

**CERTIFICATE OF COMPLIANCE  
FOR RADIOACTIVE MATERIAL PACKAGES**

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2. PREAMBLE

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- 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

- a. ISSUED TO (*Name and Address*)  
AREVA Federal Services LLC  
1102 Broadway Plaza, Suite 300  
Tacoma, WA 98402-3526
- b. TITLE AND IDENTIFICATION OF REPORT OR APPLICATION  
VECTRA Technologies, Inc., application dated  
July 21, 1994, as supplemented.

4. CONDITIONS

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

5.



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(a) Packaging

(1) Model No.: N-55

(2) Description

A low carbon steel overpack filled with rigid polyurethane foam. The containment vessel is a 55-gallon steel drum. The overpack is a right circular cylinder 48 inches high by 32 inches diameter with a 34-1/2-inch high by 24-inch diameter cavity. The 18 or 20-gauge galvanized steel shell is filled with 3-pound per cubic foot rigid polyurethane foam. The inner shell is molded fiberglass. Closure of the upper and lower (lid and body) sections of the overpack is provided by four toggle clamps, and a neoprene gasket at the stepped joint between the two sections. Four lugs are provided for lifting. The steel drum is minimum 18-gauge steel with a minimum 14-gauge lid and a gasket. Closure of the drum is by way of a 12-gauge locking ring with dropped forged lugs and a 5/8-inch diameter bolt and lock nut. The package gross weight is approximately 750 pounds.

(3) Drawing

The packaging is constructed in accordance with Nuclear Packaging, Incorporated Drawing No. X-60-200D, Rev. C, or X-60-200D-SP, Rev. J.



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(b) Contents

(1) Type and form of material

- (a) Radioactive material in the form of dewatered, solid or solidified materials meeting the requirements of low specific activity material, contained in steel drums.
- (b) Radioactive material meeting the requirements of special form radioactive material, contained in steel drums.
- (c) Radioactive material in the form of solid metal pieces or activated solid metal components, contained in steel drums.

(2) Maximum quantity of material per package



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Greater than Type A quantities of radioactive material. Fissile material contents not to exceed the generally licensed mass limits as specified in 10 CFR 71.15. Plutonium in excess of 20 curies per package must be in the form of metal, metal alloy or reactor fuel elements, or must meet the requirements of special form radioactive material. Internal decay heat not to exceed 3 watts.

6. The maximum weight of contents, including drum, not to exceed 550 pounds.
7. The steel drum must be in accordance with Appendix 1.3.2 of the supplement dated October 20, 1994.
8. The drum must be securely positioned in the overpack.
9. Contents must be securely positioned so that protrusions will not puncture the drum under normal or accident conditions.
10. The lifting lugs must be rendered inoperable for tie-down during transport.
11. In addition to the requirements of Subpart G of 10 CFR Part 71:
  - (a) The package must meet the Acceptance Tests and Maintenance Program of Chapter 8.0 of the application; and
  - (b) The package shall be prepared for shipment and operated in accordance with the Operating Procedures in Chapter 7.0 of the application.
  - (c) Authorization by this certificate only applies to the N-55 package S/N PT-001, fabricated by Packaging Technology on January 21, 1999.
12. The packaging authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR 71.17.
13. **Revision** No. 17 of this certificate may be used until December 31, 2008.
14. **Expiration** date: January 31, 2010.

REFERENCES

VECTRA Technologies, Incorporated, application dated July 21, 1994.  
Supplements dated: August 22 and October 20, 1994; and February 6, 1998.  
Transnuclear, Inc., supplement dated February 5, 1998, and December 3, 1999.

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Packaging Technology, Incorporated, letters dated April 11, 2000, December 17, 2004, and November 26, 2007.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

**/RA/**

Robert A. Nelson, Chief  
Licensing Branch  
Division of Spent Fuel Transportation and Storage  
Office of Nuclear Material Safety  
and Safeguards

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