

**CERTIFICATE OF COMPLIANCE  
FOR RADIOACTIVE MATERIAL PACKAGES**

1. a. CERTIFICATE NUMBER	b. REVISION NUMBER	c. DOCKET NUMBER	d. PACKAGE IDENTIFICATION NUMBER	PAGE	PAGES
6347	10	71-6347	USA/6347/AF	1	OF 2

## 2. PREAMBLE

- a. This certificate is issued to certify that the package (packaging and contents) described in Item 5 below meets the applicable safety standards set forth in Title 10, Code of Federal Regulations, Part 71, "Packaging and Transportation of Radioactive Material."
- b. This certificate does not relieve the consignor from compliance with any requirement of the regulations of the U.S. Department of Transportation or other applicable regulatory agencies, including the government of any country through or into which the package will be transported.

## 3. THIS CERTIFICATE IS ISSUED ON THE BASIS OF A SAFETY ANALYSIS REPORT OF THE PACKAGE DESIGN OR APPLICATION

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| <p>a. ISSUED TO (<i>Name and Address</i>)</p> <p>General Atomics<br/>P.O. Box 85608<br/>3550 General Atomics Court<br/>San Diego, CA 92186</p> | <p>b. TITLE AND IDENTIFICATION OF REPORT OR APPLICATION</p> <p>General Atomics Company Application dated<br/>February 19, 1982, as supplemented.</p> |
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## 4. CONDITIONS

This certificate is conditional upon fulfilling the requirements of 10 CFR Part 71, as applicable, and the conditions specified below.

## 5.

## (a) Packaging

(1) Model No.: FSV-3

(2) Description

Inner container is a 18.5" ID x 34" high, 18-gage steel drum. Inner container is centered and supported in a 22.5" ID x 38.25" high, 16-gage steel drum. Void spaces between the inner and outer container and within the inner container are filled with vermiculite. Total weight, including contents, is 500 pounds.

(3) Drawing

The packaging is constructed in accordance with General Atomics Company Drawing No. FFE-613, Issue D.

## (b) Contents

(1) Type and form of material

Unirradiated fuel element consisting of a graphite body, hexagonal in transverse cross-section, approximately 14.2" across the flats and 31.2" high. Dispersed in columns within the fuel element body there is a maximum 1.41 kg U-235 plus U-238 and Th-232. The U-235: U-238: Th-232 atomic ratio is about 1:0.07:8.3. The atomic ratio of carbon to the U-235 is in the range of 1800 to 1.

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## 5.(b) (2) Maximum quantity of material per package

One fuel element containing not more than 1.41 kg U-235 and weighing not more than 320 pounds. Total quantity of radioactive material within a package may not exceed a Type A quantity.

## (c) Transport Index for Criticality Control (Criticality Safety Index)

Minimum transport index to be shown  
on label for nuclear criticality control: 1.3

## 6. In addition to the requirements of Subpart G of 10 CFR Part 71:

- (i) The package must be operated and prepared for shipment in accordance with the operating procedures of Chapter 6 of the application.
- (ii) Each packaging must meet the Acceptance Tests and Maintenance Program of Chapter 7 of the application.

## 7. The package authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR §71.12.

## 8. Expiration date: September 30, 2007.

REFERENCE

General Atomics Company application dated February 19, 1982.

Supplements dated: March 9, 1982; February 24, 1992; February 28, 1997; and April 30, 2002.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

/RA/

E. William Brach, Director  
Spent Fuel Project Office  
Office of Nuclear Material Safety  
and Safeguards

Date: September 20, 2002