

### **DEPARTMENT OF THE ARMY**

#### HEADQUARTERS, U.S. ARMY 20TH CBRNE COMMAND (CHEMICAL, BIOLOGICAL, RADIOLOGICAL, NUCLEAR, EXPLOSIVES) 2400 21ST STREET ABERDEEN PROVING GROUND, MD 21010-5424

**AFCB-CS** 

8 April 2016

MEMORANDUM FOR Mr. Scott Wilson, Health Physicist, US Nuclear Regulatory Commission Region I, 2100 Renaissance Boulevard, Suite 100, King of Prussia, PA 19406-2713

SUBJECT: License No. 19-31127-01, Docket 03037133

### 1. References:

- a. Memorandum, NRC, 10 Feb 16, subject: Licensing Amendment Request to US Nuclear Regulatory Commission Materials License 19-31127-01, Docket No. 030-37133.
- b. Email from you, 31 Mar 16, subject: Request for Additional Information Regarding License Amendment; License No.: 19-31127-01; Docket No. 03037133; Control No. 590301.
- c. Telephone conversation between Mr. B. Scott Davidson, Risk Management, and you, 1 Apr 16, subject: Licensing Amendment Request to US Nuclear Regulatory Commission Materials License 19-31127-01, Docket No. 030-37133.
- 2. The following are our responses to your inquiries:
- a. **NRC:** Title 10 CFR 30.32(g), in part, states for byproduct material that you must provide the manufacturer and model number of the sources as registered in the sealed source or device registry. Several alternate forms of information can be provided as stated in the section of that regulation. The following sources could not be identified in the list: Americium-241 Model PHI-241(Note: There is a Model PHI-241 GFS); Amercium-241 DuPont Model No. NES-128S and Amersham Source No. 72658-1; Americium-241 no source model number given; and Radium-226, no source model number given. Please provide the manufacturer and model number for these sources as registered in the sealed source and device registry or provide the alternative information as stated in the associated sections of 10 CFR 30.32(g). Note that alpha emitting sources of less than 10 microcuries only need the manufacturer, model number, and amount of activity for the sources you possess.

**Response:** The information on items 6.L, 6.M, 6.N and 6.O was all we were able to obtain for the byproduct material requested. We are unable to provide manufacturer or model information for items 6.M, 6.N or 6.O. The information on the two Am-241 sources in item 6.L includes the model number (NES-128S) and physical description of

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the source for the nominal 6 uCi (DuPont) source, and product code, source number, drawing number and a statement of conformance to ISO for the design of the 11 uCi (Amersham) source. If this information is insufficient to support adding these sources to the license we withdraw the request for them.

Americium Model PHI-241 is shown on two Eckert & Ziegler Nominal Source Certificates and correspond to item 6.I currently on NRC Materials License 19-31127-01. Those certificates are attached.

b. **NRC:** There are multiple locations of use on the license. Please provide enough information for an inspector to located personnel who are in response for the material on site. Command name, general telephone number, and address within the complex.

## Response:

The following table provides the information requested:

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General Phone Number	Address within Complex
	2433 Dirk Drive
410-436-9259	Aberdeen Proving Ground
	(APG), MD
410-278-9371	Building 4118,
	APG, MD
	Bldg. 12931
253-967-9846	Joint Base Lewis-
	McChord, WA
	Bldg. 6111, National
760-380-2793	Training Center, Fort Irwin,
	CA
	7401 F Ave.
337-531-5502	Fort Polk, LA
	37th ST and BN Ave
254-285-5497	Bldg. 14024
	Fort Hood, TX
	410-278-9371 253-967-9846 760-380-2793 337-531-5502

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22D CM BN	915-744-3714	Bldg 20107 Kasserine
46th CM CO (TEU)	915-744-3713	Way, Fort Bliss, TX
US Army 83D CM BN	912-435-0699	1915 W 15th Street, Bldg
25th CM CO (TEU)	912-223-2626	3016
		Fort Stewart, GA
CARA-Rapid Remediation	870-540-2311	10020 Kabrich Circle
West (RRW)		Pine Bluff, AR
CARA-RRW	870-556-2010	CARA Operations
	870-540-2316	Bldg 5671 Stewart Road
		Redstone Arsenal, AL

3. The point of contact for this response is Mr. Scott Davidson, (410) 436-9643, email barry.s.davidson.civ@mail.mil.

FOR THE COMMANDER:

Enclosure

GERARD A. VAVRINA

Grand a Vac

Colonel, MS Chief of Staff



24937 Avenue Tibbitts Valencia, California 91355

Tei 661-309-1010 Fax 661-257-8303

# NOMINAL SOURCE CERTIFICATE

Customer: Battelle Energy Alliance

Purchase Order No.: 00152421

Model No.: PHI-241

Catalog No.: AM132010500U Capsule Type: A3201-3

Active Diameter: 0.21" (5.33 mm)

Cover: Stainless Steel

**Backing: Stainless Steel** 

Certificate Date: 22-Dec-14

Quantity: 1

SS&DR No.: CA0406S118S ISO/ANSI Classification: ANSI 77C66545

Special Form No.: USA/0515/S-96 Rev 3 Nuclide Half Life: 432.17 ± 0.66 years

Recommended Working Life: 15 years

Nuclide	Source No.	Activity	Radiation Output	Reference - Date
Am-241	M2-122	500 μCi (18.5 MBq)	Not Applicable	1-Jan-15

Impurities: None detected.

Leak Test Information is on Reverse Side:

- This document uses the numerical convention where 1.000 = 1 and 1,000 = 10<sup>3</sup>.

- Nuclear data were taken from IAEA-TECDOC-619, 1991.

- ANSI classification is equivalent to ISO2919.

Scott Mah

Name

Signature

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# NOMINAL SOURCE CERTIFICATE

Customer: Battelle Energy Alliance

Purchase Order No.: 00152421

Model No.: PHI-241

Catalog No.: AM13201/30100U

Capsule Type: A3201-3

Active Diameter: 0.21" (5.33 mm) Cover: Stainless Steel

Backing: Stainless Steel

Certificate Date: 05-Dec-14

Quantity: 1

SS&DR No.: CA0406S118S

ISO/ANSI Classification: ANSI 77C66545

Special Form No.: USA/0515/S-96 Rev 3 Nuclide Half Life: 432.17 ± 0.66 years

Recommended Working Life: 15 years

Nuclide	Source No.	Activity	Radiation Output	Reference Date
Am-241	M2-129	100 µCi (3.7 MBq)	Not Applicable	1-Jan-15

impurities: None detected.

Leak Test Information is on Reverse Side:

Remarks:

- This document uses the numerical convention where 1.000 = 1 and  $1.000 = 10^3$ .
- Nuclear data were taken from IAEA-TECDOC-619, 1991.
- ANSI classification is equivalent to ISO2919.

Matthew Dey	mille	170e14
Name	Signature	Date
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