NRC FORM 618				U.S. NUCLEAR REG	GULATOR	Y COMN	NISSION
(8-2000) 10 CFR 71		CERTIFICA FOR RADIOACT					
1. a. CERTIFICATE NUMBER 9252		b. REVISION NUMBER	c. DOCKET NUMBER 71-9252	d. PACKAGE IDENTIFICATION NUMBER	PAGE 1	OF	PAGES 3
2. PREAMBLE							
a. This certificate forth in Title 10	is issued to cer , Code of Feder	tify that the package (p ral Regulations, Part 7	backaging and contents) 1, "Packaging and Trans	described in Item 5 below meets the sportation of Radioactive Material."	applicable	e safety s	standards set
b. This certificate	e does not relie other applicab	ve the consignor from le regulatory agencies	compliance with any rec , including the governme	uirement of the regulations of the U.s ent of any country through or into whic	S. Departn ch the pac	nent of T kage will	ransportation be transporte
3. THIS CERTIFICATE	E IS ISSUED OI	N THE BASIS OF A SA	AFETY ANALYSIS REP	ORT OF THE PACKAGE DESIGN O	R APPLIC	ATION	
a. ISSUED TO (N	ame and Addre	ess)	b. TITLE			LICATIO	N .
Framatome 2101 Horn Richland, V	e Inc. Rapids Roa VA 99354	ad,	ARE Octo	VA NP, Inc., consolidated a ber 28, 2008, as suppleme	applicat nted.	ion dai	ted
,		< 0	R REG	11.			
		CLER		1			
4. CONDITIONS	nditional upon f	ulfilling the requirement	nts of 10 CER Part 71 a	s applicable, and the conditions spec	ified below	1	
^{5.} (a) Packaging	C)			A L			
(1)	Model No	.: 51032-2	\mathbf{D}	0			
(2)	Descriptio	on and a second	(Kund				
	A steel sh clamping which are welded in 11 gauge the packa	hipping container assembly, shock 6" x 8" x 8-1/2" side, are bolted steel shell appro- ige, including co	for fuel bundles, c mounted to a ste long and have a 3 between fuel bun oximately 43" diar ntents, is 7,500 p	consisting of a strong-back sel outer container. Nine se 3/8" thick wall and a rectang dles. The outer container is neter by 216" long. The ma ounds.	and fue eparato gular gu s compo aximum	el bund r block isset p osed o i weigh	dle ks, late f an ht of
(3)	Drawings	*	* + + -	K			
	The pack NP Inc. D 02-12159 02-12159	aging is construc rawing Nos.: 02 31D-003; 02-12 [;] 35D-003; 02-12 [;]	cted and assemble -1215926C-002; 15932D-003; 02-1 16010D-001.	ed in accordance with the f 02-1215929D-003; 02-121 215933D-003; 02-1215934	ollowing 5930D-(1C-002;	g ARE\ 003;	VA

NRC FORM 618

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CERTIFICATE OF COMPLIANCE FOR RADIOACTIVE MATERIAL PACKAGES

1. a. CERTIFICATE NUMBER	b. REVISION NUMBER	c. DOCKET NUMBER	d. PACKAGE IDENTIFICATION NUMBER	PAGE		PAGES	
9252	10	71-9252	USA/9252/AF	2	OF	3	
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5.(b) Contents

(1) Type and form of material

Unirradiated fuel assemblies, composed of uranium dioxide fuel pellets clad in zircaloy tubes. The fuel assemblies have the following parameters:

Fuel Rod Array	15x15		17x1	16x16		
Assembly Type	1	2	1	2	CE 16	
	MkB HTP	Adv W HTP	Adv W HTP	MKC	Long	
Nominal Fuel Rod Pitch, in	0.568	0.563	0.496	0.502	0.506	
Number of Fuel Rods	208	204	264	264	236	
Maximum Enrichment, wt% 235U	4.8	4.8	4.8	4.8	5.0	
Maximum Pellet Density, %TD	97.5	97.5	97.5	97.5	97.5	
Minimum Pellet Outer Diameter, in	0.3693	0.3668	0.3218	0.3238	0.3245	
Minimum Clad Outer 🖉 Diameter, in	0.428	0.422	0.372	0.377	0.38	
Minimum Clad Wall Thickness, in	0.023	0.023	0.0205	0.022	0.0238	
Number of Guide Tubes	16	20	24	24	4	
Minimum Guide Tube Outer Diameter, in	0.528	0.542	0.478	0.472	-	
Minimum Guide Tube Wall Thickness, in	0.014	0.0145	0.013	0.02	-	
Number of Instrument Tubes	PTY		221	1	1	
Minimum Instrument Outer Diameter, in	0.491	0.542	0.478	0.472	-	
Minimum Instrument Wall Thickness, in	0.024	0.0145	0.013	0.02	-	
Clad/Tube Material Type	Zr Alloy	Zr Alloy	Zr Alloy	Zr Alloy	Zr Alloy	
Maximum Active Fuel Length, in	144	144	144	144	196	

(2) Maximum quantity of material per package

Two fuel assemblies. Total weight of fuel assemblies, including control rod assemblies, not to exceed 3300 pounds.

Maximum quantity of radioactive material within a package may not exceed a Type A quantity.

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U.S. NUCLEAR REGULATORY COMMISSION

CERTIFICATE OF COMPLIANCE

	THE MATERIAL PACKAGES							
1. a. CERTIFICATE NUMBER 9252	b. REVISION NUMBER	c. DOCKET NUMBER 71-9252	d. PACKAGE IDENTIFICATION NUMBER USA/9252/AF	PAGE 3	OF	PAGES 3		

6. Each fuel assembly must be unsheathed or must be enclosed in an unsealed polyethylene sheath which will not extend beyond the ends of the fuel assemblies. The ends of the sheaths must not be folded or taped in any manner that would prevent the flow of liquids into or out of the sheathed fuel assemblies.

- 7. Hydrogenous shims are not permitted within the fuel assemblies.
- 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 Chapter 7.0 of the application.
 - (b) Each packaging shall be maintained in accordance with Section 8.2 of the application.
 - (c) Each packaging shall meet the acceptance tests in Section 8.1 of the application.
- 9. The package authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR 71.17.
- 10. Transport by air of fissile material is not authorized.
- 11. Expiration date: January 31, 202

AREVA NP Inc. consolidated application dated October 28 2008

Supplement dated: November 4, 2008; July 7, 2009; September 19, and December 18, 2013; January 17, and August 7, 2018.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

John McKirgan, Chief Spent Fuel Licensing Branch Division of Spent Fuel Management Office of Nuclear Material Safety and Safeguards

Date: 1/31/19



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

SAFETY EVALUATION REPORT Docket No. 71-9252 Model No. 51032-2 Certificate of Compliance No. 9252 Revision No. 10

EVALUATION

By letter dated August 7, 2018, Framatome Inc. requested a renewal of Certificate of Compliance (CoC) No. 9252, for the Model No. 51032-2 transportation package. The certificate has been updated to Revision No. 10.

The change does 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:

Condition No. 11 was deleted since it expired.

Condition No. 12 was renamed as Condition No. 11, which now reflects a new expiration date of January 31, 2024.

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. 9252, Revision No. 10.