



NORTHERN AIR CARGO®

Radioactive Shipments

Tips for Understanding a Radioactive Shipment



DISCLAIMER:

This information is only a guideline for properly trained dangerous goods shippers as required by PHMSA in 49CFR §172.700 – §172.704. It is provided as a courtesy only and is for informational/reference purposes only and is subject to continually changing regulatory requirements. Therefore, the information shown may not reflect current governmental requirements and these materials are not to be considered, or used, for training or regulatory compliance in any form whatsoever. It is the responsibility of the user of this material to comply with all federal regulations. Please refer to the appropriate governmental publications for conformance with the hazardous materials regulations. Northern Air Cargo, LLC shall not be held responsible for any omissions, errors, or loss arising from the use of this material regardless of its application or use. 2023

Understanding a Radioactive Shipment

First, we will be using the RADIOACTIVE CHECKSHEET for this document covering the shipper's declaration.

The first page of the checklist is for the DOCUMENT (*shown below*) and is what we will be using along with the numbers listed here to point out areas on the document you need to verify. Page two is for the package which we will visit later

RADIOACTIVE DANGEROUS GOODS CHECKLIST
Begin with IATA Chapter 10

PAGE 1 of 2

AWB: _____

DOCUMENTATION

1. Two copies in English and in the IATA format including the air certification statement [10.8.1.2; 10.8.1.4, 8.1.1 and 10.8.3.12.2]?
2. Is the air waybill number entered?
3. The Shipper & Consignee name and address [10.8.3.1; 10.8.3.2]
4. The shipper certification and air statement noted [10.8.3.12]
5. Is the Page of Pages completed (e.g. 1 of 1 or 1 of 2 & 2 of 2)? [10.8.3.4]
6. Has the non-applicable aircraft type been deleted? [10.8.3.5]
7. Is the Airport or City of Departure or Destination correct? (modify if necessary)
8. Has the Non-Radioactive shipment type been deleted? [10.8.3.8]

IDENTIFICATION

9. Is the following information shown correctly and in proper sequence?
 - a. UN Number, preceded by prefix "UN" [10.8.3.9.1, Step 1]
 - b. Proper Shipping Name [10.8.3.9.1, Step 2]
 - c. Class 7 [10.8.3.9.1, Step 3]
 - d. Subsidiary Risk, in parentheses, immediately following Class [10.8.3.9.1, Step 4]
 - e. Packing Group if required for Sub Risk [10.8.3.9.1, Step 5]
 - f. If "RC" applies, 49CFR 172.101 app A table2, listed before or after basic description

QUANTITY AND TYPE OF PACKAGING

10. Name or Symbol of Radionuclide(s) [10.8.3.9.2, Step 6 (a)]
11. A description of the physical and chemical form if in other form [10.8.3.9.2, Step 6 (b)]
12. "Special Form" (not required for UN 3332 or UN 3333) or low dispersible material [10.8.3.9.2, Step 6 (b)]
13. The number and type of packages and the activity in Becquerel or multiples thereof in each package. For Fissile Material the total weight in grams or kilograms of fissile material may be shown in place of activity [10.8.3.9.2, Step 7]
14. For different radionuclides, the activity of each radionuclide and the words "All packed in one" [10.8.3.9.2, Step 7]
15. Words "Overpack Used" shown on the DGD [10.8.3.9.2, Step 8]

PACKING INSTRUCTIONS

16. Category of package(s) or overpack [10.8.3.9.3, Step 9 and Table 10.5.C] (e.g. YELLOW III)
17. Transport Index and dimensions (Length x Width x Height) for Category II and Category III only [10.8.3.9.3, Step 9]
18. For Fissile Material the "Criticality Safety Index or the words "Fissile Excepted" [10.8.3.9.3, Step 9]

AUTHORIZATIONS

19. If relevant, ID marks shown and a copy of the document in English attached to DGD for the following [10.8.3.9.4, Step 10; 10.5.7.2.2]:
 - Special Form approval certificate
 - Low dispersible material approval certificate
 - Type B package design approval certificate
 - Other approval certificates as required
20. Passenger aircraft authorization statement noted (medical use only) USG-10
21. Additional handling information [10.8.3.11]
22. Is the 24 hour emergency telephone number entered when applicable? 172.504(d) [10.8.3.13; 10.8.3.14; 10.8.3.15]
24. Amendment or alteration signed by Shipper [10.8.1.7]
25. Is the ICAO drill code (ERG) number entered? NAC requirement only and if not present, enter it now

SHIPPER'S DECLARATION FOR DANGEROUS GOODS

Shipper: **Harmat Class** 123 Main St Anytown US 00000

Consignee: **Harmat Redux** 987 Other St Othertown US 00000

Air Waybill No.: 000-0000-0000

Page 1 of 1 Pages Shippers Reference Number (optional)

Transport Details: Aircraft: **737** (CARGO AIRCRAFT ONLY)

Airport of Departure: **Anchorage, AK**

Airport of Destination: **Honolulu, HI**

Shipment type: **7** (RADIOACTIVE)

UN or ID No.	Proper Shipping Name	Class or Division	Subsidiary Risk	Packing Group	Quantity and type of packaging	Packing Int.	Authorisation/ ERG
7	Radioactive material Type (RU) Package				Indium 113 Special Form 1 Type B(U) package X 1090.0 g/m	II	USA/700/100-70 Type B Certificate

Additional Handling Information: **DRILL CODE 7L**

24 hr. Emergency Contact Telephone No.: **1-800-000-0000**

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. I declare that all of the applicable air transport requirements have been met.

Name/Title of Signatory: **JOHN DOE / Shipper**
Place and Date: **Anchorage Aug 05, 2016**
Signature: **John Doe**

RADIOACTIVE DANGEROUS GOODS CHECKLIST
Begin with IATA Chapter 10

PAGE 2 of 2

AWB: _____

PACKAGE(S) AND OVERPACK(S)

26. Does the number of packages or overpacks agree with number of items offered for inspection?
27. Does the type of package correspond with the type shown on the declaration?
28. Unbroken transportation seal [10.6.2.4.1.2] and package in proper condition for carriage [9.1.3; 9.1.4]

MARKINGS

29. The UN Number [10.7.1.3.1]
30. The Proper Shipping Name [10.7.1.3.1]
31. The full Name and Address of the Shipper and Consignee [10.7.1.3.1]
32. The permissible gross weight if it exceeds 50 kg [10.7.1.3.1]
33. Type A packages, marked as per 10.7.1.3.4
34. Type B packages, marked as per 10.7.1.3.5
35. Type C packages, Industrial Packages and packages containing Fissile material marked as per 10.7.1.3.6, 10.7.1.3.3 or 10.7.1.3.7
36. If "RC" is present on the declaration, is it shown on the package?

LABELING

37. Two correctly completed Radioactive Hazard labels on opposite sides [10.7.3.3; 10.7.4.3.1]
38. Applicable label(s) identifying the Subsidiary [10.7.3.2; 10.7.4.3]
39. Two Cargo Aircraft Only labels, if required, on the same surface near the Hazard labels [10.7.4.2.4; 10.7.4.3.1; 10.7.4.4.1]
40. For fissile materials, two correctly completed Criticality Safety Index (CSI) labels on the same surface as the hazard labels [10.7.3.3.4; 10.7.4.3.1]
41. All displayed labels correctly located, affixed, and irrelevant marks and labels removed or obliterated [10.7.1.1; 10.7.2.1; 10.7.4]

OVERPACKS

42. Packaging markings as required must be clearly visible or reproduced on the outside of the overpack [10.7.1.4.1]
43. If more than one overpack is used, identification marks shown [10.7.1.4.2]
44. Hazard labels reflect total for overpack [10.7.3.4]

GENERAL

45. State and Operator variations complied with [2.8]
46. Cargo Aircraft Only shipments, a cargo aircraft operates on all sectors
47. Packages containing Carbon dioxide solid (dry ice), the marking, labeling and documentary requirements complied with [Packing Instruction 954; 7.1.5.1 (d); 7.2.3.9]

AWB: _____

Placed on opposite side

To be placed on opposite sides with hazard class labels

Inspected by: _____ Date: _____ Station: _____

Using the RADIOACTIVE CHECKLIST for this portion (*next page*) covering the shipper’s declaration.

The left side of the checklist is for the DOCUMENT (*shown below*) and is what we will be using along with the numbers listed here correspond to the areas of the document you need to verify.

DOCUMENTATION			
	YES	NO	N/A
1. Two copies in English and in the IATA format including the air certification statement [10.8.1.2; 10.8.1.4, 8.1.1 and 10.8.3.12.2]?	<input type="checkbox"/>	<input type="checkbox"/>	
2. Is the air waybill number entered?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. The Shipper & Consignee name and address [10.8.3.1; 10.8.3.2]	<input type="checkbox"/>	<input type="checkbox"/>	
4. The shipper certification and air statement noted [10.8.3.12].....	<input type="checkbox"/>	<input type="checkbox"/>	
5. Is the Page of Pages completed (e.g. 1 of 1 or 1 of 2 & 2 of 2)? [10.8.3.4].....	<input type="checkbox"/>	<input type="checkbox"/>	
6. Has the non-applicable aircraft type been deleted? [10.8.3.5].....	<input type="checkbox"/>	<input type="checkbox"/>	
7. Is the Airport or City of Departure or Destination correct? (modify if necessary)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Has the Non-Radioactive shipment type been deleted? [10.8.3.8]	<input type="checkbox"/>	<input type="checkbox"/>	
IDENTIFICATION			
9. Is the following information shown correctly and in proper sequence?			
a. UN Number, preceded by prefix “UN” [10.8.3.9.1, Step 1]	<input type="checkbox"/>	<input type="checkbox"/>	
b. Proper Shipping Name [10.8.3.9.1, Step 2].....	<input type="checkbox"/>	<input type="checkbox"/>	
c. Class 7 [10.8.3.9.1, Step 3]	<input type="checkbox"/>	<input type="checkbox"/>	
d. Subsidiary Risk, in parentheses, immediately following Class [10.8.3.9.1, Step 4].....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Packing Group if required for Sub Risk [10.8.3.9.1, Step 5].....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. If “RQ” applies, 49CFR 172.101 app A table2 , listed before or after basic description....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
QUANTITY AND TYPE OF PACKAGING			
10. Name or Symbol of Radionuclide(s) [10.8.3.9.2, Step 6 (a)]	<input type="checkbox"/>	<input type="checkbox"/>	
11. A description of the physical and chemical form if in other form [10.8.3.9.2, Step 6 (b)]....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. “Special Form” (not required for UN 3332 or UN 3333) or low dispersible material [10.8.3.9.2, Step 6 (b)]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. The number and type of packages and the activity in Becquerel or multiples thereof in each package. For Fissile Material the total weight in grams or kilograms of fissile material may be shown in place of activity [10.8.3.9.2, Step 7]	<input type="checkbox"/>	<input type="checkbox"/>	
14. For different radionuclides, the activity of each radionuclide and the words “All packed in one” [10.8.3.9.2, Step 7]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Words “Overpack Used” shown on the DGD [10.8.3.9.2, Step 8].....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PACKING INSTRUCTIONS			
16. Category of package(s) or overpack [10.8.3.9.3, Step 9 and Table 10.5.C] (e.g. YELLOW III)....	<input type="checkbox"/>	<input type="checkbox"/>	
17. Transport Index and dimensions (Length x Width x Height) for Category II and Category III only [10.8.3.9.3, Step 9]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. For Fissile Material the Criticality Safety Index or the words “Fissile Excepted” [10.8.3.9.3, Step 9]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AUTHORIZATIONS			
19. If relevant, ID marks shown and a copy of the document in English attached to DGD for the following [10.8.3.9.4, Step 10; 10.5.7.2.2]:			
– Special Form approval certificate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
– Low dispersible material approval certificate	<input type="checkbox"/>	<input type="checkbox"/>	
– Type B package design approval certificate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
– Other approval certificates as required	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Passenger aircraft authorization statement noted (medical use only) USG-10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Additional handling information [10.8.3.11]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Is the 24 hour emergency telephone number entered when applicable? 172.604(d).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23. Is the name, place and date shown and the document signed legibly? [10.8.3.13; 10.8.3.14; 10.8.3.15]	<input type="checkbox"/>	<input type="checkbox"/>	
24. Amendment or alteration signed by Shipper [10.8.1.7]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25. Is the ICAO drill code (ERG) number entered? NAC requirement only and if not present, enter it now	<input type="checkbox"/>		

Understanding a Radioactive Shipment

SHIPPER'S DECLARATION FOR DANGEROUS GOODS

Shipper Hazmat Class 123 Main St Anytown US 00000	Air Waybill No. 000-0000-0000 Page 1 of 1 Pages Shippers Reference Number <i>(optional)</i>
Consignee Hazmat Redux 987 Other St Othertown US 00000	

Two completed and signed copies of this declaration must be handed to the operator

WARNING

Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.

TRANSPORT DETAILS

This shipment is within the limitations prescribed for: <i>(delete non-applicable)</i>	Airport of Departure: <div style="text-align: center; border: 1px solid black; padding: 5px;">Anchorage, AK</div>
<div style="border: 1px solid black; padding: 2px; width: fit-content; margin: auto;"> CARGO AIRCRAFT ONLY </div>	
Airport of Destination: Honolulu, HI	

Shipment type: *(delete non-applicable)*

RADIOACTIVE

NATURE AND QUANTITY OF DANGEROUS GOODS

Dangerous Goods Identification							
UN Or ID NO.	Proper Shipping Name	Class or Division	Subsidiary Risk	Packing Group	Quantity and type of packaging	Packing Inst.	Author-ization/ ERG#
RQ UN 2916	Radioactive material Type B(U) Package	7			Iridium-192 Special Form 1 Type B(U) package X 1050.0 GBq OVERPACK USED	II Yellow T.I. 0.2 Dim 50cm x 50cm x 50 cm	USA/9296/ B(U)-96 Type B Certification USA/0335/S Special Form Certification

Additional Handling Information **DRILL CODE 7L**

24 Hr. Emergency Contact Telephone No. 1-800-000-0000

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. I declare that all of the applicable air transport requirements have been met.

Name/Title of Signatory **JOHN DOE / Shipper**
 Place and Date **Anchorage Aug 05, 2023**
 Signature *John Doe*
(See warning above)

Understanding a Radioactive Shipment

SHIPPER'S DECLARATION FOR DANGEROUS GOODS	
Shipper Hazmat Class 123 Main St Anytown US 00000	Air Waybill No. 000-0000-0000 Page 1 of 1 Pages Shippers Reference Number (optional)
Consignee Hazmat Redux 987 Other St Othertown US 00000	
<i>Two completed and signed copies of this declaration must be handed to the operator</i>	WARNING Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.
TRANSPORT DETAILS	
This shipment is within the limitations prescribed for: <i>(delete non-applicable)</i>	Airport of Departure: Anchorage, AK
<input checked="" type="checkbox"/> CARGO AIRCRAFT ONLY	
Airport of Destination: Honolulu, HI	Shipment type: <i>(delete non-applicable)</i> <input checked="" type="checkbox"/> RADIOACTIVE
NATURE AND QUANTITY OF DANGEROUS GOODS	

EXAMPLE

- 2 Air Waybill Number:**
 May or may not be present at time of acceptance. Is not a problem if not shown, one will be assigned. Note an N/A option on checklist.
- 3 Shipper:**
 Enter full name and address of the shipper

3 Consignee:
 Enter full name and address of the recipient
- 5 Page of pages**
 The current page number and the total number of pages.
(e.g. Page 1 of 2 Pages & Page 2 of 2 Pages if more than one page)
- 8 Shipment Type:**
 Delete "NON-RADIOACTIVE" for shipments that contain radioactive material *(as shown)*.
- 6 Transport Details:**
 Delete "Passenger and Cargo Aircraft" *(for shipments which must travel on Cargo Aircraft Only) as shown.*

6 Delete "Cargo Aircraft Only" *(for shipments which may travel on either Passenger or Cargo aircraft) – (must be for use in or incident to research, medical diagnosis, or treatment).*
- 7 Airport of Departure:**
 Full name of the airport or city of departure.

7 Airport of Destination:
 Full name of the airport or city of destination.

Understanding a Radioactive Shipment

UN Or ID NO.	Proper Shipping Name	Class or Division	Subsidiary Risk	Packing Group	Quantity and type of packaging	Packing Inst.	Authorization/ ERG#
RQ UN 2916	Radioactive material Type B(U) Package	7			Iridium-192 Special Form 1 Type B(U) package X 1050.0 GBq OVERPACK USED	II Yellow T.I. 0.2 Dim 50cm x 50cm x 50 cm	USA/9296/ B(U)-96 Type B Certification USA/0335/S Special Form Certification

EXAMPLE

- 9a UN or ID Number:** List the identification number assigned to the radioactive proper shipping name. These numbers are preceded by "UN."
- 9b Proper Shipping Name:** Radioactive description designated as a Dangerous Good. Spelling must be as shown in the Dangerous Goods table.
- 9c Hazard Class:** List the designation of the radioactive hazard class corresponding to each proper shipping name.
- 9d Subsidiary Risk:** Additional label codes are indicating a subsidiary hazard.
- 9e Packing Group:** Packing groups assigned to a material corresponding to the proper shipping name and hazard class of the material. *See IATA figure 10.8.E*
- 9f RQ – Reportable Quantity:** Acronym used for a hazardous substance. Shipper must place on document if it meets the requirement.
- 10 Name and/or Symbol of Radionuclide(s):** Block to include radionuclide (*Example above Iridium-192*) or "IR-192"
- 11 Description of Form:** Description of the physical and chemical form of the material (solid, gas, liquid or special form). Sometimes the form is noted in the proper shipping name. A generic chemical description is acceptable for chemical form.
- 12 Number, type of packages and activity:** Example above – (1 type B(U) & 1050.0 GBq). Activity will be noted in MBq or GBq or TBq.
- 13 All Packed in One:** If more than one radioactive type is packed in the same package, it must be noted on the shipper's declaration as "All packed in one."
- 14 OVERPACK:** If shipment is overpacked, "OVERPACK" must be noted on the shipper's declaration. Multiples must be identified.
- 15 Category**
- 16** Locate on the shipper's declaration the category (*Example above II-Yellow*)
- 17 Transport Index and Dimensions**
- 18** Locate on the shipper's declaration the transport index (*Example above T.I. 0.2*) and dimensions (*Example above 50cm x 50cm x 50cm*).
- 19 Fissile Shipments:** Material capable of fission. A fissile shipment (U or Pu) will be noted with the PSN and may have a "Criticality Safety Index" or "Fissile Excepted." Approval certificates are
- 19 Authorization(s):** Supplemental information for the shipment and will include; (*Example above* certifications), special permits, competent authorities and other approvals.

Understanding a Radioactive Shipment

Additional Handling Information DRILL CODE 7L 25	
21	24 Hr. Emergency Contact Telephone No. <u>1-800-000-0000</u> 22
I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked, labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. I declare that all of the applicable air transport requirements have been met. 4	Name/Title of Signatory JOHN DOE / Shipper
	Place and Date Anchorage Aug 05, 2023 23
	Signature <i>John Doe</i> <small>(See warning above)</small>

EXAMPLE

21

Additional Handling Information:

Where any special handling information that is relevant to the shipment will be listed here.

For radioactive materials covered by a Competent Authority (CA) it will include:

- Any special stowage provisions;
- A Type B(M) package that no special controls are required;
- Any restrictions on the type of aircraft and routing instructions;
- Emergency arrangements appropriate for the shipment.

22

24 Hour Emergency Contact

Telephone Number – If a dangerous good is being offered, a telephone number must be provided in the event of an emergency involving the dangerous good. This number must include area code or the international access code.

Name and Title of Signatory – Enter legibly the name and title of the person signing the Shipper’s Declaration.

Place and Date:

The place and date is entered to indicate where and when the document is signed.

Sign the document - A typewritten signature is permissible under 49CFR but must be handwritten/facsimile under IATA.

23

Emergency Response Drill Code:

This is also a common area we will place our company specific Emergency ICAO Drill Code (*example above DRILL CODE 7L*).

25

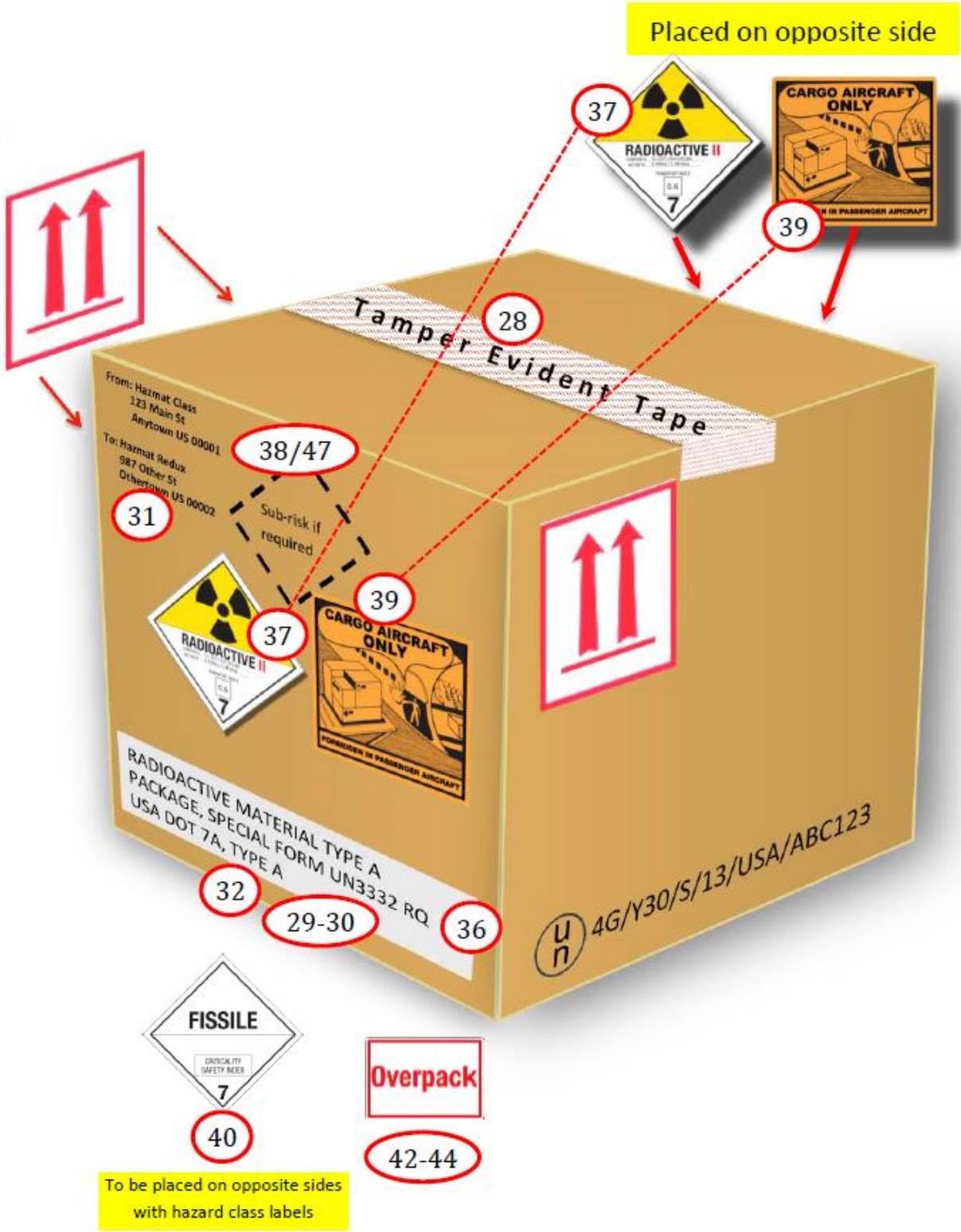
Page 2 of 2

We'll be using the RADIOACTIVE CHECKLIST again for page two of this document covering packaging, marking and labeling.

The left side of the checklist is for the Package (*shown below*) and is what we will be using along with the numbers listed here to point out areas on the shipment you need to verify.

<u>PACKAGE(S) AND OVERPACK(S)</u>		YES	NO	N/A
26. Does the number of packages or overpacks agree with number of items offered for inspection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27. Does the type of package correspond with the type shown on the declaration?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28. Unbroken transportation seal [10.6.2.4.1.2] and package in proper condition for carriage [9.1.3; 9.1.4].....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MARKINGS				
29. The UN Number [10.7.1.3.1]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30. The Proper Shipping Name [10.7.1.3.1]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31. The full Name and Address of the Shipper and Consignee [10.7.1.3.1]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32. The permissible gross weight if it exceeds 50 kg [10.7.1.3.1]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33. Type A packages, marked as per 10.7.1.3.4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34. Type B packages, marked as per 10.7.1.3.5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35. Type C packages, Industrial Packages and packages containing Fissile material marked as per 10.7.1.3.6, 10.7.1.3.3 or 10.7.1.3.7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36. If "RQ" is present on the declaration, is it shown on the package?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LABELING				
37. Two correctly completed Radioactive Hazard labels on opposite sides [10.7.3.3; 10.7.4.3.1].....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38. Applicable label(s) identifying the Subsidiary [10.7.3.2; 10.7.4.3]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
39. Two Cargo Aircraft Only labels, if required, on the same surface near the Hazard labels [10.7.4.2.4; 10.7.4.3.1; 10.7.4.4.1]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40. For fissile materials, two correctly completed Criticality Safety Index (CSI) labels on the same surface as the hazard labels [10.7.3.3.4; 10.7.4.3.1]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
41. All displayed labels correctly located, affixed, and irrelevant marks and labels removed or obliterated [10.7.1.1; 10.7.2.1; 10.7.4]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OVERPACKS				
42. Packaging markings as required must be clearly visible or reproduced on the outside of the overpack [10.7.1.4.1]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
43. If more than one overpack is used, identification marks shown [10.7.1.4.2]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
44. Hazard labels reflect total for overpack [10.7.3.4]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GENERAL				
45. State and Operator variations complied with [2.8]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
46. Cargo Aircraft Only shipments, a cargo aircraft operates on all sectors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
47. Packages containing Carbon dioxide solid (dry ice), the marking, labeling and documentary requirements complied with [Packing Instruction 954; 7.1.5.1 (d); 7.2.3.9]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Understanding a Radioactive Shipment



28 **Transportation Seal:**

May be tamper evident tape (TET), a lead and wire crush seal or even a padlock with TET.

29 **UN Number:**

Ensure the same UN number on the shipper's declaration is placed onto the package.

30 **Proper Shipping Name:**

Ensure the same proper shipping name on the shipper's declaration is placed into the package.

31 **Name and Address:**

Full name and address of the shipper and consignee.

32 **Permissible Gross Weight:**

When a radioactive shipment weights more than 50kg (110 lbs.) gross, the weight must be noted on the outside of the package.

33 **Package Type:**

Particular package type noted on the shipper's declaration agrees with the package type marked on the package being offered.

34

35

36 **RQ (Reportable Quantity):**

If "RQ" is noted on the shipper's declaration, must be on the package next to the proper shipping name.

37

Hazard Class Label (Radioactive):

Two radioactive labels are required on the package. One must be placed on the same side with the markings noted previously and the other placed on the opposite side of the package (*see example*).

38

Subsidiary Class Label:

If noted on the shipper's declaration, a subsidiary class label must be placed onto the package next to the markings and hazard class label. Only one is required.

39

Cargo Aircraft Only Label:

Two Cargo Aircraft Only labels are required when applicable. One must be placed on the same side with the markings noted previously and the second label placed on the opposite side of the package (*see example*).

40

Fissile Materials:

Fissile materials will be noted on the shipper's declaration as well as the package. If present, verify the appropriate label (known as a Criticality Safety Index (CSI)) is present on both sides of the package next to the hazard class labels.

41

Labels Display:

Make sure all labels are correctly displayed and irrelevant, old marks/labels have been removed.

42

43

44

Overpacks:

Ensure when an overpack is offered; all markings and labels are present on the outside of the overpack.

If more than one overpack is used, there must be marks indicating each overpack (e.g. **1A**, **1B**).

44

State and Operator Variations:

Governmental and/or airline restrictions on a radioactive shipment found in **IATA 2.8**.

45

Cargo Aircraft Only – All Sectors:

When a cargo aircraft only radioactive shipment is offered, make sure cargo aircraft service all destinations.

46

Carbon Dioxide with Radioactive:

Make sure the marking, labeling and documentation requirements have been satisfied.