



RECORD OF RADIOACTIVE MATERIAL RECEIPTS AND SHIPMENTS

Receipt Shipment

Mode of transportation _____ Carrier _____

Originator or Destination _____

Address _____

Identification number _____ Proper shipping name and Hazard class _____

Description of item _____

Quantity by weight or volume _____ Number and type of containers _____

Description of item(s) physical form _____ Chemical form _____

Radionuclides _____ Activity _____ Bq

Surface Contamination *Results _____ net cpm/100 cm² above background

Instrument type & # _____ Due calibration _____

** _____ mrem/hr on contact with package **T.I. = _____ mrem/hr at 1m from package surface

**LSA exclusive use _____ mrem/hr Contact with Trailer ** _____ mrem/hr 2m from Trailer

Instrument type & # _____ Due calibration _____

DOT labels attached White I Yellow II Yellow III Radioactive LSA Empty N/A

Package properly marked? Yes No N/A Vehicle placarded? Yes No N/A

Package examined and found intact? Yes No N/A

Security seal attached? Yes No N/A Type and/or Serial # _____

Proper shipping papers? Yes No N/A

Written exclusive use instructions given to driver? Yes No N/A

DOT violations noted and 49 CFR reference # _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Signature _____ (Shipment) Date _____

Received By _____ (Receipt) Date _____

Completed Form Reviewed By _____ Date _____

* Enter results in net counts per minute above background. If counts are background enter "0".

** Enter dose rates in mrem/hr above background. If dose rate is background enter "0".

DOSE RATE LIMITS

LABEL	AT ANY POINT ON ACCESSIBLE SURFACE OF PACKAGE	AT ONE METER FROM EXTERNAL SURFACE OF PACKAGE (TRANSPORT INDEX)
Radioactive-White I*	0.005 mSv/hr - 0.5 mrem/hr	N/A
Radioactive-Yellow II	0.05 mSv/hr - 50 mrem/hr	0.01 mSv/hr - 1 mrem/hr
Radioactive-Yellow III**	2 mSv/hr - 200 mrem/hr	0.1 mSv/hr - 10 mrem/hr

*Same Dose Rates Apply for Excepted Packages of Radioactive Material

**Vehicle Placarding Required

Proper Shipping Names

UN2908 Radioactive material, excepted package-empty packaging.	7
UN2910 Radioactive material, excepted package-limited quantity of material.	7
UN2911 Radioactive material, excepted package-instruments <i>or</i> articles.	7
UN2912 Radioactive material, low specific activity (LSA I) <i>non-fissile or fissile excepted.</i>	7
UN3321 Radioactive material, low specific activity (LSA II) <i>non-fissile or fissile excepted.</i>	7
UN2915 Radioactive material, Type A package <i>non-special form, non-fissile or fissile excepted.</i>	7
UN3332 Radioactive material, Type A package, special form <i>non fissile or fissile excepted.</i>	7

Table of A₁ and A₂ Values for Radionuclides

Symbol of Radionuclide	A ₁ (TBq)	A ₁ (Ci)	A ₂ (TBq)	A ₂ (Ci)
Am-241	1.0 x 10 ¹	2.7 x 10 ²	1.0 x 10 ⁻³	2.7 x 10 ⁻²
Be-7	2.0 x 10 ¹	5.4 x 10 ²	2.0 x 10 ¹	5.4 x 10 ²
Co-60	4.0 x 10 ⁻¹	1.1 x 10 ¹	4.0 x 10 ⁻¹	1.1 x 10 ¹
Cs-137	2.0	5.4 x 10 ¹	6.0 x 10 ⁻¹	1.6 x 10 ¹
Fe-55	4.0 x 10 ¹	1.1 x 10 ³	4.0 x 10 ¹	1.1 x 10 ³
Mn-54	1.0	2.7 x 10 ¹	1.0	2.7 x 10 ¹
Na-22	5.0 x 10 ⁻¹	1.4 x 10 ¹	5.0 x 10 ⁻¹	1.4 x 10 ¹
Ru-106	2.0 x 10 ⁻¹	5.4	2.0 x 10 ⁻¹	5.4
Sr-90	3.0 x 10 ⁻¹	8.1	3.0 x 10 ⁻¹	8.1
Zn-65	2.0	5.4 x 10 ¹	2.0	5.4 x 10 ¹