



Certificate

CDN/E193/96 (Rev. 4)

Endorsement of Transport Package Design

No. **USA/9282/B(U)-96 (Rev. 5)**

The transport package design identified below is certified by the Canadian Nuclear Safety Commission pursuant to paragraph 21(1)(h) of the *Nuclear Safety and Control Act* and Subsection 10(1) of the *Packaging and Transport of Nuclear Substances Regulations*, 2015 and to the IAEA's *Regulations for the Safe Transport of Radioactive Material*, 2012 Edition.

REGISTRATION OF USE OF PACKAGES

All users of this authorization shall register their identity in writing with the Canadian Nuclear Safety Commission prior to the first use of this authorization and shall certify that they possess the instructions necessary for preparation of the package for shipment.

PACKAGE IDENTIFICATION

Designer: **Source Production & Equipment Co., Inc.**

Make/Model: **SPEC-300 Radiography Camera**

Mode of Transport: **Air, Sea, Road, Rail**

IDENTIFICATION MARK

The package shall bear the competent authority identification mark "**USA/9282/B(U)-96**".

PACKAGE DESCRIPTION

The packaging, as further described in Foreign Certificate No. USA/9282/B(U)-96 (Rev. 5), consists of a source assembly, depleted uranium shield and a stainless steel enclosure. The radioactive source assembly is housed in a zircalloy or titanium "S" tube that is surrounded by a depleted uranium shield and is secured within the stainless steel enclosure. The void space between the depleted uranium shield and the enclosure is filled with high-density polyurethane foam. The depleted uranium shield has a maximum mass of 238 kg and a spherical diameter of 250 mm.



The configuration of the package is as follows:

Shape:	Box	Shielding:	Depleted Uranium
Mass:	354 kg	Outer Casing:	n/a
Length:	660 mm	Height:	419 mm
Width:	356 mm	Diameter:	n/a

AUTHORIZED RADIOACTIVE CONTENTS

This package is authorized to contain not more than 11.1 TBq (300 Ci) of cobalt-60 output activity* within the sealed source model G-70, certified as special form radioactive material, as shown on SPEC Drawing No. 19B002, (Rev. 1).

* Output activity in curies is determined in accordance with American National Standard N432-1980, "Radiological Safety for the Design and Construction of Apparatus for Gamma Radiography".

QUALITY ASSURANCE

Quality assurance for the design, manufacture, testing, documentation, use, maintenance and inspection of the package shall be in accordance with:

- Foreign Certificate No. USA/9282/B(U)-96 (Rev. 5)
- Packaging and Transport of Nuclear Substances Regulations, 2015
- IAEA Regulations for the Safe Transport of Radioactive Material, 2012 Edition

SHIPMENT

The preparation for shipment of the package shall be in accordance with:

- Foreign Certificate No. USA/9282/B(U)-96 (Rev. 5)
- Packaging and Transport of Nuclear Substances Regulations, 2015
- IAEA Regulations for the Safe Transport of Radioactive Material, 2012 Edition

This certificate is valid only in Canada.

K. Owen-Whitred
Designated Officer pursuant to paragraph 37(2)(a)
of the Nuclear Safety and Control Act



NOTES

Foreign Certificate No. USA/9282/B(U)-96 (Rev. 5) attached.

Revision 3: April 30, 2015. Certificate revised to incorporate Revision 4 of USDOT certificate.

Revision 4: April 16, 2020. Certificate revised to incorporate Revision 5 of USDOT certificate.

