



Geotechnical Engineering  
Environmental Services  
Materials Testing

RECEIVED

MAR 04 2014

DNMS

March 4, 2014

Nuclear Regulatory Commission  
Region IV  
612 E Lamar Blvd., Suite 400  
Arlington, TX 76011-4125

RE: Application for Material License Amendment  
License Number# 40-29299-01  
Reference# 030-37747


Dear Sir or Madam:

This letter is a request to amend the above referenced Material License to accommodate two (2) newly acquired Troxler nuclear gauges. We request an increase to the maximum amount of Americium-241 for Sealed Neutron Sources from 150 millicuries to 250 millicuries and Cesium-137 for Sealed Sources from 30 millicuries to 50 millicuries.

We also request to modify the Licensee name from Core Engineering & Consulting, LLC to Core Engineering & Consulting, Inc.

Sincerely,

**Core Engineering & Consulting, Inc.**

  
Patrick J. Engels, PE  
Radiation Safety Officer  
[patrick@coresd.com](mailto:patrick@coresd.com)

**PUBLIC**

- ☐ Immediate Release  
☒ Normal Release

**NON-PUBLIC**

- ☐ A.3 Sensitive-Security Related  
☐ A.7 Sensitive Internal  
☐ Other: \_\_\_\_\_

Reviewer: PJ2 Date: 3-17-14

Information Required for Change of Control and/or Change of Ownership  
(including a name change)

Source: NUREG-1556, Volume 15

Please provide the following information concerning changes of control (transferor and/or transferee, as appropriate). If any items are not applicable, so state.

1. Provide a complete description of the transaction (i.e., transfer of stocks or assets, or merger). Indicate whether the name has changed and include the new name. Include the name and telephone number of a licensee contact who NRC may contact if more information is needed.

A. Description of the transaction: Company name change and addition of 2 nuclear gauges.

B. ☐ No name change

☒ New name of licensed organization: Core Engineering & Consulting, Inc.

C. ☒ No change in contact

☐ New contact: \_\_\_\_\_

☐ New telephone number: \_\_\_\_\_

2. Describe any changes in personnel or duties that relate to the licensed program. Include Training and Experience for new personnel.

A. ☒ No changes in personnel having control over licensed activities.

☐ Changes in personnel having control over licensed activities (e.g. officers of a corporation):

B. ☒ No changes in personnel named in the license.

☐ Changes in personnel named in the license (e.g. RSO, Aus) – include training, experience and responsibilities:

3. Describe, in detail, any changes in the organization, location, facilities, equipment or procedures that relate to the licensed program.

☐ Organization:

☒ Equipment:

☐ Location:

☐ Procedures:

☐ Facility:

☐ Not applicable

Added 2 gauges

Model	Serial #
3430	21118
3430	21573

See Attached Gauge Certificates

4. Describe the status of the surveillance program (i.e., surveys, wipe tests, quality control) at the present time and the expected status at the time that control is to be transferred.

A. Description of the status of all surveillance program: *All current*

B. Surveillance Items # Records: calibrations, leak tests, surveys, inventories, and accountability requirements will be current at the time of transfer

☐ Yes

☒ No (explain)

*Nuclear Gauges Calibrations that are not current are not in service.*

5. Confirm that all records concerning the safety and effective decommissioning of the facility will be transferred to the transferee or to NRC, as appropriate. These records include documentation of surveys of ambient radiation levels and fixed and/or removable contamination, including methods sensitivity.

Records transferred to:

☐ New licensee

☐ NRC for license termination

☒ Not applicable

6. Confirm that the transferee will abide by all constraints, conditions, requirements and commitments of the transferor or that the transferee will submit a complete description of the proposed licensed program.

\_\_\_\_\_ will abide by all constraints,  
(transferee company)  
conditions, requirements and commitments of \_\_\_\_\_  
(transferor company)

\_\_\_\_\_  
Signature/Title  
Transferee Official

\_\_\_\_\_  
Signature/Title  
Transferor Official

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

OR

- ☐ Description of proposed licensed program from transferee attached (with signature)

OR

- ☒ Not applicable (name change only)

\_\_\_\_\_  
*Patrick J. Engels*

\_\_\_\_\_  
Certifying Officer – Signature

\_\_\_\_\_  
Patrick J. Engels, RSO

\_\_\_\_\_  
Certifying Official – Typed name and title

\_\_\_\_\_  
*3-6-14*

\_\_\_\_\_  
Date



**Gauge Certificate**  
(with transfer data)

Gauge model: 3430

Serial no: 21573

SS&D registry: NC-646-D-130-S

Transferred on: 1/25/2013

Date Printed: 1/29/2013

**Transfer Data:**

	<b>Transferee</b>	<b>Transferor</b>
License:	40-29299-01	24-20415-01
Company:	CORE ENGINEERING & CONSULTING, LLC	Missouri Department of Transportation
Address:	115 WEST BEEBE AVE. CHAMBERLAIN, SD 57325 USA	1617 MISSOURI BOULEVARD JEFFERSON CITY, MO, 65109 USA

**Sealed Source Data:**

Radionuclide	Activity	Serial No.	Certification Date	Assay Date	Leak Test Date	Troxler Drawing	Special Form Certificate	ANSI Class
CS-137	0.300 GBq (8000 mCi)	75-3104	8/07/1992	8/07/1992	1/17/2013	102112	GB/353/S85	C64444
AM-241:BE	1.480GBq (40.000 mCi)	47-17815	4/14/1992	4/14/1992	1/17/2013	102451	GB/7/S-85	C66544

**Notes:**

1. Certification Date: The most recent date the source was inspected and tested as meeting stringent quality control standards for source integrity.
2. Assay Date: The date the source activity was determined and the reference date for calculation of the current source activity.
3. Leak Test Date: The date the source was leak tested and found to have removable activity of less than 185 Bq (0.005 microcuries).
4. Date format: All dates are in format m/d/yyyy.

**You should permanently retain this document as a record of gauge receipt.**



**Gauge Certificate**  
(with transfer data)

Gauge model: 3430

Serial no: 21118

SS&D registry: NC-646-D-130-S

Transferred on: 1/28/2013

Date Printed: 1/30/2013

**Transfer Data:**

	<b>Transferee</b>	<b>Transferor</b>
License:	40-29299-01	24-20415-01
Company:	CORE ENGINEERING & CONSULTING, LLC	Missouri Department of Transportation
Address:	115 WEST BEEBE AVE. CHAMBERLAIN, SD 57325 USA	1617 MISSOURI BOULEVARD JEFFERSON CITY, MO, 65109 USA

**Sealed Source Data:**

Radionuclide	Activity	Serial No.	Certification Date	Assay Date	Leak Test Date	Troxler Drawing	Special Form Certificate	ANSI Class
CS-137	0.300 GBq (8000 mCi)	75-2574	2/12/1992	2/12/1992	1/17/2013	102112	GB/353/S85	C64444
AM-241:BE	1.480GBq (40.000 mCi)	47-17645	3/10/1992	3/10/1992	1/17/2013	102451	GB/7/S-85	C66544

**Notes:**

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**You should permanently retain this document as a record of gauge receipt.**

## Hill, Carol

---

**From:** Victoria Job <victoria@coresd.com>  
**Sent:** Monday, March 10, 2014 4:19 PM  
**To:** Hill, Carol  
**Subject:** RE: Nuclear Material License Change  
**Attachments:** NUREG-1556 Form.PDF

Carol,

Here is an attached copy of the Change of Control and/or Change of Ownership form. Should I mail of copy of this as well?

Thank you for your help.

*Victoria Job, EIT*

Core Engineering & Consulting, Inc.  
(605)234-2673 work  
(605)280-1375 cell

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**From:** Hill, Carol [<mailto:Carol.Hill@nrc.gov>]  
**Sent:** Tuesday, March 04, 2014 11:24 AM  
**To:** [victoria@coresd.com](mailto:victoria@coresd.com)  
**Cc:** Cook, Jackie  
**Subject:** RE: Nuclear Material License Change

Ms. Job,

In order to process a name change request we will need a completed Change of Control and/or Change of Ownership (includes Change of Name) form located in Appendix F of NUREG 1556, Vol. 15. For your convenience, I have attached a copy of the form.

If you have any questions or need additional information, please feel free to contact me.

Thank you,

**Carol L. Hill**, Licensing Assistant

Direct: 817-200-1140

Toll Free: 1-800-952-9677

Fax: 817-200-1083

E-mail: [Carol.Hill@nrc.gov](mailto:Carol.Hill@nrc.gov)

US Nuclear Regulatory Commission

1600 E. Lamar Blvd.

Arlington, TX 76011-4511

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**From:** Cook, Jackie  
**Sent:** Tuesday, March 04, 2014 10:40 AM

**Hill, Carol**

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**From:** Whitten, Jack  
**Sent:** Tuesday, March 04, 2014 11:05 AM  
**To:** Hill, Carol; Murnahan, Colleen  
**Subject:** RES: Nuclear Material License Change


Carol//

Name change request. No information to support. They will need Appendix F of INUREG 1556, Vol. 15. Might want to ship one out. May need to do partial amendment to get them back in compliance for authorized quantities.

Thx//JackW

Jack E. Whitten, Chief  
Nuclear Materials Safety Branch B  
Division of Nuclear Materials Safety  
Region IV/Nuclear Regulatory Commission  
1600 E. Lamar Blvd.  
Arlington, TX 76011-4511

 [jack.whitten@nrc.gov](mailto:jack.whitten@nrc.gov)

 817-200-1197 (Office)  
817-917-6215 (Cell)



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**From:** Cook, Jackie  
**Sent:** Tuesday, March 04, 2014 10:40 AM  
**To:** Hill, Carol  
**Cc:** Murnahan, Colleen; Roldan, Lizette; Hammond, Michelle; Torres, RobertoJ; Whitten, Jack  
**Subject:** FW: Nuclear Material License Change  
**Importance:** High

Carol:

Please set up this amendment request. It can go through the normal pre-scrub process.

Thanks,

Jackie

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**From:** Alldredge, Casey  
**Sent:** Tuesday, March 04, 2014 10:36 AM  
**To:** Whitten, Jack; Cook, Jackie; Roldan, Lizette; Hammond, Michelle; Torres, RobertoJ  
**Subject:** FW: Nuclear Material License Change  
**Importance:** High

Wasn't sure who I should send this to. Looks like the need a license amendment

---

**From:** Victoria Job [<mailto:victoria@coresd.com>]

**Sent:** Tuesday, March 04, 2014 8:29 AM

**To:** Alldredge, Casey

**Subject:** Nuclear Material License Change

Ms. Alldredge,

I am contacting you on behalf of Patrick Engels with Core Engineering & Consulting. We would like to have the license amended to show our purchase of 2 additional Nuclear devices. Also, our company has transitioned into an incorporation and we would like the license to reflect that. The attached letter has the specific information.

Please let me know if this letter needs to be mailed and If there is any additional information needed. Thank you

*Victoria Job, EIT*

Core Engineering & Consulting, Inc.

(605)234-2673 work

(605)280-1375 cell



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**Carol L. Hill**, Licensing Assistant

Direct: 817-200-1140

Toll Free: 1-800-952-9677

Fax: 817-200-1083

E-mail: [Carol.Hill@nrc.gov](mailto:Carol.Hill@nrc.gov)

US Nuclear Regulatory Commission

1600 E. Lamar Blvd.

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*Victoria Job, EIT*

Core Engineering & Consulting, Inc.

(605)234-2673 work

(605)280-1375 cell



DATE

03/17/2014

NAME AND ADDRESS OF APPLICANT AND/OR LICENSEE

Core Engineering & Consulting, LLC  
ATTN: Patrick J. Engels, P.E.  
Radiation Safety Officer  
P.O. Box 456  
Chamberlain, South Dakota 57325-0456

LICENSE NUMBER

40-29299-01

MAIL CONTROL NUMBER

583371

LICENSING AND/OR TECHNICAL REVIEWER

ch

This is to acknowledge the receipt of your:

☒ LETTER and/or ☐ APPLICATION DATED: 03/04/2014

The initial processing, which included an administrative review, has been performed.

☒ AMENDMENT ☐ TERMINATION ☐ NEW LICENSE ☐ RENEWAL

- ☐ There were no administrative omissions identified during our initial review.
- ☐ This is to acknowledge receipt of your application for renewal of the material(s) license identified above. Your application is deemed timely filed, and accordingly, the license will not expire until final action has been taken by this office.
- ☐ Your application for a new NRC license did not include your taxpayer identification number. Please fill out NRC Form 531, located at the following link:

<http://www.nrc.gov/reading-rm/doc-collections/forms/nrc531.pdf>

Send the completed NRC Form 531, by facsimile, to the following number: (301) 415-5387

A copy of your action has been emailed to our License Fee and Accounts Receivable Branch, in our Headquarters office in Rockville, MD. You will be contacted separately if there is a fee issue involved.

Your application has been assigned the above listed **MAIL CONTROL NUMBER**. When calling to inquire about this action, please refer to this control number. Your application has been forwarded to a technical reviewer. Please note that the technical review, which is normally completed within 180 days for a renewal application (90 days for all other requests), may identify additional omissions or require additional information. If you have any questions concerning the processing of your application, our contact information is listed below:

Region IV  
U. S. Nuclear Regulatory Commission  
DNMS/NMSB - B  
1600 E. Lamar Boulevard  
Arlington, TX 76011-4511  
(817) 200-1103 or (817) 200-1140

✓3/17/14

BETWEEN:

Accounts Receivable/Payable  
and  
Regional Licensing Branches

[ FOR ARPB USE ]  
INFORMATION FROM WBL

Program Code: 03121  
Status Code: Pending Amendment  
Fee Category: 3P  
Exp. Date: 06/30/2018  
Fee Comments:  
Decom Fin Assur Req'd: N

## License Fee Worksheet - License Fee Transmittal

### A. REGION

#### 1. APPLICATION ATTACHED

Applicant/Licensee: CORE ENGINEERING & CONSULTING LLC  
Received Date: 03/04/2014  
Docket Number: 3037747  
Mail Control Number: 583371  
License Number: 40-29299-01  
Action Type: Amendment

#### 2. FEE ATTACHED

Amount: \_\_\_\_\_

Check No.: \_\_\_\_\_

#### 3. COMMENTS

Signed: \_\_\_\_\_

Date: \_\_\_\_\_

*Carol L. Hice*  
*3/17/14*

### B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered / / )

1. Fee Category and Amount: \_\_\_\_\_

#### 2. Correct Fee Paid. Application may be processed for:

Amendment: \_\_\_\_\_

Renewal: \_\_\_\_\_

License: \_\_\_\_\_

3. OTHER \_\_\_\_\_  
\_\_\_\_\_

Signed: \_\_\_\_\_

Date: \_\_\_\_\_