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-08, Section 8.10.
   - 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
    - Do not seal the sleeve.

Reviewed by: ______________________________