging Inst.
 - Label category e.g. II-Yellow
 - TI: value for transport index on Yellow II and Yellow III.
 - Dims (L) XX cm x (W) XX cm x (H) XX cm
- Leave Authorization blank.
- Enter shipper's cell phone number for Emergency Telephone Number
- Enter shipper's name and title.
- Enter City, ID and date for place and date.
- Shipper signs the form.

13. _____. Attach the documents to the package.

- Attach a FedEx documents sleeve to the top of the package.
- Place Emergency Response Guide 163, 3 signed copies of the Declaration for Dangerous Goods with red hatching, and the FedEx US Airbill in the sleeve.
- Do not seal the sleeve.

Reviewed by: _____