



UNITED STATES  
**NUCLEAR REGULATORY COMMISSION**

REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, ILLINOIS 60532-4352

**TELEFAX TRANSMITTAL**

DATE July 7, 2011

NUMBER OF PAGES 8

SEND TO Miraj Mehta, Radiation Safety Officer

LOCATION Engineering Services, Inc. - NRC license 21-26742-01

FAX NUMBER (734) 525-7255

☐ VERIFY BY CALLING

FROM: Bill Reichhold  
(Sender)

TELEPHONE NUMBER (630) 829-9839

FAX NUMBER (630) 515-1078

If you do not receive the complete fax transmittal, please contact the sender as soon as possible at the telephone number provided above.

MESSAGE See accompanying documents.

**NOTICE**

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If the reader of this message is not the intended recipient or the employee responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you received this communication in error, please notify the sender immediately by telephone and return the original to the above address, by U.S. Mail. Thank You.

The following additional information is needed to review your renewal request.

We have reviewed your June 21, 2011, renewal request and find that we will need additional information to complete our review.

The U.S. Nuclear Regulatory Commission (USNRC) has issued NUREG- 1556, Volume 1, Revision 1, in November 2001 as "Program-Specific Guidance about Portable Gauge Licenses". The NUREG provides the necessary information needed to renew a portable gauge license. Your application did not sufficiently address all of the items in the NUREG guidance and you also referenced an old draft guide DG-008.

Please use the guidance in NUREG-1556, Volume 1, Revision 1, to complete your renewal application. Enclosed is a copy of the checklist for completing an application for a portable nuclear gauge. **Please resubmit** your renewal application using the enclosed checklist. This checklist and the guide may be found on the NRC website at <http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/v1/r1/sr1556v1r1.pdf>.

Please send a facsimile (630- 515-1078) of your response to the above within 7 days and refer to control 575457. Please call me at 630-829-9839 if you have any questions.

*In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this facsimile and the attached documents will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). The NRC's document system is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).*

From the desk of:

*Bill Reichhold*

TRANSMISSION VERIFICATION REPORT

TIME : 07/12/2011 19:08  
NAME : USNRC REGION3 DNMS  
FAX : 6305151259  
TEL :  
SER.# : 000A7J925770

DATE, TIME  
FAX NO./NAME  
DURATION  
PAGE(S)  
RESULT  
MODE

07/12 19:05  
17345257255  
00:02:28  
08  
OK  
STANDARD  
ECM



UNITED STATES  
**NUCLEAR REGULATORY COMMISSION**

REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, ILLINOIS 60532-4352

**TELEFAX TRANSMITTAL**

DATE July 7, 2011

NUMBER OF PAGES 8

SEND TO Miraj Mehta, Radiation Safety Officer

LOCATION Engineering Services, Inc. - NRC license 21-26742-01

FAX NUMBER (734) 525-7255

☐ VERIFY BY CALLING

FROM: Bill Reichhold  
(Sender)

TELEPHONE NUMBER (630) 829-9839

FAX NUMBER (630) 515-1078

If you do not receive the complete fax transmittal, please contact the sender as soon as possible at the telephone number provided above.

MESSAGE See accompanying documents.

TRANSMISSION VERIFICATION REPORT

TIME : 07/06/2011 20:32  
NAME : USNRC REGION3 DNMS  
FAX : 6305151259  
TEL :  
SER.# : 000A7J925770

DATE, TIME  
FAX NO./NAME  
DURATION  
PAGE(S)  
RESULT  
MODE

07/06 20:28  
17345257255  
00:03:11  
08  
OK  
STANDARD  
ECM



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, ILLINOIS 60532-4352

TELEFAX TRANSMITTAL

DATE July 7, 2011

NUMBER OF PAGES 8

SEND TO Miraj Mehta, Radiation Safety Officer

LOCATION Engineering Services, Inc. - NRC license 21-26742-01

FAX NUMBER (734) 525-7255

☐ VERIFY BY CALLING

FROM: Bill Reichhold  
(Sender)

TELEPHONE NUMBER (630) 829-9839

FAX NUMBER (630) 515-1078

If you do not receive the complete fax transmittal, please contact the sender as soon as possible at the telephone number provided above.

MESSAGE See accompanying documents.



UNITED STATES  
**NUCLEAR REGULATORY COMMISSION**

REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, ILLINOIS 60532-4352

**TELEFAX TRANSMITTAL**

DATE July 7, 2011

NUMBER OF PAGES 8

SEND TO Miraj Mehta, Radiation Safety Officer

LOCATION Engineering Services, Inc. - NRC license 21-26742-01

FAX NUMBER (734) 525-7255

☐ VERIFY BY CALLING

FROM: Bill Reichhold  
(Sender)

TELEPHONE NUMBER (630) 829-9839

FAX NUMBER (630) 515-1078

If you do not receive the complete fax transmittal, please contact the sender as soon as possible at the telephone number provided above.

MESSAGE See accompanying documents.

**NOTICE**

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If the reader of this message is not the intended recipient or the employee responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you received this communication in error, please notify the sender immediately by telephone and return the original to the above address, by U.S. Mail. Thank You.

The following additional information is needed to review your renewal request.

We have reviewed your June 21, 2011, renewal request and find that we will need additional information to complete our review.

The U.S. Nuclear Regulatory Commission (USNRC) has issued NUREG- 1556, Volume 1, Revision 1, in November 2001 as "Program-Specific Guidance about Portable Gauge Licenses". The NUREG provides the necessary information needed to renew a portable gauge license. Your application did not sufficiently address all of the items in the NUREG guidance and you also referenced an old draft guide DG-008.

Please use the guidance in NUREG-1556, Volume 1, Revision 1, to complete your renewal application. Enclosed is a copy of the checklist for completing an application for a portable nuclear gauge. **Please resubmit** your renewal application using the enclosed checklist. This checklist and the guide may be found on the NRC website at <http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/v1/r1/sr1556v1r1.pdf>.

Please send a facsimile (630- 515-1078) of your response to the above within 7 days and refer to control 575457. Please call me at 630-829-9839 if you have any questions.

*In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this facsimile and the attached documents will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). The NRC's document system is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).*

From the desk of:

  
Bill Reichhold

## **Appendix B**

### **Suggested Format for Providing Information Requested in Items 5 through 11**

# **ITEMS 5 AND 6: MATERIALS TO BE POSSESSED AND PROPOSED USES**

Yes	No	Radioisotope	Manufacturer or Distributor Model No.	Quantity	Use As Listed on SSD Certificate	Specify Other Uses Not Listed on SSD Certificate
		Cesium-137	Sealed source manufacturer or distributor and model number: _____ Device manufacturer or distributor and model number: _____	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes <input type="checkbox"/> Specific description of the gauge use: _____ _____ _____ _____ _____	<input type="checkbox"/> Not applicable _____ <input type="checkbox"/> Uses are: _____ (Submit safety analysis supporting safe use)
		Americium-241	Sealed source manufacturer or distributor and model number: _____ Device manufacturer or distributor and model number: _____	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes <input type="checkbox"/> Specific description of the gauge use: _____ _____ _____ _____ _____	<input type="checkbox"/> Not applicable _____ <input type="checkbox"/> Uses are: _____ (Submit safety analysis supporting safe use)



APPENDIX B

Yes	No	Radioisotope	Manufacturer or Distributor Model No.	Quantity	Use As Listed on SSD Certificate	Specify Other Uses Not Listed on SSD Certificate
		Californium-252	Sealed source manufacturer or distributor and model number: _____ Device manufacturer or distributor and model number: _____	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes <input type="checkbox"/> Specific description of the gauge use: _____ _____ _____ _____ _____	<input type="checkbox"/> Not applicable _____ <input type="checkbox"/> Uses are: _____ (Submit safety analysis supporting safe use)
		Other Isotope (Specify):	Sealed source manufacturer or distributor and model number: _____ Device manufacturer or distributor and model number: _____	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes <input type="checkbox"/> Specific description of the gauge use: _____	<input type="checkbox"/> Not applicable _____ <input type="checkbox"/> Uses are: _____ (Submit safety analysis supporting safe use)
		<i>Financial Assurance Required and Evidence of Financial Assurance Provided</i>				

# **ITEMS 7 THROUGH 11: TRAINING AND EXPERIENCE, FACILITIES AND EQUIPMENT, RADIATION SAFETY PROGRAM, AND WASTE DISPOSAL**

Item No. And Title	Suggested Response	Yes	Alternative Procedures Attached
<b>7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE – RADIATION SAFETY OFFICER</b>  Name: _____	Before obtaining licensed materials, the proposed RSO will have successfully completed one of the training courses described in Criteria in the section entitled "Individual(s) Responsible for Radiation Safety Program and Their Training and Experience – Radiation Safety Officer" in NUREG-1556, Vol. 1, Rev. 1, dated November 2001.	<input type="checkbox"/>	<input type="checkbox"/>
<b>8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS</b>	Before using licensed materials, authorized users will have successfully completed one of the training course described in Criteria in the section entitled "Training for Individuals Working In or Frequenting Restricted Areas" in NUREG-1556, Vol. 1, Rev 1, dated November 2001.	<input type="checkbox"/>	<input type="checkbox"/>
<b>9. FACILITIES AND EQUIPMENT</b>	No information needs to be submitted in response to this item; key issues are addressed under "Radiation Safety Program – Public Dose" and "Radiation Safety Program – Operating and Emergency Procedures."	<b>Separate Item 9 Response</b>  <b>Need Not Be Submitted With Application</b>	
<b>10. RADIATION SAFETY PROGRAM – AUDIT PROGRAM</b>	The applicant is <i>not</i> required to, and should not, submit its audit program to NRC for review during the licensing phase.	<b>Need Not Be Submitted With Application</b>	
<b>10. RADIATION SAFETY PROGRAM – TERMINATION OF ACTIVITIES</b>	The applicant is <i>not</i> required to submit a response to the termination of activities section during the initial application. However, when the license expires when the licensee ceases operation, NRC Form 314 must be submitted.	<b>Need Not Be Submitted With Application</b>	
<b>10. RADIATION SAFETY PROGRAM – SURVEY INSTRUMENTS</b>	We will either possess and use, or have access to and use, a radiation survey meter that meets the Criteria in the section entitled "Radiation Safety Program – Instruments" in NUREG-1556, Vol. 1, Rev. 1, dated November 2001.	<input type="checkbox"/>	<input type="checkbox"/>

## APPENDIX B

Item No. And Title	Suggested Response	Yes	Alternative Procedures Attached
10. RADIATION SAFETY PROGRAM – MATERIAL RECEIPT AND ACCOUNTABILITY	Physical inventories will be conducted at intervals not to exceed 6 months, to account for all sealed sources and devices received and possessed under the license.	<input type="checkbox"/>	<input type="checkbox"/>
10. RADIATION SAFETY PROGRAM – OCCUPATIONAL DOSIMETRY	Either we will maintain, for inspection by NRC, documentation demonstrating that unmonitored individuals are not likely to receive a radiation dose in excess of 10 percent of the allowable limits in 10 CFR Part 20, or we will provide dosimetry processed and evaluated by an NVLAP-approved processor that is exchanged at a frequency recommended by the processor.	<input type="checkbox"/>	<input type="checkbox"/>
10. RADIATION SAFETY PROGRAM – PUBLIC DOSE	The applicant is <i>not</i> required to submit a response to the public dose section during the licensing phase. This matter will be examined during an inspection.	Need Not Be Submitted With Application	
10. RADIATION SAFETY PROGRAM – OPERATING AND EMERGENCY PROCEDURES	We will implement and maintain the operating and emergency procedures in Appendix H of NUREG-1556, Vol. 1, Rev. 1, dated November 2001, and provide copies of these procedures to all gauge users and at each job site.	<input type="checkbox"/>	<input type="checkbox"/>
	<p style="text-align: center;"><b>OR</b></p> <p>Operating and emergency procedures will be developed, implemented, and maintained and will meet the criteria in the section entitled “Radiation Safety Program – Operating and Emergency Procedures” in NUREG-1556, Vol. 1, Rev. 1, dated November 2001.</p>	<input type="checkbox"/>	
10. RADIATION SAFETY PROGRAM – LEAK TEST	Leak tests will be performed at intervals approved by NRC or an Agreement State and specified in the Sealed Source and Device Registration Sheet. Leak tests will be performed by an organization authorized by NRC or an Agreement State to provide leak testing services for other licensees or using a leak test kit supplied by an organization authorized by NRC or an Agreement State to provide leak test kits to other licensees and according to the kit supplier’s instructions.	<input type="checkbox"/>	<input type="checkbox"/> <b>The information in Appendix J supporting a request to perform leak testing and sample analysis is attached.</b>

Item No. And Title	Suggested Response	Yes	Alternative Procedures Attached
<b>10. RADIATION SAFETY PROGRAM – MAINTENANCE</b>	<i>Routine Cleaning and Lubrication</i> We will implement and maintain procedures for routine maintenance of our gauges according to each manufacturer's recommendations and instructions.	<input type="checkbox"/>	<input type="checkbox"/>
	<i>Non-Routine Maintenance</i> We will send the gauge to the manufacturer or other person authorized by NRC or an Agreement State to perform non-routine maintenance or repair operations that require the removal of the source or source rod from the gauge.	<input type="checkbox"/>	<input type="checkbox"/> <b>The information listed in Appendix G supporting a request to perform non-routine maintenance in-house is attached.</b>
<b>10. RADIATION SAFETY PROGRAM – TRANSPORTATION</b>	The applicant is <i>not</i> required to submit its response to transportation during the licensing process. However, this issue will be reviewed during inspection.	<b>Need Not Be Submitted With Application</b>	
<b>11. WASTE MANAGEMENT – GAUGE DISPOSAL AND TRANSFER</b>	The applicant is <i>not</i> required to submit a response to waste management during the licensing process. However, the licensee should develop, implement, and maintain gauge transfer and disposal procedures in its radiation protection program.	<b>Need Not Be Submitted With Application</b>	