

East Building, PHH-23 1200 New Jersey Ave, SE Washington, D.C. 20590

U.S. Department of Transportation

COMPETENT AUTHORITY CERTIFICATION FOR A TYPE B(U) RADIOACTIVE MATERIALS PACKAGE DESIGN CERTIFICATE USA/9036/B(U)-96, REVISION 17

Pipeline and Hazardous Materials Safety Administration

The Competent Authority of the United States certifies that the radioactive material package design described in this certificate satisfies the regulatory requirements for a Type B(U) package as prescribed in the regulations of the International Atomic Energy Agency<sup>1</sup> and the United States of America<sup>2</sup> The package design is approved for use within the United States for import and export shipments made in accordance with applicable international and domestic transport regulations.

- 1. Package Identification C-1.
- <u>Package Description and Authorized Radioactive Contents</u> as described in U.S. Nuclear Regulatory Commission Certificate of Compliance No. 9036, Revision 14 (attached).
- 3. General Conditions
  - a. Each user of this certificate must have in his possession a copy of this certificate and all documents necessary to properly prepare the package for transportation. The user shall prepare the package for shipment in accordance with the documentation and applicable regulations.
  - b. Each user of this certificate, other than the original petitioner, shall register his identity in writing to the Office of Engineering and Research, (PHH-23), Pipeline and Hazardous Materials Safety Administration, U.S. Department of Transportation, Washington D.C. 20590-0001.

<sup>&</sup>lt;sup>1</sup> "Regulations for the Safe Transport of Radioactive Material, 2012 Edition, No. SSR-6" published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

<sup>&</sup>lt;sup>2</sup> Title 49, Code of Federal Regulations, Parts 100-199, United States of America.

## CERTIFICATE USA/9036/B(U)-96, REVISION 17

- c. This certificate does not relieve any consignor or carrier from compliance with any requirement of the Government of any country through or into which the package is to be transported.
- d. Records of Management System activities required by Paragraph 306 of the IAEA regulations<sup>1</sup> shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors in the United States exporting shipments under this certificate shall satisfy the applicable requirements of Subpart H of 10 CFR 71.
- Marking and Labeling The package shall bear the marking USA/9036/B(U)-96 in addition to other required markings and labeling.
- 5. <u>Expiration Date</u> This certificate expires on October 31, 2026. Previous editions which have not reached their expiration date may continue to be used.

This certificate is issued in accordance with paragraph(s) 810 of the IAEA Regulations and Section 173.471 of Title 49 of the Code of Federal Regulations, in response to the October 5, 2021 petition by Source Production and Equipment Company, Inc., St. Rose, LA, and in consideration of other information on file in this Office.

Certified By:

October 06, 2021 (DATE)

William Schoonover Associate Administrator for Hazardous Materials Safety

Revision 17 - Issued to endorse U.S. Nuclear Regulatory Commission Certificate of Compliance No. 9036, Revision 14.

NRC FORM 618 (8-2000) 10 CFR 71 CERTIFICATE OF COMPLIANCE FOR RADIOACTIVE MATERIAL PACKAGES								
			c. DOCKET NUMBER 71-9036	d. PACKAGE IDENTIFICATION NUMBER	PAGE 1	OF	PAGES 3	
2. PREAMBLE								
				described in Item 5 below meets the a portation of Radioactive Material."	applicable s	afety sta	andards sel	
				rement of the regulations of the U.S. [ / through or into which the package wi			sportation o	
3. THIS CERT	IFICATE IS ISSUED ON	I THE BASIS OF A SAI	FETY ANALYSIS REPO	ORT OF THE PACKAGE DESIGN OR	APPLICA	TION		
Equ	Equipment Company, Inc. application dated February 28, 2001, as suppleme							
	「eal Street ose, LA 70087-96	91	DEa					
	,	CLEAF	REGU	1/ .				
4. CONDITION	-							
This certifica	ate is conditional upon fu	Ifilling the requirements	s of 10 CFR Part 71, as	applicable, and the conditions specifi	ed below.			
5.	5	Se		2 °2				
(a) Packag	ing 📂	188	50 /	0				
(1)	Model No.: C-1		Kund 18	0				
(2)	Description			MILL M				
				an outer overpack. The inne				
	rectangular box approximately 9" high x 7.5" wide x 7.5" deep around a depleted uranium shield. All fittings and source locking components are protected and enclosed within the 1/8"							
	carbon steel outer shell. The inner receptacle consists of a uranium shield equipped v closed bottom Zircalloy or titanium "J" tubes, each of which may house one "pigtail typ						0	
	special form sour	ce. The overpac	k is a 12-gallon, 2	20- or 22-gage steel drum p bs. The weight of the over	artially f	illed		
		s. of ancillary eq	uipment may be i	included within the overpack		5 10		
(3)	Drawings							
		rawing Nos. B32		ource Production and Equip 311000, Rev. (2); B311001		1); anc	1	

NRC FORM 618 (8-2000)			U.S. NUCLEAR REGULATORY COMMISSION							
10 CFR 71				TE OF COMPL						
1. a. CEI	RTIFICATE		b. REVISION NUMBER	c. DOCKET NUMBER	d. PACKAGE IDENTIFICATION NUMBER	PAGE 2 OF	PAGES			
		9036	14	71-9036	USA/9036/B(U)-96	2 OF	3			
5.(b)	Conte	ents								
	(1)	Type and form of	material							
		Iridium-192, Sele of special form ra			aled sources that meet the	requirements	5			
	(2)	Maximum quantity of material per package								
		Two sealed sources with a combined activity not to exceed 300 curies (11.1 TBq) (output)								
		Output curies are determined by measuring the source output at 1 meter and expressing its activity in curies derived from the following: 0.48 R/(h-Ci) Iridium-192.								
6.		sten shield pads, w elded to the inside s			$\prime$ 2-inches diameter and $\prime_2$ - sing.	inch thick, m	ay			
7.		nameplate shall be t naintaining their leg		erials capable of r	resisting the fire test of 10 0	CFR Part 71				
8.	In ad	dition to the require	ments of Subpart	G of 10 CFR Pa	t 71:					
	(a)	The package sha Procedures of Se			perated in accordance with plemented; and	the Operating	g			
	(b)				be maintained in accordan ion, as supplemented.	ce with the				
9.		backaging authorize sions of 10 CFR 71		te is hereby appr	oved for use under the gen	eral license				
10.	Revis	Revision No. 13 of this certificate may be used until October 31, 2021.								
11.	Expir	ation date: Octobe	r 31, 2026.	***						

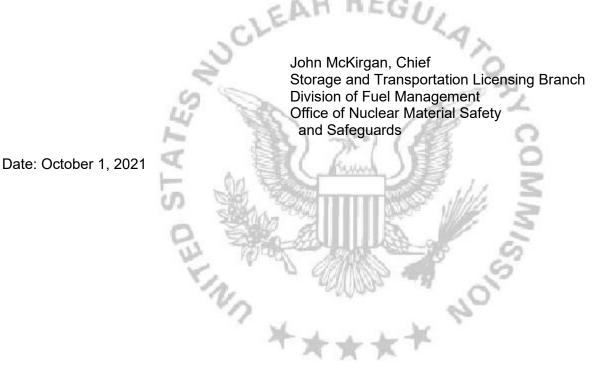
NRC FORM 618 (8-2000)	U.S. NUCLEAR REGULATORY COMMISSION							
10 CFR 71 CERTIFICATE OF COMPLIANCE FOR RADIOACTIVE MATERIAL PACKAGES								
1. a. CERTIFICATE NUMBER	b. REVISION NUMBER	c. DOCKET NUMBER	d. PACKAGE IDENTIFICATION NUMBER	PAGE		PAGES		
9036	14	71-9036	USA/9036/B(U)-96	3	OF	3		

## **REFERENCES**

Source Production and Equipment Company, Inc., applications dated September 27, 2000, and February 28, 2001.

Supplements dated: April 11, and May 11, 2001; May 1, June 14, and June 23, 2006; May 26, 2011; May 31, 2016; and September 28, 2021.

## FOR THE U.S. NUCLEAR REGULATORY COMMISSION



East Building, PHH-23 1200 New Jersey Ave, SE Washington, D.C. 20590



U.S. Department of Transportation

Pipeline and Hazardous Materials Safety Administration

CERTIFICATE NUMBER: USA/9036/B(U)-96

## ORIGINAL REGISTRANT(S):

QSA Global, Inc. 40 North Avenue Burlington, MA, 01803 USA

MDS Nordion 447 March Road Ottawa, Ontario, K2K 1X8 CANADA

Source Production and Equipment Company, Inc. 113 Teal Street St. Rose, LA, 70087 USA

Industrial Nuclear Company, Inc. 14320 Wicks Blvd. San Leandro, CA, 94577 USA

Global X-Ray & Testing Corporation P. O. Box 1536 Morgan City, LA, 70381 USA

Century Inspection, Inc. P.O. Box 59126 Dallas, TX, 75229-1126 USA

MISTRAS Holdings Group, CONAM Inspection & Engineering Services, Inc 899 Carol Court Carol Stream, IL, 60188 USA

Western Industrial X-Ray

1707 Enterprise Drive Unit J P.O. Box 238 Fairfield, CA, 94533 USA High Country Fabrication (HICO) 1000 West 1st Street Casper, WY, 82604 USA Best Medical Belgium SA Zoning Industriel Fleurus, Belgium, B-6220 Belgium POLATOM National Centre for Nuclear Research Radioisotope Centre Andrzej Solatn 7 Otwock, Poland, 05-400 Poland Isoflex Radioactive 108 Teal Street St. Rose, LA, 70087 USA XCEL NDT 2755 State Highway 322 Longview, TX, 75603 USA Metalogic Inspection Services 6529 Cunningham Rd Suite 2001 Houston, TX, 77041 United States