NRC FORM 618 U.S. NUCLEAR REGULATORY COMMISSION									
CERTIFICATE OF COMPLIANCE FOR RADIOACTIVE MATERIAL PACKAGES									
1.	a. CERTIFICATE NUMBER 9251	b. REVISION NUMBER	c. DOCKET NUMBER 71-9251	d. PACKAGE IDENTIFICATION NUMBER	PAGE 1	OF	PAGES 3		
2.	PREAMBLE								
	a. This certificate is issued to certify set forth in Title 10, Code of Fede	that the package (pac eral Regulations, Part 7	kaging and contents 71, "Packaging and T	) described in Item 5 below meets the ransportation of Radioactive Materia	e applical I."	ble safe	ty standard		
	b. This certificate does not relieve or other applicable reg	the consignor from con ulatory agencies, inclu	mpliance with any red iding the government	quirement of the regulations of the U. of any country through or into which	S. Depar the pack	tment o age will	f Transport be transpo		
3.	THIS CERTIFICATE IS ISSUED ON THE BASIS OF A SAFETY ANALYSIS REPORT OF THE PACKAGE DESIGN OR APPLICATION								
a.	ISSUED TO <i>(Name and Address)</i> Framatome Inc. 2101 Horn Rapids Road Richland, WA 99354	ISSUED TO (Name and Address)b. TITLE AND IDENTIFICATION OF REPORT OR APPLICATIONFramatome Inc.AREVA NP, Inc., application dated2101 Horn Rapids RoadDecember 15, 2017.Richland, WA 99354AREVA NP, Inc., application dated				ION			
		EA	R REG	U7					
4.	CONDITIONS This certificate is conditional upon fulf	illing the requirements	of 10 CFR Part 71, a	s applicable, and the conditions spec	cified belo	ow.			
5.	S	S.		Pr Pr					

#### (a) Packaging

- (1) Model No.: BW-2901
- (2) Description

A shipping container for low-enriched uranium oxide powder and pellets, composed of an inner container, surrounded by insulating material, and an outer drum. The inner cross sectional dimensions of the inner container are a maximum 11.15-inch square by 29.5-inch long. The inner container is constructed of minimum 14-gauge steel, with bolted and gasketed top flange closure and welded bottom sheet. The inner container is centered and supported in an 18-gauge steel drum with 16-gauge head and DOT Specification 17H or an equivalent DOT UN1A2/Y1.5/100 closure by asbestos or ceramic sheet, plywood, hardboard, and insulating material. The drum is approximately 22-1/2 inches in diameter and either 34-1/4 inches or 35-1/2 inches in overall height. The drum lid is closed with a 12-gauge locking ring with drop forged lugs and a 5/8-inch diameter bolt. In addition to the locking ring, three lid clamps are installed to secure the drum lid. The uranium oxide is packaged in boxes, and wood boards position the boxes within the inner container. Three borated aluminum plates (approximately 25 inches by 9.25 inches by 0.375 inch) are positioned within the inner container. The maximum gross weight of the package is 660 pounds.

(3) Drawings

The packaging is constructed in accordance with B&W Fuel Company Drawing Nos. 1215597D, Rev. 5; 1215598B, Rev. 1; 1215599E, Rev. 5; and AREVA NP, Inc., Drawing No. 12155600, Rev. 7.

NRC FORM 618

(8-2000) 10 CFR 71

**U.S. NUCLEAR REGULATORY COMMISSION** 

# CERTIFICATE OF COMPLIANCE FOR RADIOACTIVE MATERIAL PACKAGES

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# 5. (b) Contents

- Type and form of material (1)
  - Sintered uranium oxide pellets enriched to a maximum 5.05 weight percent U-235. The (i) minimum pellet diameter is 0.315 inch, and the maximum pellet diameter is 0.400 inch.
  - Uranium dioxide as powder, pellets, or any combination thereof, enriched to a maximum (ii) 5.05 weight percent U-235.
- (2) Maximum quantity of material per package

370 pounds, with the U-235 content not to exceed 7.47 kg. The maximum weight of the uranium oxide, pellet boxes, and all packaging materials within the inner container is 427 pounds. Uranium oxide must be packaged in accordance with B&W Fuel Company Drawing Nos. 1215597D, Rev. 5, and AREVA NP, Inc., Drawing No. 1215600, Rev. 7. The maximum mass of polyethylene within the inner container shall not exceed 1000 grams per package. Maximum quantity of radioactive material within a package may not exceed a Type A quantity.

- 5. (c) Criticality Safety Index (CSI) 0.7
- 6. Each package must be shipped with borated aluminum plates positioned within the inner container, on the top of, between, and on the bottom of the rows of pellet boxes. The three borated plates must have dimensions and boron concentration, and must be positioned in accordance with B&W Fuel Company Drawing No. 1215597D, Rev. 5.
- For packages with fewer than six pellet boxes, solid aluminum or wood pellet box spacers must be 7. substituted for pellet boxes. The pellet boxes, pellet box spacers, borated plates, and wood boards must provide a snug axial and cross sectional fit in the inner container.
- 8. In addition to the requirements of Subpart G of 10 CFR Part 71:
  - (a) Each packaging must be maintained and acceptance tested in accordance with Chapter 8 of the application;
  - The package must be prepared for shipment and operated in accordance with the Operating (b) Procedures of Chapter 7 of the application; and
  - Prior to each shipment the insert (containment vessel) gasket shall be inspected. The gasket (C) shall be replaced if it is damaged, defective, or degraded.
- 9. Transport of fissile material by air is not authorized.

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- 10. The package authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR §71.17, provided that fabrication of the package was satisfactorily completed by April 1, 1999.
- 11. Expiration date: January 31, 2023.

#### **REFERENCES**

AREVA NP, Inc., application dated September 13, 2007.

AREVA NP, Inc., supplement dated December 6, 2012.

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- AREVA NP, Inc., supplement dated December 15, 2017
- Framatome Inc., name change request dated January 17, 2018.

John McKirgan, Chief Spent F el Licensing Branch

Spent F el Licensing Branch Division of Spent Fuel Management Office of Nuclear M terial Safety and Safeguards

Date: 3/1/18



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

#### SAFETY EVALUATION REPORT Docket No. 71-9251 Model No. BW-2901 Certificate of Compliance No. 9251 Revision No. 16

## **EVALUATION**

By letter dated January 17, 2018, AREVA Inc. (now known as Framatome Inc.) has requested a name change of ownership to Framatome Inc. for Certificate of Compliance No. 9251, for the Model No. BW-2901 transportation package. The certificate has been updated to Revision No. 16.

These changes do not affect the ability of the package to meet the requirements of Title 10 of the *Code of Federal Regulations* Part 71.

### CONDITIONS

The following changes have been made to the certificate of compliance:

The references section has been updated to include this name change request.

#### CONCLUSION

Based on the statements and representations in the renewal request, the staff finds that these changes do not affect the ability of the package to meet the requirements of Title 10 of the *Code of Federal Regulations* Part 71.

Issued with Certificate of Compliance No. 9251, Revision No. 16, on 03/01/18.