



| | | | |
|--|----------------------------------|-----------------------------------|---------------------------------|
| Canadian Certificate No. CDN/E044/-96 (Rev.15) | Issue Date Oct-18-2006 | Expiry Date Oct-31-2011 | CNSC File 30-10-2-117 |
|--|----------------------------------|-----------------------------------|---------------------------------|

Certificate
for
Endorsement of Transport Package Design
No. USA/9036/B(U)-96(Rev.14)

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 Section 7 of the *Packaging and Transport of Nuclear Substances Regulations*, and to the 1996 Edition (Revised) of the *IAEA Regulations for the Safe Transport of Radioactive Material*.

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 and Equipment Co. Inc.**
Make/Model : **C-1 Source Changer [Nordion F-365]**
Mode of Transport : **Air, Sea, Road, Rail**

IDENTIFICATION MARK

The package shall bear the competent authority identification mark **USA/9036/B(U)-96**.

PACKAGE DESCRIPTION

The packaging as shown on attached Drawing Nos. B322000, (Rev. 3); B311000, (Rev. 2); B311001, (Rev. 1) and B311002, (Rev. 0) consists of a rectangular box of 3 mm thick steel with dimensions 190 mm wide by 190 mm deep by 230 mm high and polyurethane foam filled drum overpack. The inner receptacle consists of a uranium shield equipped with two closed bottom Zircaloy "J" tubes, each of which may house one "pigtail" type special form source.

The configuration of the package is as follows:

| | |
|--------------------|------------------------------------|
| Shape: Drum | Shielding: Depleted Uranium |
| Mass: 45 kg | Outer Casing: Steel |
| Length: n/a | Height: 521 mm |
| Width: n/a | Diameter: 368 mm |



| | | | |
|--|----------------------------------|-----------------------------------|---------------------------------|
| Canadian Certificate No. CDN/E044/-96 (Rev.15) | Issue Date Oct-18-2006 | Expiry Date Oct-31-2011 | CNSC File 30-10-2-117 |
|--|----------------------------------|-----------------------------------|---------------------------------|

AUTHORIZED RADIOACTIVE CONTENTS

This package is authorized to contain not more than two sealed source assemblies with a combined activity of not more than 11.1 TBq (300 Ci) of Iridium-192; Selenium-75 or Ytterbium-169; contained in the pigtail source assembly models listed below:

SPEC Model C-1 [Nordion F-365]; Nordion Source Models C-169, C-175, C-192, C-245, C-259, XC-266, C-337A, C-340A, C-343A, C-359A, C-376; Amersham Models 93100, 93200; AEA Technology source Model 969; and SPEC source Model Nos. B-16F, B-16T, G-1T, G-1F, G-3F, G-40F, G-40T, G-60, T-5, T-5F.

QUALITY ASSURANCE

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

- Certificate No. USA/9036/B(U)-96, (Rev. 14)
- Canadian Packaging and Transport of Nuclear Substances Regulations
- IAEA Regulations

SHIPMENT

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

- Certificate No. USA/9036/B(U)-96, (Rev. 14)
- Canadian Packaging and Transport of Nuclear Substances Regulations
- IAEA Regulations

The box shall be secured within the foam filled overpack to prevent shifting during normal conditions of transport.



| | | | |
|--|----------------------------------|-----------------------------------|---------------------------------|
| Canadian Certificate No. CDN/E044/-96 (Rev.15) | Issue Date Oct-18-2006 | Expiry Date Oct-31-2011 | CNSC File 30-10-2-117 |
|--|----------------------------------|-----------------------------------|---------------------------------|

This certificate is valid only in Canada.

S. Faille
Designated Officer pursuant to paragraph 37(2)(a)
of the Nuclear Safety and Control Act