

September 13, 2016

Bryan Parker
Materials Licensing Branch
U.S. Nuclear Regulatory Commission, Region III
2443 Warrenville Road, Suite 200
Lisle, IL 60532-4352

RE: Amendment to License Number 21-13783-02

Dear Bryan

The sealed sources at the 947 Pine Street Sebewaing, Michigan location have been transferred to and are in the possession of QSA Global 6765 Langley Drive Baton Rouge, Louisiana. The final leak test and the letter of transfer for serial numbers 1728, B0034, B0040, B2482, and 73805 are attached. The facility remains in operation without the nuclear sources and we would request that it be removed from the license.

The sealed sources at 159 South Howard Crosswell, Michigan location have been transferred to and are in the possession of QSA Global 6765 Langley Drive Baton Rouge, Louisiana. The final leak test and the letter of transfer for serial numbers B-1134 and 750 are attached. The facility remains in operation without the nuclear sources and we would request that it be removed from the license.

The sealed sources at 891 Peninsular Street Caro, Michigan location have been transferred to QSA Global 6765 Langley Drive Baton Rouge, Louisiana. The final leak test and the letter of transfer for serial numbers B-5368, B1720, 2880, 1458, 93, and 73317 are attached. These sources were just transferred and we wish to keep this location on the license in the event that the nonnuclear devices do not perform adequately. This would require the reinstallation of a nuclear device and we wish to keep this option open for them.

If you need additional information please contact me.

Sincerely,



Michael Millershaski
Technical Services Manager RSO
Phone 989-686-0161 ext 2380
Fax 989-754-7778



6765 Langley Drive
Baton Rouge, Louisiana 70809

Date: July 23, 2013

Michael Millershaski
Michigan Sugar Co.
763 North Beck Street
Sebewaing, MI 48759

MRA # 30589

This is to advise that the Radioactive Material as detailed below has been received by QSA Global, Inc as of 7-22-13 and we have taken possession of these sources.

| Manufacturer | Model | S/N | Isotope | Activity |
|---------------|---------|-------|---------|----------|
| Berthold | LB7440F | 1728 | Cs-137 | 30 mci |
| Texas Nuclear | 5031 | B0034 | Cs-137 | 50 mci |
| Texas Nuclear | 5031 | B0040 | Cs-137 | 50 mci |
| Texas Nuclear | 5200 | B2482 | Cs-137 | 50 mci |
| Ohmart | SR-A | 73805 | Cs-137 | 60 mci |

Please retain this record for your files. Should you require further assistance, please contact us at QSA Global, Inc.

Regards,

Rusty Barrett
Technical Service Manager



MICROTEC SERVICES, INC.

110 Charles Street ♦ Pasadena, TX 77506
Tel (713) 475-2274 Fax (713) 475-2362

Leak Testing
Calibrations
Repair
New Instruments

***** Certificate of Leak Test *****

Customer: MICHIGAN SUGAR COMPANY
BAY CITY, MI

This is to certify that the leak test on the indicated source(s) shown below has been analyzed on the specified date and the results shown accurately represent the level of removable contamination.

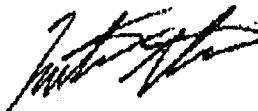
***** Source Information *****

Serial Number: 1728
Isotope: Cs-137
Activity: 30 mCi.
Remarks: SLACKER
Manufacturer / Model: BERTHOLD
Date of Test: 05-Jun-13

***** Leak Test Analysis Data *****

Gross Counts: 194
Background: 194
Counting Efficiency: 52.8%
Contamination (DPM): 0
Removable Contamination: Less Than .0001 Microcuries
Less Than 5 Bq.

Date Analyzed: 11-Jun-13 **Analyzed by:**


Quintin A. Stokley

Comments:

(NOTE: Removable contamination equal to or greater than .005 microcuries (11,000 dpm) constitutes a leaking source. Results shown above are in accordance with 10 CFR and Texas TRCR regulations for sealed sources and plated sources.)

TEXAS LICENSE NO. L04656



MICROTEC SERVICES, INC.

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Tel (713) 475-2274 Fax (713) 475-2362

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BAY CITY, MI

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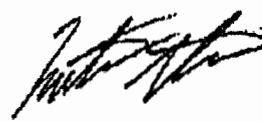
***** Source Information *****

Serial Number: B0034
Isotope: Cs-137
Activity: 50 mCi.
Remarks: SEKEWANING FACT
Manufacturer / Model: TEXAS NUCLEAR 5031
Date of Test: 05-Jun-13

***** Leak Test Analysis Data *****

Gross Counts: 199
Background: 199
Counting Efficiency: 52.8%
Contamination (DPM): 0
Removable Contamination: Less Than .0001 Microcuries
Less Than 5 Bq.

Date Analyzed: 11-Jun-13 **Analyzed by:**


Quintin A. Stokley

Comments:

(NOTE: Removable contamination equal to or greater than .005 microcuries (11,000 dpm) constitutes a leaking source. Results shown above are in accordance with 10 CFR and Texas TRCR regulations for sealed sources and plated sources.)

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***** Source Information *****

Serial Number: B0040
Isotope: Cs-137
Activity: 50 mCi.
Remarks: SEKEWANING FACT
Manufacturer / Model: TEXAS NUCLEAR 5031
Date of Test: 05-Jun-13

***** Leak Test Analysis Data *****

Gross Counts: 195
Background: 195
Counting Efficiency: 52.8%
Contamination (DPM): 0
Removable Contamination: Less Than .0001 Microcuries
Less Than 5 Bq.

Date Analyzed: 11-Jun-13 **Analyzed by:**

Quintin A. Stokley

Comments:

(NOTE: Removable contamination equal to or greater than .005 microcuries (11,000 dpm) constitutes a leaking source. Results shown above are in accordance with 10 CFR and Texas TRCR regulations for sealed sources and plated sources.)

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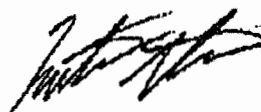
***** Source Information *****

Serial Number: B2482
Isotope: Cs-137
Activity: 50 mCi.
Remarks: SEKEWANING FACT
Manufacturer / Model: TEXAS NUCLEAR 5200
Date of Test: 05-Jun-13

***** Leak Test Analysis Data *****

Gross Counts: 167
Background: 167
Counting Efficiency: 52.8%
Contamination (DPM): 0
Removable Contamination: Less Than .0001 Microcuries
Less Than 5 Bq.

Date Analyzed: 11-Jun-13 **Analyzed by:**


Quintin A. Stokley

Comments:

(NOTE: Removable contamination equal to or greater than .005 microcuries (11,000 dpm) constitutes a leaking source. Results shown above are in accordance with 10 CFR and Texas TRCR regulations for sealed sources and plated sources.)

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This is to certify that the leak test on the indicated source(s) shown below has been analyzed on the specified date and the results shown accurately represent the level of removeable contamination.

***** Source Information *****

Serial Number: 73805
Isotope: Cs-137
Activity: 100 mCi.
Remarks: SEKEWANING FACT
Manufacturer / Model: OHMART SR-A
Date of Test: 05-Jun-13

***** Leak Test Analysis Data *****

Gross Counts: 168
Background: 168
Counting Efficiency: 52.8%
Contamination (DPM): 0
Removable Contamination: Less Than .0001 Microcuries
Less Than 5 Bq.

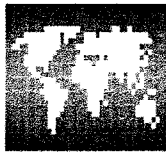
Date Analyzed: 11-Jun-13 **Analyzed by:**

Quintin A. Stokley

Comments:

(NOTE: Removable contamination equal to or greater than .005 microcuries (11,000 dpm) constitutes a leaking source. Results shown above are in accordance with 10 CFR and Texas TRCR regulations for sealed sources and plated sources.)

TEXAS LICENSE NO. L04656



QSA GLOBAL

6765 Langley Drive
Baton Rouge, Louisiana 70809

Date: July 23, 2013

Michael Millershaski
Michigan Sugar Co.
159 S. Howard St.
Croswell, MI 48422

MRA # 30590

This is to advise that the Radioactive Material as detailed below has been received by QSA Global, Inc as of 7-22-13 and we have taken possession of these sources.

| Manufacturer | Model | S/N | Isotope | Activity |
|---------------|---------|--------|---------|----------|
| Texas Nuclear | 5200 | B-1134 | Cs-137 | 100 mci |
| In-Val-Co | D-20-60 | 750 | Cs-137 | 200 mci |

Please retain this record for your files. Should you require further assistance, please contact us at QSA Global, Inc.

Regards,

Rusty Barrett
Technical Service Manager



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Customer: MICHIGAN SUGAR COMPANY
BAY CITY, MI

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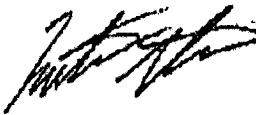
***** Source Information *****

Serial Number: B1134
Isotope: Cs-137
Activity: 100 mCi.
Remarks: CROSWELL FACTORY
Manufacturer / Model: TEXAS NUCLEAR 5200
Date of Test: 02-Jul-13

***** Leak Test Analysis Data *****

Gross Counts: 167
Background: 167
Counting Efficiency: 52.8%
Contamination (DPM): 0
Removable Contamination: Less Than .0001 Microcuries
Less Than 5 Bq.

Date Analyzed: 23-Jul-13 **Analyzed by:**


Quintin A. Stokley

Comments:

(NOTE: Removable contamination equal to or greater than .005 microcuries (11,000 dpm) constitutes a leaking source. Results shown above are in accordance with 10 CFR and Texas TRCR regulations for sealed sources and plated sources.)

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Customer: MICHIGAN SUGAR COMPANY
BAY CITY, MI

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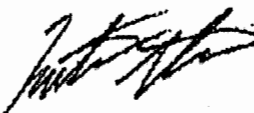
***** Source Information *****

Serial Number: 750
Isotope: Cs-137
Activity: 200 mCi.
Remarks: CROSWELL FACTORY
Manufacturer / Model: IN-VAL-CO D-20-06
Date of Test: 02-Jul-13

***** Leak Test Analysis Data *****

Gross Counts: 193
Background: 193
Counting Efficiency: 52.8%
Contamination (DPM): 0
Removable Contamination: Less Than .0001 Microcuries
Less Than 5 Bq.

Date Analyzed: 23-Jul-13 Analyzed by:


Quintin A. Stokley

Comments:

(NOTE: Removable contamination equal to or greater than .005 microcuries (11,000 dpm) constitutes a leaking source. Results shown above are in accordance with 10 CFR and Texas TRCR regulations for sealed sources and plated sources.)

TEXAS LICENSE NO. L04656



QSA GLOBAL

6765 Langley Drive
Baton Rouge, Louisiana 70809

Date: July 7, 2016

Michael Millershaski
Michigan Sugar Co.
819 Peninsular Street
Caro, MI 48723

MRA # 34292

This is to advise that the Radioactive Material as detailed below has been received by QSA Global, Inc as of 7-1-16 and we have taken possession of these sources.

| Manufacturer | Model | S/N | Isotope | Activity |
|---------------|---------|--------|---------|----------|
| Thermo Fisher | 5201 | B-5368 | Cs-137 | 100 mci |
| Texas Nuclear | 5200 | B1720 | Cs-137 | 100 mci |
| Berthold | LB7440D | 2880 | Cs-137 | 50 mci |
| Berthold | LB7440D | 1458 | Cs-137 | 50 mci |
| Berthold | LB7440D | 93 | Cs-137 | 50 mci |
| Ohmart | SR-A | 73317 | Cs-137 | 50 mci |

Please retain this record for your files. Should you require further assistance, please contact us at QSA Global, Inc.

Regards,

Rusty Barrett
Technical Service Manager



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Customer: MICHIGAN SUGAR COMPANY
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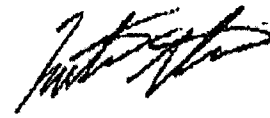
***** Source Information *****

Serial Number: B5368
Isotope: Cs-137
Activity: 100 mCi.
Remarks: CARO MILK OF LIME
Manufacturer / Model: THERMO FISHER 5201
Date of Test: 13-Apr-16

***** Leak Test Analysis Data *****

Gross Counts: 209
Background: 199
Counting Efficiency: 52.8%
Contamination (DPM): 19
Removable Contamination: Less Than .0001 Microcuries
Less Than 5 Bq.

Date Analyzed: 26-Apr-16 Analyzed by:


Quintin A. Stokley

Comments:

(NOTE: Removable contamination equal to or greater than .005 microcuries (11,000 dpm) constitutes a leaking source. Results shown above are in accordance with 10 CFR and Texas TRCR regulations for sealed sources and plated sources.)

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***** Certificate of Leak Test *****

Customer: MICHIGAN SUGAR COMPANY
BAY CITY, MI

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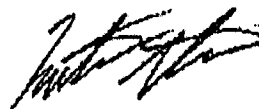
***** Source Information *****

Serial Number: B1720
Isotope: Cs-137
Activity: 100 mCi.
Remarks: CARO LIME VILN E
Manufacturer / Model: TEXAS NUCLEAR 5200
Date of Test: 13-Apr-16

***** Leak Test Analysis Data *****

Gross Counts: 196
Background: 196
Counting Efficiency: 52.8%
Contamination (DPM): 0
Removable Contamination: Less Than .0001 Microcuries
Less Than 5 Bq.

Date Analyzed: 26-Apr-16 **Analyzed by:**


Quintin A. Stokley

Comments:

(NOTE: Removable contamination equal to or greater than .005 microcuries (11,000 dpm) constitutes a leaking source. Results shown above are in accordance with 10 CFR and Texas TRCR regulations for sealed sources and plated sources.)

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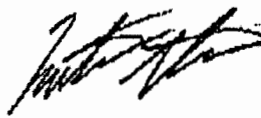
***** Source Information *****

Serial Number: 2880
Isotope: Cs-137
Activity: 50 mCi.
Remarks: CARO THICK JUICE
Manufacturer / Model: BERTHOLD LB 74400
Date of Test: 13-Apr-16

***** Leak Test Analysis Data *****

Gross Counts: 185
Background: 185
Counting Efficiency: 52.8%
Contamination (DPM): 0
Removable Contamination: Less Than .0001 Microcuries
Less Than 5 Bq.

Date Analyzed: 26-Apr-16 **Analyzed by:**


Quintin A. Stokley

Comments:

(NOTE: Removable contamination equal to or greater than .005 microcuries (11,000 dpm) constitutes a leaking source. Results shown above are in accordance with 10 CFR and Texas TRCR regulations for sealed sources and plated sources.)

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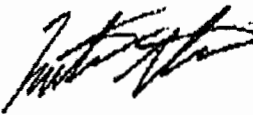
***** Source Information *****

Serial Number: 1458
Isotope: Cs-137
Activity: 50 mCi.
Remarks: CARO MILK OF LINE
Manufacturer / Model: BERTHOLD LB-7440D
Date of Test: 13-Apr-16

***** Leak Test Analysis Data *****

Gross Counts: 192
Background: 192
Counting Efficiency: 52.8%
Contamination (DPM): 0
Removable Contamination: Less Than .0001 Microcuries
Less Than 5 Bq.

Date Analyzed: 26-Apr-16 **Analyzed by:**


Quintin A. Stokley

Comments:

(NOTE: Removable contamination equal to or greater than .005 microcuries (11,000 dpm) constitutes a leaking source. Results shown above are in accordance with 10 CFR and Texas TRCR regulations for sealed sources and plated sources.)

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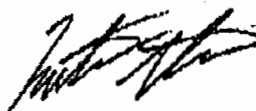
***** Source Information *****

Serial Number: 93
Isotope: Cs-137
Activity: 50 mCi.
Remarks: CARO EVAP DEA
Manufacturer / Model: BERTHOLD LB-74400
Date of Test: 13-Apr-16

***** Leak Test Analysis Data *****

Gross Counts: 187
Background: 187
Counting Efficiency: 52.8%
Contamination (DPM): 0
Removable Contamination: Less Than .0001 Microcuries
Less Than 5 Bq.

Date Analyzed: 26-Apr-16 **Analyzed by:**


Quintin A. Stokley

Comments:

(NOTE: Removable contamination equal to or greater than .005 microcuries (11,000 dpm) constitutes a leaking source. Results shown above are in accordance with 10 CFR and Texas TRCR regulations for sealed sources and plated sources.)

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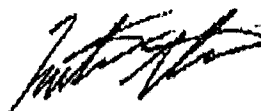
***** Source Information *****

Serial Number: 73317
Isotope: Cs-137
Activity: 50 mCi.
Remarks: CARO MILK OF LIME
Manufacturer / Model: OHMART A-2102
Date of Test: 13-Apr-16

***** Leak Test Analysis Data *****

Gross Counts: 203
Background: 199
Counting Efficiency: 52.8%
Contamination (DPM): 8
Removable Contamination: Less Than .0001 Microcuries
Less Than 5 Bq.

Date Analyzed: 26-Apr-16 **Analyzed by:**


Quintin A. Stokley

Comments:

(NOTE: Removable contamination equal to or greater than .005 microcuries (11,000 dpm) constitutes a leaking source. Results shown above are in accordance with 10 CFR and Texas TRCR regulations for sealed sources and plated sources.)

TEXAS LICENSE NO. L04656

Taylor, Tiresha

From: Parker, Bryan
Sent: Tuesday, October 04, 2016 4:53 PM
To: Tomczak, Tammy; Taylor, Tiresha
Subject: FW: License 21-13783-02
Attachments: Sebewaing Transfer and leak test.pdf; Croswell Transfer and leak test.pdf; Caro Transfer and leak test.pdf; Bryan Parker letter.pdf; MI Sugar 665.pdf

Hey Tammy and Tiresha,

Here's another document I need in ADAMS so I can tie it down. 665 is attached too. Please send me the ML no. when done.

Thanks. You guys are awesome!!

Bryan

From: Millershaski, Mike [mailto:Mike.Millershaski@Michigansugar.com]
Sent: Tuesday, September 13, 2016 3:14 PM
To: Parker, Bryan <Bryan.Parker@nrc.gov>
Cc: Noble, David <david.noble@Michigansugar.com>
Subject: [External_Sender] License 21-13783-02

Bryan,

Per our phone conversation:

The letter of transfer and final leak test are attached for the Sebewaing, Croswell, and Caro locations.

The attached letter should clarify the intent and reason to keep Caro on the license.

If you need additional information please contact me.

If Bill Reichold is still around tell congratulation's on his retirement.

Thanks,

Michael Millershaski
Technical Services Manager
Ph 989-686-1549 ext 2380