



Australian Government

Australian Maritime Safety Authority

AP.5054

## AUSTRALIAN MARITIME SAFETY AUTHORITY

### CERTIFICATE OF APPROVAL OF PACKAGE DESIGN FOR TRANSPORT OF RADIOACTIVE MATERIAL

#### VALIDATION OF UNITED STATES COMPETENT AUTHORITY CERTIFICATE USA/9329/AF-96, Revision. 1

This is to certify that the radioactive materials package design described below and in U.S. Department of Transportation Competent Authority Approval Certificate for packages with identification mark USA/9329/AF-96, is hereby approved for transport from Australia of Special Form Capsules containing fissile material, as described below, by sea.

#### Competent Authority Identification Mark

As per original approval: USA/9329/AF-96.

#### Validity of Approval:

This certificate is only valid for packages approved under US Department of Transportation Certificate USA/9329/AF-96, Revision 1 issued on the 1<sup>st</sup> of June 2007. This approval cannot be extended to any other package or package combination by analogy.

**Date of Issue -** 05<sup>th</sup> of December 2008

**Expiry Date -** This certificate expires on the **30<sup>th</sup> of February 2011**, unless:

- i. the U.S. Department of Transportation Certificate of Approval USA/9329/AF-96, Revision 1; and/or
- ii. This certificate, is revised, suspended, cancelled or revoked before this date. Where the U.S. Department of Transportation Certificate of Approval is replaced by a new revision this approval may still be used for up to 6 months subject to specific agreement from AMSA.

**Limitations on Use:**

AMSA is the competent Authority for sea transport in Australia under the IMDG code as adopted by Marine Orders Part 41 (issue 8). This validation is only issued in respect of sea transport from Australia.

**References:**

- Regulations for the Safe Transport of Radioactive Materials, TS-R-1 (2005 edition) issued by the International Atomic Energy Agency
- International Maritime Dangerous Goods (IMDG) Code (2008 edition) published by the International Maritime Organisation
- Safety of Live at Sea Convention (SOLAS) 1974, as amended, Chapter VII, Regulation 3.
- The Australian *Navigation Act 1912*.
- Australian Code of Practice, Safe Transport of Radioactive Materials, Radiation Protection Series No 2 (2008 edition) published by ARPANSA.
- Marine Orders Part 41 (issue 8) issued by the Australian Maritime Safety Authority

**Package Identification:**

Type AF-96 Package with Manufacturer's Model No. S300.

**Packaging Description:**

As described in the U.S NRC Certificate of Compliance number USA/9329/AF-96, Revision 1 (docket number 71-9329) and approved by US Department of Transportation Certificate USA/9329/AF-96, Revision 1. In addition the following information on that certificate is to be noted:

**Authorised Radioactive Contents:**

- The package is approved for the carriage of Special Form Capsules approved under US Department of Transportation Certificate USA/0696/S-96, Revision 3 issued on the 8<sup>th</sup> of November 2007.
- The Special Form Capsule will contain Plutonium-239;Beryllium radionuclide with a maximum activity of 3.7 TBq in solid form.
- The Special Form Capsule and its use will comply with the special conditions and quality assurance requirements of US Department of Transportation Certificate USA/0696/S-96, Revision 3.

**Criticality:**

- The minimum Criticality Safety Index (CSI) is 0. There is no restriction on the number of packages per conveyance.

**General Conditions:**

- a. This certificate does not relieve any consignor, or carrier, from compliance with any requirement of the Government of any country through or into which the package will be transported.
- b. The package shall comply in all respects with the US Department of Transportation Approval USA/9329/AF-96, Revision 1 issued on the 1<sup>st</sup> of June 2007 and associated sections of the NRC Certificate of compliance.
- c. The package shall be maintained in good condition in accordance with the manufacturer's instructions.
- d. Shipments shall be in accordance with the applicable provisions of the current issue of Marine Orders Part 41 (Dangerous Cargoes), as amended. In addition the consignor shall submit a Transport Plan to the Australian Radiation Protection and Nuclear Safety Agency for approval prior to the shipment.
- e. In the event of an emergency during sea transport the procedures set out in section 7.3.4 in chapter 7.3 of the IMDG Code shall apply.
- f. In the event of any change in:
  - i. the authorised radioactive contents other than those specified in this certificate; and/or
  - ii. the design or arrangement of the package; and/or
  - iii. the facts stated in the application for validation,then this certificate will cease to have effect unless the Competent Authority is notified of the alteration and the Competent Authority confirms the certificate remains valid.

This certificate is issued by the Australian Maritime Safety Authority (AMSA) in accordance with the relevant requirements of the IMDG code as adopted by issue 8 of Marine Orders Part 41 (Dangerous Cargoes) as the Competent Authority for the transport of radioactive material by sea, to and from Australia. It also notes the requirements of the IAEA Regulations for the Safe Transport of Radioactive Material, Safety Standards Series No. TS-R-1 (2005 Edition).

This certificate is issued in response to the application of, and information submitted by, the Australian Nuclear Science and Technology Organisation (ANSTO) and NAC International, Atlanta, USA.



Allan Schwartz  
Manager, Ship Inspection Group  
Maritime Operations



Official Stamp

File No: 038923

Date: 5<sup>th</sup> of December 2008