

CERTIFICATE OF DISPOSITION OF MATERIALS

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal is used by NRC as part of the basis for its determination that the facility is released for unrestricted use. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0028), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

LICENSEE NAME AND ADDRESS

McGhie & Betts, Inc.
1648 3rd Avenue SE
Rochester, Minnesota 55904

LICENSE NUMBER

22-23403-01

DOCKET NUMBER

030-31178

LICENSE EXPIRATION DATE

November 30, 2014

- ☐ This license has expired. ☒ A. LICENSE STATUS (Check the appropriate box)
☒ This license has not yet expired; please terminate it.

B. DISPOSAL OF RADIOACTIVE MATERIAL

(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)

The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:

- ☐ 1. No radioactive materials have ever been procured or possessed by the licensee under this license.
- ☐ 2. All activities authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license number cited above have been disposed of in the following manner:
- ☒ a. Transfer of radioactive materials to the licensee listed below: (Agreement State)
- ☐ b. Disposal of radioactive materials:
- ☐ 1. Directly by the licensee: Minnesota Department of Health
Radioactive Materials Unit
P.O. Box 64975
St. Paul, MN 55164-0975
- ☐ 2. By licensed disposal site: * McGhie & Betts, Inc.
MDH License Number: 1108-102-55
- ☐ 3. By waste contractor:
- ☐ c. All radioactive materials have been removed such that any remaining residual radioactivity is within the limits of 10 CFR Part 20, Subpart E, and is ALARA.

C. SURVEYS PERFORMED AND REPORTED

- ☐ 1. A radiation survey was conducted by the licensee. The survey confirms:
- ☐ a. the absence of licensed radioactive materials
- ☐ b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.
- ☐ 2. A copy of the radiation survey results:
- ☐ a. is attached; or ☐ b. is not attached (Provide explanation); or ☐ c. was forwarded to NRC on: _____ Date _____
- ☒ 3. A radiation survey is not required as only sealed sources were ever possessed under this license, and
- ☒ a. The results of the latest leak test are attached; and/or ☒ b. No leaking sources have ever been identified.

The person to be contacted regarding the information provided on this form:

NAME	TITLE	TELEPHONE (Include Area Code)	E-MAIL ADDRESS
Barry J. Hentz	Radiation Safety Officer	(507) 645-0964	barry.hentz@nrc.gov

Mail all future correspondence regarding this license to:

McGhie & Betts, Inc., 1648 3rd Avenue S.E. Rochester, MN 55904

C. CERTIFYING OFFICIAL

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE

Barry J. Hentz - Radiation Safety Officer

SIGNATURE



DATE

2/2/12

WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECT. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

**Troxler Electronic Laboratories, Inc.**

3008 Cornwallis Rd., P.O. Box 12057

Research Triangle Park, NC 27709

Tel: (877) 876-9537 Fax: (866) 391-2759

License: NC 032-0182-1

BARRY HENTZ
MCGHIE-BETTS, INC.
1604 RIVERVIEW LANE
NORTHFIELD, MN 55057

Cust ID: 11763

LEAK TEST CERTIFICATE

DEVICE:

Model: 3430

Serial No: 32228

SEALED SOURCES:

Serial No.	Measure Date	Nuclide	GBq	mCi
750-7368	05/24/2000	Cs-137	0.296	8
47-28560	02/05/1999	Am-241:Be	1.48	40

LEAK TEST ANALYSIS:

Sample collected on: 01/11/2012

Sample analyzed on: 01/23/2012 4:18:55 PM Position: 15

Analyzed by: C. Eftekhari

	ALPHA	BETA-GAMMA
Conversion factor (cpm/Bq)	1.22E+01	1.95E+01
Background measurement (cpm)	2	27
Sample measurement (cpm)	0	25
Activity (Bq)	< MDA	< MDA
Min. Detectable Activity (Bq)	7.2E-01	1.4E+00

This certifies that the leak test results are:

Less than 185 Bq (0.005 uCi)



Greater than 185 Bq (0.005 uCi)

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BARRY HENTZ
MCGHIE-BETTS, INC.
1648 THIRD AVENUE SE
ROCHESTER, MN 55904

Cust ID: 11765

LEAK TEST CERTIFICATE

DEVICE:**Model:** 3440**Serial No:** 27375**SEALED SOURCES:**

Serial No.	Measure Date	Nuclide	GBq	mCi
47-23761	10/31/1996	Am-241:Be	1.48	40
750-1137	02/07/1997	Cs-137	0.296	8

LEAK TEST ANALYSIS:**Sample collected on:** 01/11/2012**Sample analyzed on:** 01/23/2012 4:20:07 PM **Position:** 16**Analyzed by:** C. Eftekhari

	ALPHA	BETA-GAMMA
Conversion factor (cpm/Bq)	1.22E+01	1.95E+01
Background measurement (cpm)	2	27
Sample measurement (cpm)	0	15
Activity (Bq)	< MDA	< MDA
Min. Detectable Activity (Bq)	7.2E-01	1.4E+00

This certifies that the leak test results are:☒ **Less than 185 Bq (0.005 uCi)**☐ **Greater than 185 Bq (0.005 uCi)**

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BARRY HENTZ
MCGHIE-BETTS, INC.
1604 RIVERVIEW LANE
NORTHFIELD, MN 55057

Cust ID: 11763

LEAK TEST CERTIFICATE

DEVICE:

Model: 3440 Serial No: 35038

SEALED SOURCES:

Serial No.	Measure Date	Nuclide	GBq	mCi
77-2155	01/30/2004	Cs-137	0.296	8
47-30158	11/30/2001	Am-241:Be	1.48	40

LEAK TEST ANALYSIS:

Sample collected on: 01/11/2012

Sample analyzed on: 01/23/2012 4:21:19 PM Position: 17

Analyzed by: C. Eftekhari

	ALPHA	BETA-GAMMA
Conversion factor (cpm/Bq)	1.22E+01	1.95E+01
Background measurement (cpm)	2	27
Sample measurement (cpm)	5	38
Activity (Bq)	< MDA	< MDA
Min. Detectable Activity (Bq)	7.2E-01	1.4E+00

This certifies that the leak test results are:

☒ Less than 185 Bq (0.005 uCi)

☐ Greater than 185 Bq (0.005 uCi)

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BARRY HENTZ
MCGHIE-BETTS, INC.
1604 RIVERVIEW LANE
NORTHFIELD, MN 55057

Cust ID: 11763

LEAK TEST CERTIFICATE

DEVICE:

Model: 3440

Serial No: 25074

SEALED SOURCES:

Serial No.	Measure Date	Nuclide	GBq	mCi
75-7248	04/06/1995	Cs-137	0.296	8
47-21279	02/10/1995	Am-241:Be	1.48	40

LEAK TEST ANALYSIS:

Sample collected on: 01/11/2012

Sample analyzed on: 01/23/2012 4:22:31 PM Position: 18

Analyzed by: C. Eftekhari

	ALPHA	BETA-GAMMA
Conversion factor (cpm/Bq)	1.22E+01	1.95E+01
Background measurement (cpm)	2	27
Sample measurement (cpm)	0	25
Activity (Bq)	< MDA	< MDA
Min. Detectable Activity (Bq)	7.2E-01	1.4E+00

This certifies that the leak test results are:

Less than 185 Bq (0.005 uCi)



Greater than 185 Bq (0.005 uCi)



www.qaltek.com
Qal-Tek Associates

7801 N. Lamar Blvd. Ste. E204
Austin, TX 78752
Ph: 512 407-9252

3998 Commerce Circle
Idaho Falls, ID 83401
Ph: 208 523-5557
Fax: 208 524-8470

712 S. Hacienda Drive Ste. 6
Tempe, AZ 85281
Ph: 480 304-5199

SEALED RADIOACTIVE SOURCE LEAK TEST REPORT

Company: McGhie & Betts, Inc. - Northfield

Acct#: 100692

Ref#: W1781-006733

Street: 1604 Riverview Lane

City/ST/Zip: Northfield, MN 55057-3139

Phone: 507-645-0964

Fax: 507-645-2842

Serial Number: 17351

Mfg: Troxler

Model: 3440

Leak Test
Date: 21-Dec-2011

Leak Test
Due Date: 21-Jun-2012

Test Instrument

Test Instrument	Ludlum : 3030 : 219695
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Test Instrument Info

MDA	less than 0.005 μ Ci
α efficiency	37.1
β efficiency	38.4
Det. Type	ZnS (Ag)
Last Cal. Date	03-Jun-2011

Test Results

Isotope	Activity	net α CPM	net β /g CPM	net α μ Ci	net β /g μ Ci	Pass/Fail
Am241	40 mCi	1	5	0.000002	0.000012	Pass
Cs137	8 mCi	1	1	0.000002	0.000002	Pass

Instrument Technician: Matt Williams

Date of Service: 03-Jan-2012

Qal-Tek Associates certifies that all leak test measurements are performed in accordance with NRC licensee requirements for isotopic detection limits. For this purpose the MDA is below the NRC regulatory limits of $<0.005 \mu$ Ci



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Fax: 208 524-8470

712 S. Hacienda Drive Ste. 6
Tempe, AZ 85281
Ph: 480 304-5199

SEALED RADIOACTIVE SOURCE LEAK TEST REPORT

Company: McGhie & Betts, Inc. - Northfield
Street: 1604 Riverview Lane
City/ST/Zip: Northfield, MN 55057-3139
Phone: 507-645-0964

Acct#: 100692 Ref#: W1781-006734

Fax: 507-645-2842

Serial Number: **33290**

Mfg: Troxler

Model: 3440

Leak Test
Date: 21-Dec-2011

Leak Test
Due Date: 21-Jun-2012

Test Instrument

Test Instrument	Ludlum : 3030 : 219695
-----------------	------------------------

Test Instrument Info

MDA	less than 0.005 μ Ci
α efficiency	37.1
β efficiency	38.4
Det. Type	ZnS (Ag)
Last Cal. Date	03-Jun-2011

Test Results

Isotope	Activity	net a CPM	net b/g CPM	net a μ Ci	net b/g μ Ci	Pass/Fail
Am241	40 mCi	0	6	0	0.000014	Pass
Cs137	8 mCi	0	6	0	0.000014	Pass

Instrument Technician: Matt Williams

Date of Service: 03-Jan-2012

Qal-Tek Associates certifies that all leak test measurements are performed in accordance with NRC licensee requirements for isotopic detection limits. For this purpose the MDA is below the NRC regulatory limits of <0.005 μ Ci



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Qal-Tek Associates

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Ph: 480 304-5199

SEALED RADIOACTIVE SOURCE LEAK TEST REPORT

Company: McGhie & Betts, Inc. - Northfield Acct#: 100692 Ref#: W1781-006732
Street: 1604 Riverview Lane
City/ST/Zip: Northfield, MN 55057-3139
Phone: 507-645-0964 Fax: 507-645-2842
Serial Number: **26496** Mfg: Troxler Model: 3430
Leak Test Date: 21-Dec-2011 Leak Test Due Date: 21-Jun-2012

Test Instrument

Test Instrument	Ludlum : 3030 : 219695
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Test Instrument Info

MDA	less than 0.005 μ Ci
α efficiency	37.1
β efficiency	38.4
Det. Type	ZnS (Ag)
Last Cal. Date	03-Jun-2011

Test Results

Isotope	Activity	net a CPM	net b/g CPM	net a μ Ci	net b/g μ Ci	Pass/Fail
Am241	40 mCi	0	1	0	0.000002	Pass
Cs137	8 mCi	0	3	0	0.000007	Pass

Instrument Technician: Matt Williams

Date of Service: 03-Jan-2012

Qal-Tek Associates certifies that all leak test measurements are performed in accordance with NRC licensee requirements for isotopic detection limits. For this purpose the MDA is below the NRC regulatory limits of $<0.005 \mu$ Ci



McGhie

Betts, Inc.

1604 Riverview Lane
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To:

Materials Licensing Section
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Lisle, IL 60532-4352