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.
   - Do not seal the sleeve.

Reviewed by: ______________________________