

**CERTIFICATE OF COMPLIANCE
FOR RADIOACTIVE MATERIAL PACKAGES**

| a. CERTIFICATE NUMBER | b. REVISION NUMBER | c. DOCKET NUMBER | d. PACKAGE IDENTIFICATION NUMBER | PAGE | PAGES |
|-----------------------|--------------------|------------------|----------------------------------|------|-------|
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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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| a. ISSUED TO (<i>Name and Address</i>) Source Production and Equipment Company, Inc. 113 Teal Street St. Rose, LA 70087 | b. TITLE AND IDENTIFICATION OF REPORT OR APPLICATION Source Production and Equipment Company, Inc. application dated February 14, 2011, as supplemented. |
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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.: SPEC-150
- (2) Description

A welded titanium encased, uranium shielded, radiographic exposure device. Primary components consist of an outer titanium shell, internal supports, depleted uranium shield, and a titanium, titanium alloy or zircalloy S-tube. The contents are securely positioned in the S-tube by a source cable lock assembly and source safety plug assembly. The unit resembles a rectangular box approximately 5.4 inches wide, 5.6 inches high and 14.5 inches long. The maximum weight of the package is 53.5 pounds.

- (3) Drawings

The packaging is constructed and assembled in accordance with Source Production and Equipment Company, Inc. Drawing Nos. 15B000, Rev. 10; 15B001-3, Rev. 3; 15B002-A, Rev. 9; 15B008, Rev. 7; 19B005, Rev. 3; 19B006, Rev. 3; and 190909, Rev. 0.

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(b) Contents

(1) Type and form of material

Iridium-192, Selenium-75, and Ytterbium-169 as encapsulated sealed sources meeting the requirements of special form radioactive material.

(2) Maximum quantity of material per package

5.55 TBq (150 Ci) (output)

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

6. The source shall be secured in the shielded position of the packaging by the source assembly lock cap and safety plug assembly. The safety plug assembly, lock cap and source assembly used must be fabricated of materials capable of resisting a 1475 degrees Fahrenheit fire environment for one-half hour and maintaining their positioning function. The locking ball of the source assembly must engage the locking device. The flexible cable of the source assembly and safety plug assembly must be of sufficient length and diameter to provide positive positioning of the source in the shielded position.

7. The nameplates shall be fabricated of materials capable of resisting the fire test of 10 CFR Part 71 and maintaining their legibility.

Packagings must be marked with Package Identification Number USA/9263/B(U)-96.

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

(a) The package shall be prepared for shipment and operated in accordance with the Operating Procedures in Section 7, of the application, as supplemented, and

(b) Each packaging must meet the Acceptance Tests and Maintenance Program in Section 8, of the application, as supplemented.

(c) The packaging will be fabricated and inspected in accordance with the 2007 or later edition of the ASME Code, Section VIII, Division 1. Alternatively, the 2007 or later edition of the AWS D1.9 Welding Code may be used for fabrication and inspection. Regardless of which construction code is used, any single package must be entirely fabricated and inspected in accordance with only a single edition of the referenced construction code. No mixing of codes or editions is permitted for a single package.

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9. The packaging authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR 71.17.
10. Revision No. 8 of the certificate may be used until June 30, 2015.
11. Expiration date: June 30, 2020.

REFERENCES

Source Production and Equipment Company, Inc., application dated February 14, 2011.
Supplements dated February 18, 2011, and January 19, 2015.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION



Michele Sampson, Chief
Spent Fuel Licensing Branch
Division of Spent Fuel Management
Office of Nuclear Material Safety
and Safeguards

Date: February 25, 2015



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION REPORT

Docket No. 71-9263
Model No. SPEC-150
Certificate of Compliance No. 9263
Revision No. 9

SUMMARY

By application dated January 19, 2015, Source Production and Equipment Company, Inc., requested renewal of Certificate of Compliance No. 9263 for the Model No. SPEC-150 shipping package. Source Production and Equipment Company, Inc., did not request any changes to the package design or authorized contents. The certificate has been renewed for a five year term.

CONCLUSION

By application dated January 19, 2015, Source Production and Equipment Company, Inc., requested renewal of Certificate of Compliance No. 9263 for the Model No. SPEC-150 shipping package. Source Production and Equipment Company, Inc., did not request any changes to the package design or authorized contents. The staff reviewed the documents referenced in the certificate and determined that the documentation was available and complete. The staff also reviewed the operating and maintenance procedures for the package and found them to be adequate. The certificate of compliance is revised to update the revision number, remove unnecessary change bars, and make editorial changes.

The certificate has been renewed for a five year term that expires on June 30, 2020. This change does not affect the ability of the package to meet the requirements of 10 CFR Part 71.

Issued with Certificate of Compliance No. 9263, Revision No. 9, on February 25, 2015.