



# RADIOACTIVE

## 2019 DG Checklist

Tracking # \_\_\_\_\_

The continued offering of non-compliant dangerous goods packages may result in the embargo of your dangerous goods shipments by FedEx Express. Date \_\_\_\_\_

**DIRECTIONS:** Mark the appropriate box for each item to indicate if the shipment complies with the requirement. Check all sides of the package, as applicable.

- |   |   |
|---|---|
| 1. Shipment acceptable by both origin and destination locations. [eSRG]                               | <input type="checkbox"/> Y <input type="checkbox"/> N |
| 2. <b>Package</b> in good condition and <b>free of leakage, odor, or external damage.</b> [5.0.2.4.1] | <input type="checkbox"/> Y <input type="checkbox"/> N |
| 3. Package is within TI limits. [10.5.15.1 (c)]   | <input type="checkbox"/> Y <input type="checkbox"/> N |
| 4. <b>Shipper's Declaration</b> included.   | <input type="checkbox"/> Y <input type="checkbox"/> N |

### ON THE DECLARATION

Tracking number may be completed by Shipper or DG Specialist. Shipper must provide 3 copies in English and at least 2 copies with red hatchings. (FX-08)

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|--|--|
| 5. <b>Typewritten or computer-generated.</b> Some fields may be handwritten. [FX-07]   | <input type="checkbox"/> Y <input type="checkbox"/> N                              |
| 6. <b>Shipper and consignee name and full address.</b> For 023 shipments, shipper's address includes country name. [10.8.3.1; 10.8.3.2]  | <input type="checkbox"/> Y <input type="checkbox"/> N                              |
| 7. <b>Page of Pages.</b> [10.8.3.4]  | <input type="checkbox"/> Y <input type="checkbox"/> N                              |
| 8. <b>Passenger and Cargo Aircraft or Cargo Aircraft Only</b> limitations correctly indicated. For Passenger and Cargo Aircraft: <ul style="list-style-type: none"><li>• must be 3.0 TI or less per package <b>AND</b></li><li>• any statement indicating for use in research or medical diagnosis or treatment.</li></ul> Limitations include additional restrictions of States and Operators. [10.8.3.5; USG-10] | <input type="checkbox"/> Y <input type="checkbox"/> N                              |
| 9. <b>Radioactive</b> correctly indicated. [10.8.3.8]  | <input type="checkbox"/> Y <input type="checkbox"/> N                              |
| 10. <b>UN number</b> preceded by prefix "UN". [10.8.3.9.1, Step 1]   | <input type="checkbox"/> Y <input type="checkbox"/> N                              |
| 11. <b>Proper Shipping Name.</b> [10.8.3.9.1, Step 2]  | <input type="checkbox"/> Y <input type="checkbox"/> N                              |
| 12. <b>Class 7.</b> [10.8.3.9.1, Step 3]   | <input type="checkbox"/> Y <input type="checkbox"/> N                              |
| 13. <b>Subsidiary hazard(s)</b> , if applicable, in parentheses immediately following class or division. [10.8.3.9.1, Step 4]  | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A |
| 14. <b>Packing Group</b> , when applicable, corresponding to subsidiary hazard. [10.8.3.9.1 Step 5]  | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A |
| 15. <b>Name or symbol of radionuclide(s)</b> (e.g., Ir-192, Mo-99). [10.8.3.9.2 Step 6]  | <input type="checkbox"/> Y <input type="checkbox"/> N                              |
| 16. <b>Description of physical and chemical form</b> (e.g., liquid sodium iodide, solid metal) or <b>Special Form</b> (if not included in PSN for Type A package). [10.8.3.9.2, Step 6 (b)]  | <input type="checkbox"/> Y <input type="checkbox"/> N                              |
| 17. <b>Number of packages and type of packaging</b> (e.g., 1 Type A, 1 Type B[U]). [10.8.3.9.2, Step 7]  | <input type="checkbox"/> Y <input type="checkbox"/> N                              |
| 18. <b>Activity of radionuclide(s)</b> in Becquerels (e.g., Bq, MBq, GBq, TBq, etc). For fissile material, the total weight in grams or kilograms of the fissile material may be shown in place of activity. [10.8.3.9.2, Step 7]  | <input type="checkbox"/> Y <input type="checkbox"/> N                              |
| 19. <b>Type A Package:</b>   | <input type="checkbox"/> N/A   |
| a. <b>Single Radionuclide:</b> Activity within limits for Type A packages. [Table 10.3.A] For domestic shipments only: Mo-99 A2 = 0.74 TBq   | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A |
| b. <b>Two or More Radionuclides:</b> Activity for each radionuclide does not exceed the applicable A <sub>1</sub> or A <sub>2</sub> value. [Table 10.3.A]  | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A |

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| 20. <b>Two or more individual radionuclides in package.</b> Activity listed for each individual radionuclide. All Packed In One listed. [10.8.3.9.2]   | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A |
| 21. <b>Two or more radionuclides in mixture or solutions.</b> Total activity listed for mixture or solution. Mixture or solution indicated in Quantity and Type of Packing (e.g. solid salt mixture or liquid salt solution). [10.8.3.9.2, Steps 6 and 7; FX-03 (d)] | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A |
| 22. <b>Category of label</b> (e.g., I White, II Yellow, III Yellow). [10.8.3.9.3, Step 9]  | <input type="checkbox"/> Y <input type="checkbox"/> N                              |
| 23. <b>II Yellow and III Yellow:</b> Transport Index (TI) to one decimal place. [10.8.3.9.3, Step 9]   | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A |
| 24. <b>II Yellow and III Yellow:</b> Dimensions of package in metric units. [10.8.3.9.3, Step 9]   | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A |
| 25. <b>III Yellow:</b> TI must not exceed 10.0 per package. [Table 10.5.C]   | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A |
| 26. <b>Special Form shipment: Special form approval certificate number</b> indicated on declaration (not required for U.S. domestic shipments). [10.8.3.9.4, Step 10]  | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A |
| 27. <b>Special Form shipment:</b> Copy of approval, in English, attached (not required for U.S. domestic shipments). [10.8.3.9.4, Step 10]   | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A |
| 28. <b>Type B package:</b> Design approval number indicated on declaration. [10.8.3.9.4, Step 10]  | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A |
| 29. <b>Type B package:</b> Copy of approval document(s), in English, attached (not required for U.S. domestic shipments). [10.8.3.9.4, Step 10]  | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A |
| 30. <b>Plutonium in Type B Package:</b> Specific approval documents from FedEx Legal/Radiation Physicist attached. [10.8.3.9.4, Step 10, FX-03 (a)]  | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A |
| 31. <b>24-hour emergency response telephone number</b> , including international prefix, if required by State or Operator variation. [2.8]   | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A |
| 32. <b>Name, date, and shipper's signature</b> (signature may be typewritten for U.S. domestic shipments, including U.S. territories). [10.8.3.13; 10.8.3.14; 10.8.3.15]   | <input type="checkbox"/> Y <input type="checkbox"/> N                              |
| 33. Shipper's same signature next to <b>amendments and alterations</b> (changes). [10.8.1.7]   | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A |

### ON THE PACKAGE

(Markings and labels correspond to shipper's declaration and must be durably affixed.) [10.7.1.1]

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| 34. <b>Number and type of packaging correspond to declaration (not including Overpack)</b> , large enough to support all markings, labels, documentation and none are placed on the bottom of the package. FedEx branded packaging (including brown boxes) not used. [FX-06] | <input type="checkbox"/> Y <input type="checkbox"/> N                              |
| 35. <b>Shipper and Consignee name and full address</b> marked on package. [10.7.1.3.1]   | <input type="checkbox"/> Y <input type="checkbox"/> N                              |
| 36. <b>UN number</b> preceded by prefix "UN" and <b>meets size requirements.</b> [10.7.1.2.4.1; 10.7.1.3.1]  | <input type="checkbox"/> Y <input type="checkbox"/> N                              |
| 37. <b>Proper Shipping Name.</b> [10.7.1.3.1]  | <input type="checkbox"/> Y <input type="checkbox"/> N                              |
| 38. <b>Type A:</b> Marked with Type A, VRI code of origin country, and name of package certifier (may be Shipper). USA Type A package requires marking of USA DOT 7A Type A. [10.7.1.3.4]  | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A |



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39. **Type B:** Marked Type B (U or M as appropriate) and design approval number and symbol (e.g. USA/9999/B(U)-96 Type B). [10.7.1.3.5] ☐ Y ☐ N ☐ N/A
40. **Type IP:** Marked Type IP (e.g., Type IP-1, Type IP-2, Type IP-3 as appropriate), VRI code of origin country, and name of package certifier (may be Shipper). [10.7.1.3.3] ☐ Y ☐ N ☐ N/A
41. **For packages that exceed 50 kg (110 lb), the gross weight (in metric units) must be marked on package, unless overpacked.** [10.7.1.3.1] ☐ Y ☐ N ☐ N/A
42. **Two correct radioactive labels** on opposite sides. [10.7.3.1; 10.7.4.3.1] ☐ Y ☐ N
43. Content/radionuclide, activity, and TI on radioactive label corresponds to shipper's declaration, as required. [10.7.3.3] ☐ Y ☐ N
44. **Two subsidiary hazard labels**, affixed adjacent to primary hazard labels. [10.7.4.2.3; 10.7.4.3.1] ☐ Y ☐ N ☐ N/A
45. **Two Cargo Aircraft Only labels** on opposite sides and near hazard labels on same surface of package. [10.7.4.2.4; 10.7.4.3.1] ☐ Y ☐ N ☐ N/A
46. **One set of labels** must be located on the same side of the package near the Proper Shipping Name marking when package dimensions are adequate. [10.7.4.2.1] ☐ Y ☐ N ☐ N/A
47. **Markings and label(s)** meeting IATA specifications, correctly applied (not obscured or covering required markings, not folded or wrapped on more than one face of package); irrelevant or contradictory markings/labels removed or obliterated. [10.7.1.1; 10.7.4.1.3] ☐ Y ☐ N

### OVERPACKS

☐ N/A

48. **"Overpack Used"** on declaration. [10.8.3.9.2, Step 8] ☐ Y ☐ N
49. **"Overpack"** appears on the package if all markings and labels are not visible. [10.7.1.4.1] ☐ Y ☐ N
50. **Multiple Overpacks:** Unique identification mark on both declaration and each overpack. (Tracking number may be used.) [10.7.1.4.3] ☐ Y ☐ N ☐ N/A

### FISSILE RADIONUCLIDES:

(U-233, U-235, Pu-239, OR Pu-241)

### FISSILE EXCEPTED

☐ N/A

51. **"Fissile Excepted"** on declaration. If yes, select N/A for Fissile Material section and skip 53-58. [10.8.3.9.4] ☐ Y ☐ N

### FISSILE MATERIAL (If not Fissile Excepted)

☐ N/A

52. The following UN numbers are prohibited when the contents include Plutonium 239 (Pu 239) or Plutonium 241 (Pu 241): UN 3324, UN 3325, UN 3326, UN 3327, UN 3328, UN 3329, UN 3330, UN 3331 or UN 3333. [FX-03 (a)] ☐ Y ☐ N ☐ N/A
53. **Fissile Material in Proper Shipping Name** other than fissile excepted: Criticality Safety Index on declaration. [10.8.3.9.3, Step 9 (d)] ☐ Y ☐ N ☐ N/A
54. **Package design approval** and **country approval certificate number** on declaration and copies of documents attached. [10.8.3.9.4; 10.10.2.1.5] ☐ Y ☐ N

55. **FedEx Legal/Radiation Physicist approval** document(s) attached. [FX-03 (c)] ☐ Y ☐ N
56. **Two completed Criticality Safety Index labels** and **two radioactive category labels** (i.e. I White, II Yellow, or III Yellow) on opposite sides. [10.7.4.3.1] ☐ Y ☐ N ☐ N/A
57. **Identification mark** contains type code "AF", "B(U)F", B(M)F", "CF", or "IF". [10.7.1.3.7] ☐ Y ☐ N ☐ N/A

### PACKAGES CONTAINING DRY ICE

☐ N/A

58. Dry Ice markings, labelings, and documentation requirements met. [PI 954; 7.1.4.1 (d); 8.2.4] ☐ Y ☐ N

### GENERAL

59. **023 air waybill** (IP1, IXF, ATA): Correct statements, as appropriate, in Handling Information box. [10.8.8.1] ☐ Y ☐ N ☐ N/A
60. Complies with all other applicable **State and Operator variations**. [2.8] ☐ Y ☐ N
61. **"RQ"** is indicated before or after basic description on declaration (e.g. **RQ**, UN 2915, Radioactive Material, Type A Package, 7 or UN 2915, Radioactive Material Type A Package, 7, **RQ**) when marked on the package. **"RQ"** is marked on package when on declaration. [USG-04] ☐ Y ☐ N ☐ N/A
62. Shipment complies with **special provisions**. [4.2, column M] ☐ Y ☐ N ☐ N/A

If there are any discrepancies indicated, your shipment cannot be transported by FedEx Express. In the U.S., this shipment is returned to the Shipper using DOT-SP 14691. In the U.S., call 1.800.GoFedEx and press "81" then "4" for assistance. For non-U.S. locations, please contact your local Customer Service representative.

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☐ ACCEPTED ☐ REJECTED

Inspected By \_\_\_\_\_

Employee # \_\_\_\_\_

Shipper Contact Name \_\_\_\_\_

Shipper Contact Phone # \_\_\_\_\_