

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF SEALED SOURCE

NO.: NR420S141U

DATE: May 02, 1963

PAGE 1 OF 2

SEALED SOURCE TYPE: Beta Gauge Source

MODEL: S-75

MANUFACTURER/DISTRIBUTOR: LFE Corporation
1601 Trapelo Rd.
Waltham, MA 02154

MANUFACTURER/DISTRIBUTOR:

ISOTOPE: Krypton-85

MAXIMUM ACTIVITY: 500 millicuries

LEAK TEST FREQUENCY:

PRINCIPAL USE: Beta Gauges

CUSTOM SOURCE: ☐ YES ☒ NO

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SEALED SOURCE TYPE: Beta Gauge Source

DESCRIPTION:

Consists of 500 millicuries of krypton-85 in gaseous form deposited in container as per procedures in specification sheet A 2213.g (see file). After gas has entered cavity through soft copper tube, it is severed forming cold welded joint prior to soft soldering.

Model S-75 source is firmly secured within Tracerlab Model DH-75 backscatter beta gauge by 3 screw-type fasteners.

Capable of withstanding 200 psi without leak or rupture.

LABELING:

Each source contains a warning plate as per Dwg. Nos. B-209648 & A-231357.

QUALITY ASSURANCE AND CONTROL:

All sources are helium leak tested before shipment to user.

ISSUING AGENCY:

U.S. Atomic Energy Commission

William R. Prendergast
LFE Industrial Systems Corporation
55 Green Street
Clinton, MA 01510

Dear Mr. Prendergast:

This letter is in reference to your letter dated August 6, 1991, which requested that we transfer the registration certificates listed in column 1 of Enclosure 1 to inactive status. The certificates have been transferred to inactive status as you have requested. Please note that transfer of the registration certificates to inactive status means the sources or devices included on the certificates may no longer be commercially distributed.

The registration numbers for the certificates have been changed. Enclosure 1 specifies the old registration number, the new registration number, and the model numbers. Please note that some old certificates have been combined into one new inactive certificate. In addition, two registration certificates have been deleted from the system since they were duplicates of other certificates.

Please review the registration certificates (copies enclosed) in their entirety and notify us immediately if there are any errors or omissions.

If you have any questions, please call me at (301) 415-7868 or Mr. Steven Baggett at (301) 415-7273.

Sincerely,

13/

John W. Lubinski, Mechanical Engineer
Sealed Source Safety Section
Source Containment and
Devices Branch
Division of Industrial and
Medical Nuclear Safety
Office of Nuclear Material Safety
And Safeguards

Enclosures: As stated

cc: S. Kimberley, LFDCB

Distribution:

SCDB r/f SSD-91-86 NE01
SSD Files listed in column 1 of enclosure 1 of this letter

DOCUMENT NAME: C:\FILES\SSDS\LFE\LFE.CMP

To receive a copy of this document, indicate in the box: "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

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|--------|--------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| OFFICE | SCDB | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| NAME | JLubinski/jl | | | | | | | | |
| DATE | 09/21/95 | | | | | | | | |

OFFICIAL RECORD COPY

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ENCLOSURE 1

| Old Reg. Number | New Reg. Number | Model Number(s) |
|-----------------|---|---|
| NR-420-D-101-U | NR-420-D-801-S | Keleket-Barnes Rotary |
| NR-420-D-102-U | NR-420-D-802-S | Keleket-Barnes Shperay |
| NR-420-D-103-U | NR-420-D-803-S | Keleket-Barnes Ceiling Mounted Unit |
| NR-420-S-104-S | NR-420-S-804-S | S-10 |
| NR-420-D-106-U | NR-420-D-805-S | Keleket-Barnes Flexaray |
| NR-420-S-107-U | NR-420-S-806-S | RXA, RXB, RXC, RXL, RXM, RXN |
| NR-420-D-108-U | NR-420-D-807-B | SCL-1D |
| NR-420-D-109-B | NR-420-D-808-B certificates were combined | BGL-7C |
| NR-420-D-110-G | | BGL-7 |
| NR-420-D-111-B | | BGL-1C |
| NR-420-D-112-B | NR-420-D-809-B | BGL-1 |
| NR-420-D-113-B | NR-420-D-810-B certificates were combined | SO-7D, SO-7E |
| NR-420-D-114-B | | SO-7A, SO-7B, SO-7C |
| NR-420-D-115-B | NR-420-D-811-B | SO-1A, SO-1B, SO-1C |
| NR-420-D-116-B | NR-420-D-812-B certificates were combined | SN-7D, SN-7E |
| NR-420-D-117-B | | SN-7A, SN-7B, SN-7C |
| NR-420-D-118-B | NR-420-D-813-B | SN-1A, SN-1B, SN-1C, SN-1D, SN-1E, SN-1F |
| NR-420-D-119-B | NR-420-D-814-B | SC-7D, SC-7E |
| NR-420-D-120-B | NR-420-D-815-B | SC-7A, SC-7B, SC-7C |
| NR-420-D-121-B | NR-420-D-816-B | SC-1A, SC-1B, SC-1C, SC-1D, SC-1E, SC-1F |
| NR-420-D-122-B | NR-420-D-817-B | SN-P7B |
| NR-420-D-124-B | NR-420-D-818-B | SCL-1A and SCL-1B |
| NR-420-D-125-G | NR-420-D-819-B | SN-P7A4 |
| NR-420-D-126-U | NR-420-D-820-B | HSB-76 and HSB-77 |
| NR-420-D-127-G | NR-420-D-821-G | HSB-76A and HSB-77A |

ENCLOSURE 1

| Old Reg. Number | New Reg. Number | Model Number(s) |
|-----------------|--|------------------------|
| NR-420-D-128-G | NR-420-D-822-G | BGL-7A |
| NR-420-D-132-G | NR-420-D-823-G | SNF-18 |
| NR-420-D-133-G | NR-420-D-824-G | SSL-3 |
| NR-420-S-137-U | NR-420-S-826-S | R-30, R-31 |
| NR-420-S-138-U | NR-420-S-827-S | CD-1 |
| NR-420-D-139-U | NR-420-D-828-S | SC-11 |
| NR-420-D-140-U | NR-420-D-829-B | DH-75 |
| NR-420-S-141-U | NR-420-S-830-S | S-75 |
| NR-420-D-142-U | NR-420-D-831-S | AX-4 |
| NR-420-D-143-U | NR-420-D-832-S | BG-107 |
| NR-420-D-144-U | NR-420-D-833-S | BG-105 |
| NR-420-D-145-U | NR-420-D-834-S | BG-7 |
| NR-420-D-146-U | NR-420-D-835-S | BG-5 |
| NR-420-D-147-U | NR-420-D-836-S | BG-2/5 |
| NR-420-D-151-B | deleted from system - same as old registration NR-420-D-117-B | |
| NR-420-D-152-U | NR-420-D-840-B | SC-9C |
| NR-420-S-154-U | NR-420-S-842-S | S-9 |
| NR-420-S-155-U | NR-420-S-843-S | R-58, R-59 |
| NR-420-S-156-U | NR-420-S-844-S | CS-15 |
| NR-420-S-157-U | NR-420-S-845-S | CD-15 |
| NR-420-S-158-U | deleted from system - same as old registration NR-420-S-156-U | |
| NR-420-D-159-U | NR-420-D-846-S | SC-11A |
| NR-420-D-160-U | NR-420-D-847-S | Clathrate Gas Detector |
| NR-420-S-163-U | NR-420-S-849-S | CD-11 |
| NR-420-D-164-B | NR-420-D-850-B | SN-P1B |

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF SEALED SOURCE

NO.: NR-420-S-830-S

DATE: September 28, 1995

PAGE 1 OF 3

SEALED SOURCE TYPE: Beta Gauge Source

MODEL: S-75

MANUFACTURER/DISTRIBUTOR:

LFE Industrial Systems Corporation
55 Green Street
Clinton, MA 01510

ISOTOPE:

Krypton-85

MAXIMUM ACTIVITY:

500 millicuries (18.5 GBq)

LEAK TEST FREQUENCY: Not Required

PRINCIPAL USE: (E) Beta Gauges

CUSTOM SOURCE: _____ YES _____ X _____ NO

95-2260197 01

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF SEALED SOURCE

NO.: NR-420-S-830-S

DATE: September 28, 1995

PAGE 2 OF 3

SEALED SOURCE TYPE: Beta Gauge Source

DESCRIPTION:

The source consists of 500 millicuries of krypton-85 in gaseous form deposited in a container. After gas has entered the cavity through soft copper tube, it is severed forming a cold welded joint prior to soft soldering.

LABELING:

LFE has no information concerning how the sources are labeled.

CONDITIONS OF NORMAL USE:

The source is used in LFE Model DH-75 backscatter beta gauges and is held in place by 3 screw-type fasteners.

PROTOTYPE TESTING:

A prototype of the source was tested to ensure it is capable of withstanding 200 psi (1400 kPa) of pressure without leak or rupture.

EXTERNAL RADIATION LEVELS:

The source was only used in the Model DH-75. Therefore, reference the certificate for the Model DH-75 for the radiation levels from the source when in use.

LIMITATIONS AND/OR OTHER CONSIDERATIONS OF USE:

- The sealed source may be used by specific licensees of NRC or Agreement States when used in a Model DH-75 gauging device.
- Handling, storage, use, transfer, and disposal: To be determined by the licensing authority.

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF SEALED SOURCE

NO.: NR-420-S-830-S

DATE: September 28, 1995

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SEALED SOURCE TYPE: Beta Gauge Source

LIMITATIONS AND/OR OTHER CONSIDERATIONS OF USE (Cont.):

- This registration sheet and the information contained within the references shall not be changed without the written consent of the NRC.

SAFETY ANALYSIS SUMMARY:

The Model S-75 sealed source is no longer distributed by the LFE. LFE has indicated that it has distributed approximately 6 sources under Model S-75 designation. LFE may accept return of the sources.

REFERENCES:

The following supporting documents for the Model S-75 sealed source are hereby incorporated by reference and are made a part of this registry document.

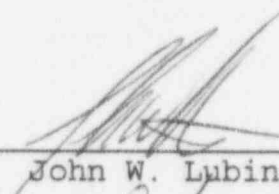
- LFE's letters dated September 5, 1995, September 16, 1991, and August 6, 1991, with enclosures thereto.

ISSUING AGENCY:

U.S. Nuclear Regulatory Commission

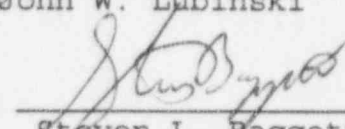
Date: September 28, 1995

Reviewer:


John W. Lubinski

Date: September 28, 1995

Concurrence:


Steven L. Baggett

INFORMAT ON RECORD

TYPE:

Note to LFE files for registration certificates made inactive September 1995.

ORGANIZATION:

LFE

DATE:

09/21/95

SUMMARY:

Existing AEC/NRC files (registration files, license files, NUDOCs, and archives) concerning these products were examined for information that supports registration of the products. Copies of all applicable information located is included in this file.

The manufacturer, LFE, was also asked for additional information concerning the products. However, many of the products have not been distributed for years, or the product lines were sold in the late 1960's, and LFE provided all additional information they have concerning the products.

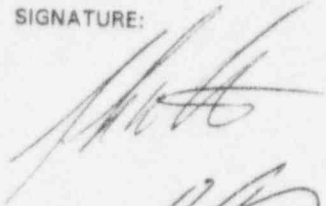
NRC has transferred the registration certificates to inactive, as requested by LFE, and continues to conclude the products are acceptable for licensing purposes based on AEC's original evaluation of the products and the operational history of the products.

PERSONS DOCUMENTING THE INFORMATION:

John W. Lubinski

Steven L. Baggett

SIGNATURE:



DATE:

09/21/95

09/21/95