



CONVERSATION RECORD

06/03/2015

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU Malek Smadi, Ph.D., P.E., Principal Engineer and proposed Radiation Safety Officer		DATE OF CONTACT 06/02/2015	TYPE OF CONVERSATION <input type="checkbox"/> E-MAIL <input checked="" type="checkbox"/> TELEPHONE <input type="checkbox"/> INCOMING <input checked="" type="checkbox"/> OUTGOING
E-MAIL ADDRESS msmadi@geotill.com	TELEPHONE NUMBER ext. 101 (317) 449-0033		

ORGANIZATION GEOTILL, Inc. 14074 Trade Center Drive, Suite 102 Fishers, IN 46038	DOCKET NUMBER(S) 030-38832
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LICENSE NUMBER(S) N/A	CONTROL NUMBER(S) 586573
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**SUBJECT**  
Our review of your April 14, 2015 new license application, your May 28, 2015 additional information letter, and our May 29, 2015 pre-licensing site visit conversation and tour. Additional information requested below is expected on or before June 16, 2015.

**SUMMARY AND ACTION REQUIRED:**  
To complete your new license application, please provide additional information noted below. If the applicant is unable to provide suitable additional documentation on or before June 16, 2015, the NRC requests that the applicant submit a request to withdraw the application. Note that such withdrawal would not prejudice any resubmission of the application at a later date. In addition, if adequate documentation is not received by June 16, 2015, the application at hand will be voided.

**PLEASE NOTE THE FOLLOWING WHEN PREPARING YOUR RESPONSE:**

- Submit requested information within 14 days of our June 2, 2015 conversation, as listed at the top of this memo.
- Direct any questions you have to me at (630) 829-9892 or sara.forster@nrc.gov.
- Provide your response on typed 8.5" x 11" sheets.
- Include a signed and dated cover letter with your response; reference Control No. 586573 in that response.
- Please FAX your response to my attention at (630) 515-1078 OR scan your response and send to me via email, as a pdf file.

**ADDITIONAL INFORMATION NEEDED:**

1. **REQUEST FOR RADIOACTIVE MATERIAL - SEALED SOURCES and DEVICES:** In your May 28, 2015, letter, you requested an authorization for a maximum total possession limit sufficient to acquire up to six portable nuclear gauges. However, based on conversations completed during our May 29, 2015 pre-licensing site visit (PLSV), we observed that your current plans would require no more than 1 to 2 portable nuclear gauges. Accordingly, please provide the following additional information:

- (1.1) Please confirm that the licensee will need an authorization for a maximum total possession limit of up to either 1 or 2 total portable nuclear gauges; and
- (1.2) Provide a specific manufacturer and model number for each gauge the licensee will possess and use for the purposes stated in the April 14, 2015 application.

**NAME OF PERSON DOCUMENTING CONVERSATION**  
Sara A. Forster, Materials Licensing Branch, Region III Office, 2443 Warrenville Road, Suite 210, Lisle, Illinois 60532

**SIGNATURE**  
*Sara A. Forster* 6/3/2015

CONVERSATION RECORD (continued)

M. Smadi

SUMMARY AND ACTION REQUIRED - ADDITIONAL INFORMATION NEEDED (Continued from page 1):

2. RADIATION SAFETY OFFICER (RSO) and AUTHORIZED USERS (AUs): In your May 28, 2015, letter, you indicated that your training and experience was limited to the online training certificate attached to the April 14, 2015 application. No hands-on practical experience has been submitted in support of your request. Further, in conversations completed during our May 29, 2015 PLSV, we observed that you have no designated individuals with adequate training and experience to perform AU duties under a radioactive materials license authorizing use of portable nuclear gauges. Prior to issuing a radioactive materials license, the NRC expects that the applicant will have at least one AU and one RSO on hand. Accordingly, please provide the following additional information: For the proposal to list you as the licensee's Radiation Safety Officer (RSO), please provide the following items:

(2.1) Documentation of names of AUs and RSOs including AUs and RSO training & experience, in accordance with criteria outlined in NUREG 1556 Vol. 1, rev. 1. Any such documentation must outline each individual's hands-on and practical training and experience using portable nuclear gauges.

(2.2) Current written memorandum of understanding/delegation of authority (MOU/DOA), signed by both you and a the designated RSO (if other than you), including specific duties, as included in the model MOU/DOA. In responding, you may use the MOU/DOA text in your May 28, 2015 letter or create a custom document.

3. OPERATING AND EMERGENCY PROCEDURES: From the May 29, 2015 PLSV, the NRC is unclear as to the RSO's readiness to respond to an emergency involving a portable nuclear gauge. Accordingly, please describe the steps the RSO would take to address an emergency situation involving a portable gauge.

4. The storage location provided in the application does not appear to be authorized for the storage of hazardous materials, including radioactive materials. Please provide an address and facility description for an area suitable for the storage of radioactive materials. Note that any ambiguity as to whether the area is authorized for the storage of radioactive materials by the lessor of that facility will require written documentation from the lessor of the planned use of that area and may require an interview by the NRC with the lessor concerning the lessor's understanding of that use.

NOTE: If suitable additional information is received by June 16, 2015, the NRC expects to visit the applicant's proposed storage facilities a second time, to confirm that they are suitable and authorized for the storage of radioactive materials by the lessor. In addition, the NRC expects that the applicant's transport vehicle and any proposed AUs will be available for the follow-up visit. Finally, the NRC expects to review the applicant's survey instrumentation (including instrument, purchase order, and/or agreement with other entity ensuring the applicant's access to suitable equipment), the applicant's planned radiation safety procedures, and other documentation demonstrating that the applicant has a clear and specific plan for using radioactive materials for the purposes stated in the application, and in accordance with NRC requirements.

## Forster, Sara

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**From:** Forster, Sara  
**Sent:** Wednesday, June 03, 2015 9:13 AM  
**To:** 'Malek Smadi'  
**Cc:** Kennedy, Erin  
**Subject:** Additional Information Request (second request) for GEOTILL, Inc., CN 586573  
**Attachments:** 03121.586573.New License NRC telecon2 signed.pdf

Please see attached for additional information needed to complete our review of your new license application.

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**From:** Malek Smadi [<mailto:msmadi@geotill.com>]  
**Sent:** Tuesday, June 02, 2015 2:50 PM  
**To:** Forster, Sara  
**Subject:** Re: Additional Information Request for GEOTILL, Inc., CN 586573

Sara,

Appreciated very much  
We will try to comply with your requests as much as we can

Thank you,

Malek Smadi, Ph.D., PE  
Principal Engineer  
GEOTILL, Inc.  
14074 Trade Center Drive, Suite 102  
Fishers, IN 46038  
T: (317) 449-0033 - Ext 101  
C: (317) 828-4098  
F: (317) 285-0609  
e-mail: [msmadi@geotill.com](mailto:msmadi@geotill.com)

On Jun 2, 2015, at 3:06 PM, Forster, Sara <[Sara.Forster@nrc.gov](mailto:Sara.Forster@nrc.gov)> wrote:

I will send you the written request tomorrow June 3<sup>rd</sup> morning. I apologize for the delay.

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**From:** Malek Smadi [<mailto:msmadi@geotill.com>]  
**Sent:** Tuesday, June 02, 2015 11:52 AM  
**To:** Forster, Sara  
**Subject:** RE: Additional Information Request for GEOTILL, Inc., CN 586573

ok

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**From:** Forster, Sara [<mailto:Sara.Forster@nrc.gov>]  
**Sent:** Tuesday, June 02, 2015 12:48 PM  
**To:** [msmadi@geotill.com](mailto:msmadi@geotill.com)  
**Subject:** RE: Additional Information Request for GEOTILL, Inc., CN 586573

1 pm central; 2 pm eastern.

**From:** Malek Smadi [mailto:[msmadi@geotill.com](mailto:msmadi@geotill.com)]  
**Sent:** Tuesday, June 02, 2015 11:48 AM  
**To:** Forster, Sara  
**Subject:** RE: Additional Information Request for GEOTILL, Inc., CN 586573

Sara,

I got your voicemail, is it at 1 pm our time or Illinois time?

Thank you,

Malek Smadi, Ph.D., PE  
Principal Engineer  
GEOTILL, Inc.  
14074 Trade Center Drive, Suite 102  
Fishers, IN 46038  
T: (317) 449-0033 - Ext 101  
C: (317) 828-4098  
F: (317) 285-0609  
e-mail: [msmadi@geotill.com](mailto:msmadi@geotill.com)  
[www.geotill.com](http://www.geotill.com)

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**From:** Forster, Sara [mailto:[Sara.Forster@nrc.gov](mailto:Sara.Forster@nrc.gov)]  
**Sent:** Monday, May 18, 2015 1:14 PM  
**To:** [msmadi@geotill.com](mailto:msmadi@geotill.com)  
**Subject:** Additional Information Request for GEOTILL, Inc., CN 586573

Dear Dr. Smadi:

See the attached file for additional information needed to complete the review of the new license application for the above referenced entity. Note that additional information is requested on or before June 1, 2015. Once we have received all required information, we will contact you to schedule a pre-licensing site visit, which is generally required prior to issuing a new U.S. Nuclear Regulatory Commission (NRC) radioactive materials license. Additional guidance may be found in NUREG 1556, Vol. 1, rev.1, "Program Program-Specific Guidance About Portable Gauge Licenses," which may be found at:  
<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/v1/r1>.

Submission of your response as a pdf file attached to an email or via facsimile will allow for the quickest processing. Do not hesitate to call me with any questions you may have, or if you will need additional time to complete your response.

Sincerely,

Sara A. Forster, Health Physicist Licensing Reviewer  
U.S. Nuclear Regulatory Commission - Region III  
Division of Nuclear Materials Safety  
2443 Warrenville Rd. - Ste. 210  
Lisle, IL 60532-4352  
[sara.forster@nrc.gov](mailto:sara.forster@nrc.gov)  
Direct: (630) 829-9892