

Valentin-Rodriguez, Celimar

From: Michael Tuomi <Michael.Tuomi@libertyfrac.com>
Sent: Monday, August 14, 2017 6:02 PM
To: Valentin-Rodriguez, Celimar
Subject: [External_Sender] RE: Liberty Oilfield Services
Attachments: Scanned from a Xerox Multifunction Printer.pdf

Hi Celimar,

I apologize, and attached are properly completed versions of Section 4.

Explanation of transfer:

Our gauges are permanently mounted onto our trucks. Due to demand, our company has expanded in Colorado and it is a much easier process to move the whole truck than to have a specific license holder come remove the mounted gauges. As a result, we would like to officially transfer the following gauges to our Colorado license:

Serial Number	Source Serial	Model Number	Source	Quantity	Manufacturer
B 7954	CO-9645	5192	Cs-137	200mCl	Thermo Fisher Scier
B 8277	CO-5081	5190	Cs-137	200mCl	Thermo Fisher Scier

Thank you!

From: Valentin-Rodriguez, Celimar [mailto:Celimar.Valentin-Rodriguez@nrc.gov]
Sent: Monday, August 14, 2017 12:34 PM
To: Michael Tuomi <Michael.Tuomi@libertyfrac.com>
Subject: RE: Liberty Oilfield Services

Good Afternoon Michael,

After looking over the General Licensee Registration Form you submitted, I will need the following,

- Since you marked that you are not in possession of more than 1 of your devices, you will need to complete Section 4, for each device. You should photocopy Section 4 and use it as many times as is necessary.
- For each device that you fill in a Section 4, you will need to:
 - For Part 1 of Section 4:
 - Enter the NRC Device Key listed in Section 2
 - Enter Transfer Date
 - Mark **Transferred to a Specific Licensee (not the manufacturer)**
 - For Part 2 of Section 4:
 - Include your CO license number in Part 2 of each Section 4

The rest of the information you included in the page should remain the same.



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04/13/2017

SECTION 4 - NOT IN POSSESSION OF DEVICE

SECT
PAGE

Provide information about devices listed in Section 2 or 6, but no longer in your possession.

Part 1

NRC Device Key:
(from Section 2 or 6)

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Transfer Date:

1	2	2	1	2	0	1	6
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MM DD YYYY

Location of the Device:

- Whereabouts Unknown (complete Part 1 only)
- Never Possessed the Device (complete Part 1 only)
- Returned to Manufacturer (complete Part 1 only)
- Transferred to another general licensee (complete Part 2)
- Transferred to a Specific Licensee (Not the manufacturer) (complete Part 2)

Part 2 License Number of Recipient (if transferred to a specific licensee):

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

You may email me those two pages and I will attach them to the form you have already emailed me.

Also, in your email please include a short explanation of the transfer.

Do not hesitate to contact me with any further questions.

Thank you,
Celimar

Celimar Valentin-Rodriguez, Ph.D.

General Engineer
U.S. Nuclear Regulatory Commission
NMSS/MSTR/MSLB

☎ (301) 415-7124

✉ Celimar.Valentin-Rodriguez@nrc.gov

From: Michael Tuomi [<mailto:Michael.Tuomi@libertyfrac.com>]
Sent: Monday, August 07, 2017 4:59 PM
To: Valentin-Rodriguez, Celimar <Celimar.Valentin-Rodriguez@nrc.gov>
Subject: [External_Sender] Liberty Oilfield Services

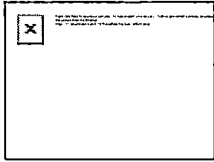
Dear Ms. Valentin-Rodriguez,

This email serves as a follow-up to our conversation on 7-20-2017 regarding transferring 2 gauges from WY (NRC GLA) to CO. Attached is our specific license to receive the devices, and the information requested is below.

Serial Number	Source Serial	Model Number	Source	Quantity	Manufacturer
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B 7954	CO-9645	5192	Cs-137	200mCl	Thermo Fisher Scier
B 8277	CO-5081	5190	Cs-137	200mCl	Thermo Fisher Scier

I can be reached at either of the numbers below, thank you.



MICHAEL TUOMI, RSO
Compliance Manager
Office 303-515-2848
Cell 720-556-8745
Michael.Tuomi@libertyfrac.com

From: Michael Tuomi
To: Valentin-Rodriguez, Celimar
Subject: [External_Sender] Liberty Oilfield Services
Date: Monday, August 07, 2017 4:59:35 PM
Attachments: CO Radiation Specific License.pdf
NRC Annual General License Registration 4-27-2017.pdf

Dear Ms. Valentin-Rodriguez,

This email serves as a follow-up to our conversation on 7-20-2017 regarding transferring 2 gauges from WY (NRC GLA) to CO. Attached is our specific license to receive the devices, and the information requested is below.

Serial Number	Source Serial	Model Number	Source	Quantity	Manufacturer
B 7954	CO-9645	5192	Cs-137	200mCi	Thermo Fisher Scientific
B 8277	CO-5081	5190	Cs-137	200mCi	Thermo Fisher Scientific

I can be reached at either of the numbers below, thank you.

	MICHAEL TUOMI, RSO <i>Compliance Manager</i> Office 303-515-2848 Cell 720-556-8745 Michael.Tuomi@libertyfrac.com
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SECTION 2 - DEVICES SUBJECT TO REGISTRATION

SECTION 2

Our records indicate that you have these devices. Please update the information as necessary.

PAGE 7 of 9

NRC Device Key 839513 (Internal Control Number)

Distributor/Distributed By: THERMO FISCHER SCIENTIFIC

Empty grid for distributor information

Distributor License Number: L03524

Empty grid for distributor license number

Manufacturer Name: THERMO MEASURETECH

Empty grid for manufacturer name

Device Model (Not Source Model): 5192

Empty grid for device model

Device Serial Number: B7954

Empty grid for device serial number

Transfer Date (Receipt Date): 03/21/2016

Empty grid for transfer date

Not in possession of device (Also complete Section 4.)

MM DD YYYY

	Isotope (e.g. AM241)	Activity (e.g. 100)	Unit (e.g. mCi)
1	CS137 <input type="text"/>	200.00000000 <input type="text"/>	mCi <input type="text"/>
2	<input type="text"/>	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>	<input type="text"/>
4	<input type="text"/>	<input type="text"/>	<input type="text"/>
5	<input type="text"/>	<input type="text"/>	<input type="text"/>
6	<input type="text"/>	<input type="text"/>	<input type="text"/>



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Date 4/13/2017

SECTION 4 - NOT IN POSSESSION OF DEVICE

SECTION 4

PAGE 1 OF 2

Provide information about devices listed in Section 2 or 6, but no longer in your possession.

Part 1

NRC Device Key 839511
(from Section 2 or 6)

Transfer Date

12 21 2016
MM DD YYYY

Location of the Device:

- Whereabouts Unknown (Complete Part 1 only)
- Never Possessed the Device (Complete Part 1 only)
- Returned to Manufacturer (Complete Part 1 only)
- Transferred to another general licensee (Complete Parts 2 and 3)
- Transferred to a Specific Licensee (not the manufacturer) (Complete Part 2)

Part 2

License Number of Recipient (if transferred to a specific licensee)

CO 1243-01

Company Name:

LIBERTY OILFIELD SERVICES

Department:

HSE

Address Line 1:

950 17TH STREET SUITE 2000

Address Line 2:

City:

DENVER

State: CO

Zip Code: 80202

Part 3 Enter the name of the individual responsible for this device.

Last Name:

TUOMI

First Name:

MICHAEL

Middle Initial:

Telephone Number:

303 - 515 - 2548

Extension

Title

RSO

GL - 727112 - 21

Date 4/13/2017

SECTION 4 - NOT IN POSSESSION OF DEVICE

Provide information about devices listed in Section 2 or 6, but no longer in your possession.

Part 1

Transfer Date

NRC Device Key 639513
(from Section 2 or 6)

12 21 2016
MM DD YYYY

Location of the Device:

- Whereabouts Unknown (Complete Part 1 only)
- Never Possessed the Device (Complete Part 1 only)
- Returned to Manufacturer (Complete Part 1 only)
- Transferred to another general licensee (Complete Parts 2 and 3)
- Transferred to a Specific Licensee (not the manufacturer) (Complete Part 2)

Part 2

License Number of Recipient (if transferred to a specific licensee)

CO 1243-01

Company Name:

LIBERTY OILFIELD SERVICES

Department:

HSE

Address Line 1:

950 17TH STREET SUITE 2000

Address Line 2:

City:

DENVER

State: CO

Zip Code: 80202

Part 3 Enter the name of the individual responsible for this device.

Last Name:

TUOMI

First Name:

Middle Initial:

MICHAEL

Telephone Number:

Extension

303 - 515 - 2548

Title

RSO



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SECTION 5 - CERTIFICATION

SECTION 5
PAGE 1 of 1

I hereby certify that:

- A. All information contained in this registration is true and complete to the best of my knowledge and belief.
- B. A physical inventory of the devices subject to registration has been completed, and the device information on this form has been checked against the device labeling.
- C. I am aware of the requirements of the general license, provided in 10 CFR 31.5.

(Copies of applicable regulations may be viewed at the NRC website at:

<http://www.nrc.gov/reading-rm/doc-collections/cfr>)

Mark T. [Signature] 4-27-17

SIGNATURE - RESPONSIBLE INDIVIDUAL (Listed in Section 1) DATE

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





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SECTION 6 - DEVICES NOT SUBJECT TO REGISTRATION

SECTION 6

PAGE 1 of 1

NRC Device Key:

Manufacturer License No:

Manufacturer Name:

Model Number:

Serial #:

Transfer Date:



Pursuant to the *Colorado Radiation Control Act*, Title 25, Article 11, *Colorado Revised Statutes*, and the *State of Colorado Rules and Regulations Pertaining to Radiation Control* (the Regulations) and in reliance on statements and representations heretofore made by the licensee designated below; a license is hereby issued authorizing such licensee to transfer, receive, possess and use the radioactive material(s) designated below; and to use such radioactive material(s) for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations, and orders now or hereafter in effect of the Colorado Department of Public Health and Environment and to any conditions specified below.

1. Licensee: Liberty Oilfield Services, LLC
2. Mailing Address: 950 17th St. #2000, Denver, Colorado 80202
3. License Number: CO 1243-01, Amendment Number: 00
4. Expiration date: November 30, 2020
5. Authorized Storage/Use Location: 9540 East 104th Ave, Henderson, Colorado 80640
6. Designated Radiation Safety Officer(s): Michael Tuomi
Designated Alternate Radiation Safety Officer(s): Jefferson Davis
7. Radiation Safety Officer Contact Number: 303-515-2835
8. Fee Category: 3.Q
9. Reference Number:

CONDITIONS

10. **Authorized Radioactive Material and Uses:**
 - A. The licensee is authorized to possess and use not more than 1 Thermo Fisher Model 5190 or Model 5192 gauge for non-routine maintenance. Each gauge contains not more than 7.4 GBq (200 mCi) of ¹³⁷Cs.
 - B. Non-Routine maintenance is restricted to the following activities: installation, relocation, initial surveys, and removal from service not more than 1 Thermo Fisher Model 5190 or Model 5192 gauge for the purpose of pipe exchanges.

11. Authorized Radioactive Material Users:

- A. Radioactive material shall be used by, or under the supervision of Michael Tuomi or Jefferson Davis. All supervised users must complete radiation safety training as described in the training document submitted February 17, 2015 and be approved for use by the Radiation Safety Officer prior to using materials.
- B. The Radiation Safety Officer shall maintain written records indicating the date and basis of approval, and documentation of training, of designated users.

12. General Requirements:

- A. The licensee shall comply with the provisions of the State of Colorado *Rules and Regulations Pertaining to Radiation Control*: Part 3, "Licensing of Radioactive Material"; Part 4, "Standards for Protection Against Radiation"; and Part 10, "Notices, Instructions and Reports to Workers; Inspections".
- B. The licensee shall not transfer possession and/or control of radioactive materials or items contaminated with radioactive material except: by transfer of waste to an authorized recipient; by transfer to a specifically licensed recipient; or, as provided otherwise by specific condition of this license pursuant to the requirements of Part 3, Section 3.22 of the Regulations.
- C. The licensee is authorized to take possession and/or control of materials designated as generally licensed from Liberty Oilfield Services, LLC for the use authorized in Condition 10.A. The licensee may transfer possession and/or control of radioactive materials authorized in Condition 10.A to Liberty Oilfield Services, LLC for use as a generally licensed device once the non-routine maintenance is completed.
- D. Radioactive material authorized by Condition 10 of this license shall be stored and used in a manner that will preclude use by unauthorized personnel.
- E. The licensee shall ensure that information listed in this license is correct and accurate. The licensee shall notify the Department in writing within ten (10) days whenever the information contained in Items 1 through 7 above is no longer current or determined to be incorrect.
- F. The licensee may transport radioactive material or deliver radioactive material to a carrier for transport in accordance with the provisions of Part 17 of the Regulations and the requirements of U.S. Department of Transportation (49 CFR).
- G. The licensee shall not make any false statement, representation, or certification in any application, record, report, plan, or other document regarding radiation levels, tests performed or radiation safety conditions or practices.

13. Occupational Dose Monitoring:

- A. All users of radioactive material must be equipped with personnel monitoring devices capable of detecting both gamma and neutron radiation.

14. Specific Radiation Safety Requirements:

- A. Radioactive material authorized in License Condition 10 of this license shall be tested for leakage and/or contamination in accordance with the requirements of Part 4.16 of the State of Colorado Rules and Regulations Pertaining to Radiation Control at intervals not to exceed 3 years.
- B. The licensee shall conduct tests for the proper operation of the on-off mechanism (shutter) and indicator, if any, at intervals not to exceed 6 months or as specified in the applicable Sealed Source and Device Safety Evaluation Registration Certificate.
- C. Maintenance activities not authorized by Condition 10.B of this license including repair of devices containing radioactive material, as well as installation, replacement, and disposal of sealed sources containing radioactive material used in devices shall be performed only by the manufacturer, or by other persons specifically authorized by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
- D. The licensee shall conduct tests for the proper operation of the on-off mechanism (shutter) and indicator, if any, at intervals not to exceed 6 months or as specified in the applicable Sealed Source and Device Safety Evaluation Registration Certificate.

15. Special License Requirements:

- A. The licensee shall conduct a physical inventory of each sealed source or device containing radioactive material authorized in Condition 10 at intervals not to exceed 6 months. The licensee shall retain each inventory record for 5 years. The inventory records shall contain the date of the inventory, the model number of each sealed source or device, and serial number if one has been assigned, the identity of each source radionuclide and its estimated activity, the location of each source, and the name of the individual who performed the inventory.
- B. The licensee shall maintain a non-routine maintenance log indicating the gauge serial number, user, begin date, completion date, as well as initial and final survey results for each instance of non-routine maintenance. The licensee shall retain the non-routine maintenance record for 5 years.
- C. The licensee may maintain, repair, or replace device components that are not related to the radiological safety of the device, and that do not result in the potential for any portion of the body to come into contact with the primary beam or in increased radiation levels in accessible areas.

- D. The licensee may not maintain, repair, or replace any of the following device components: the sealed source, the source holder, source drive mechanism, on-off mechanism (shutter), shutter control, or shielding, or any component related to the radiological safety of the device.

16. Licensee Commitments and Reference Documents:

The State of Colorado *Rules and Regulations Pertaining to Radiation Control* shall govern unless the licensee's statements, representations, and procedures contained in the application and correspondence are more restrictive than the Regulations. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Condition 10 of this license in accordance with the statements, representations, and procedures contained in:

- A. the application and attachments dated July 28, 2014; and
- B. the license correspondence and attachments dated December 9, 2014; February 17, 2015; April 17, 2015; May 11, 2015; June 18, 2015 and July 30, 2015.

FOR THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT



Digitally signed by James Grice
DN: dc=local, dc=dphe,
ou=Divisions, ou=HMD,
ou=Users, cn=James Grice,
email=james.grice@state.co.us
Date: 2015.11.19 09:21:53
-07'00'

Date: 11/19/2015 By: _____