

Environmental, Mining & Site Development Services www.scientificengineers.com

March 16, 2005

Q-2 U. S. Nuclear Regulatory Commission, Region 1 **Division of Nuclear Materials Safety** Licensing Assistant Team ઝં 475 Allendale Road King of Prussia, PA 19406-1415 MAR Attn: Mr. Satter Lodhi 18 License No. 37-28570-01 RE: Docket No. 030-31879 RLJ Control #136541 36777 20: **Renewal to Current Materials License**

Dear Mr. Lodhi:

Earthtech, Inc. appreciates your help in processing our renewal application. As we discussed yesterday, (March 15, 2005) during our phone conversation, Earthtech, Inc., submits a "revised" NRC Form 313 along with supporting documentation as per NUREG 1556 Vol. 1, Rev. 1, Appendix B; for your review/approval.

Also, as per your request, the latest copies of Leak Test Analysis reports for the three (3) Nuclear Density Gauges we own are attached. As indicated on the Leak Test reports performed by North East Technical Services, Inc. and/or Troxler Electronic Laboratories, Inc., all gauges tested did not exceed 0.005 microCuries and therefore may remain in use. Due to no leakage found in any of our gauges during past and/or recent Leak Testing, Earthtech, Inc. wants to move the gauges to a new location and decommission our current storage facility area upon NRC approval of our Renewal Application.

Again, Earthtech, Inc. would like to thank you for your time in helping us expedite our renewal application. Please feel free to call if you have any questions or require additional information.

Sincerely,

Gennio a. Mall

Dennis A. Noll, R.S.O. EARTHTECH, INC.

136777 NMSS/RGNI MATERIALS-002

Mailing Address:	336 Bloomfield St., Suite 201	Office Numbers:	Johnstown:	(814) 266-6402	FAX:	(814) 266-6530
	Johnstown PA 15904		Uniontown:	(724) 439-1313	FAX:	(724) 439-0633
			Somerset:	(814) 443-3384		

NRC FORM 313 U.S. NUCLEAR REGULATORY COM (4-2004)	MISSION APPR	ed burden per response to comply with this mandatory collection request: 7
10 CFR 30, 32, 33, 34, 35, 36, 39, and 40	hours. qualifie	Submittal of the application is necessary to determine that the applicant is and that adequate procedures exist to protect the public health and safety.
(04, 00, 00, 03, and 40	Send o Branch	omments regarding burden estimate to the Records and FOIA/Privacy Services (T-5 F52) U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001.
	or by i	nternet e-mail to infocollects@nrc.gov, and to the Desk Officer, Office of tion and Regulatory Affairs, NEOR 10202 (3150-0120), Office of Management
APPLICATION FOR MATERIAL LICEN	ISE and B	dget, Washington, DC 20503. If a means used to impose an information
	condu	on does not display a currently valid OMB control number, the NRC may not t or sponsor, and a person is not required to respond to, the information
INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICA		R DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION.
SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICAT APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATION	SWITH: IF YOU	COFFICE SPECIFIED BELOW.
DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY		INDIANA KOWA MICHIGAN MINNESOTA MISSOURI OHIO OR WISCONSIN SEM
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS	APPLIC	TIONS TO:
WASHINGTON, DC 20555-0001	MAT	RIALS LICENSING BRANCH
	U.S. 2443	IUCLEAR REGULATORY COMMISSION, REGION III WARRENVILLE ROAD, SUITE 210
ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:	LISL	, IL 60532-4352
IF YOU ARE LOCATED IN:		
ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, G	EORGIA, ALASKA	ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS,
JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHC	DE OREGO	I, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON,
ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLAN WEST VIRGINIA, SEND APPLICATIONS TO:	DS, OR OR WYC	MING, SEND APPLICATIONS TO:
LICENSING ASSISTANCE TEAM	NUC	EAR MATERIALS LICENSING BRANCH
DIVISION OF NUCLEAR MATERIALS SAFETY	U.S. 611 F	UCLEAR REGULATORY COMMISSION, REGION IV
475 ALLENDALE ROAD KING OF DRUSSIA DA 19405 1415	ARLI	IGTON, TX 76011-4005
PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.	S. NUCLEAR REGUL	TORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED
MATERIAL IN STATES SUBJECT TO U.S.NUCLEAR REGULATORY COMMISSION	N JURISDICTIONS.	
1. THIS IS AN APPLICATION FOR (Check appropriate item)	2. NAMI	AND MAILING ADDRESS OF APPLICANT (Include ZIP code)
A. NEW LICENSE	Ear	htech, Inc.
B. AMENDMENT TO LICENSE NUMBER	102	1 Femdale Avenue
3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED	4. NAME	OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION
Licensed materials will be used at the address listed in and at temporary job sites throughout the United States	item 2 Dei	nis A. Noll
and at temporary job sites throughout the Onited States	TELE	PHONE NI MRER
	(04	
	(8)	4) 200-0402
SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE C	F INFORMATION TO	E PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.
 RADIOACTIVE MATERIAL Element and mass number; b. chemical and/or physical form; and c. maiximum 	amount 6. PURF	OSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.
which will be possessed at any one time.		
7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THE TRAINING EXPERIENCE.	IR 8. TRAII	ING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.
9. FACILITIES AND EQUIPMENT.	10. RAD	ATION SAFETY PROGRAM.
11 WASTE MANAGEMENT	12. LICE	NSE FEES (See 10 CFR 170 and Section 170.31)
	FEE	CATEGORY 3P AMOUNT \$ 0.00
 CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERS UPON THE APPLICANT. 	TANDS THAT ALL ST	TEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING
THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON E		CANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN
CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.	, uz, uu, um, uu, uu, uu, u	
WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MA ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTI	KES IT A CRIMINAL C ER WITHIN ITS JURISI	FENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO HOTION. Λ
CERTIFYING OFFICER TYPED/PRINTED NAME AND TITLE	SIGNATI	RE 1 M. DATE
Dennis A. Noll, President/RSO		Nemme U. 1922 3/16/05
	OR NRC USE	DNLY
S	UNCUK NUMBEI	
APPROVED BY	DATE	
NRC FORM 313 (4-2004)	÷	PRINTED ON RECYCLED PAPER
		126111
		NMSS/RGNI MATERIALS-002

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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: Troxler 3400 Series Nuclear Density Gauges	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes Specific description of the gauge use:	 Not applicable Uses are: (Submit safety analysis supporting safe use)
1		Americium- 241	Sealed source manufacturer or distributor and model number: Device manufacturer or distributor and model number: Troxler 3400 Series Nuclear Density Gauges	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes Specific description of the gauge use:	 Not applicable 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 Specific description of the gauge use:	□ Not applicable □ Uses are: (Submit safety analysis supporting safe use)
	 Image: A start of the start of	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 Specific description of the gauge use:	□ Not applicable □ Uses are: (Submit safety analysis supporting safe use)

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
7.	INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE – RADIATION SAFETY OFFICER	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.		D
Nar	ne: Dennis A. Noll			
8.	TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS	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.	•	
9.	FACILITIES AND EQUIPMENT	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."	Separate Item 9 Response Need Not Be Submitted With Application	
10.	RADIATION SAFETY PROGRAM – AUDIT PROGRAM	The applicant is <i>not</i> required to, and should not, submit its audit program to NRC for review during the licensing phase.	Need No With Ap	ot Be Submitted oplication
10.	RADIATION SAFETY PROGRAM – TERMINATION OF ACTIVITIES	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.	Need No With Ap	ot Be Submitted oplication
10.	RADIATION SAFETY PROGRAM – SURVEY INSTRUMENTS	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.		0

APPENDIX B

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	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.		
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.		
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.		
		OR		
		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.		
10.	RADIATION SAFETY PROGRAM – LEAK TEST	Leak tests will be performed at intervals approved by NRC or an Agreement Sate 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.		The information in Appendix J supporting a request to perform leak testing and sample analysis is attached.

APPENDIX B

Item No. And Title	Suggested Response	Yes	Alternative Procedures Attached
10. RADIATION SAFETY PROGRAM – MAINTENANCE	Routine Cleaning and Lubrication We will implement and maintain procedures for routine maintenance of our gauges according to each manufacturer's recommendations and instructions. Non-Routine Maintenance	Ð	0
	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.		The information listed in Appendix G supporting a request to perform non-routine maintenance in-house is attached.
10.RADIATION SAFETY PROGRAM – TRANSPORTATION	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.	Need No With Ap	ot Be Submitted oplication
11. WASTE MANAGEMENT – GAUGE DISPOSAL AND TRANSFER	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.	Need No With Ap	ot Be Submitted oplication

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North East Technical Services, Inc. 1280 Landing Lane, Suite 3 Westminster, MD 21157 Ph: 410.751.5090 Fax: 410.751.5091

Earth Tech, Inc. 336 Bloomfield St., Suite 201 Johnstown, PA 15904 ATTN: Thomas Matisko

LEAK TEST CERTIFICATE

MD Materials License # MD-13-020-01

This certifies that leak test analysis was conducted on the sample with the following information. The results shown below accurately represent the level of removeable contamination.

Gauge Model	3430	Gauge S/N	21332	Leak Test Date	2/18/2005
S	Source		Reading in mic	roCuries	
7	75-2840		0.0000562		
4	7-16589		0.00000		

Note: 0.005 microCuries (185 Bq) or greater is considered a leaking source. The source(s) tested above may remain in use.

Dough Sins **Reviewed by:**

2/18/05 Date:

Friday, February 18, 2005



North East Technical Services, Inc. 1280 Landing Lane, Suite 3 Westminster, MD 21157 Ph: 410.751.5090 Fax: 410.751.5091

Earth Tech, Inc. 336 Bloomfield St., Suite 201 Johnstown, PA 15904 ATTN: Thomas Matisko

LEAK TEST CERTIFICATE

MD Materials License # MD-13-020-01

This certifies that leak test analysis was conducted on the sample with the following information. The results shown below accurately represent the level of removeable contamination.

Gauge Model	3440	Gauge S/N	26033	Leak Test Date	3/4/2005
	Source		Reading in n	nicroCuries	
	75-9029		0.0000218		
	47-22414		0.0000		

Note: 0.005 microCuries (185 Bq) or greater is considered a leaking source. The source(s) tested above may remain in use.

Dough Sime Reviewed by:

Date: 3-4-05

Friday, March 04, 2005



Troxler Electronic Laboratories, Inc.

3008 Cornwallis Rd., P.O. Box 12057 Research Triangle Park, NC 27709 Tel: (877) 876-9537 Fax: (919) 485-2250

License: NC 032-0182-1

LEAK TEST CERTIFICATE

DEVICE:

Model: 3440 Serial No: 19083

SEALED SOURCES:

			ACTIVITY		
SERIAL NO.	MEASURE DATE	NUCLIDE	(GBq)	(mCi)	
47-14547	5/14/1990	AM-241:BE	1.48	40	
50-8723	4/10/1990	CS-137	0.296	8	

LEAK TEST ANALYSIS:

Sample collected on: 01/19/2005

Sample analyzed on: 01/24/2005 at 11:53:00 AM

Analyzed by: J.OLSEN

	ALPHA	BETA-GAMMA
Conversion factor (cpm/Bq)	1.30E+01	2.09E+01
Background measurement (cpm)	0	24
Sample measurement (cpm)	0	16
Activity (Bq)	< MDA	< MDA
Min. Detectable Activity (Bq)	4.4E-01	1.2E+00

This certifies that the above leak test results are: ☑ Less than 185 Bq (0.005 uCi)	
If greater than 185 Bq (0.005 uCi):	
Person Notified Date	
Phone and/or Fax	

This is to acknowledge the receipt of your letter/application dated

311,12005, and to inform you that the initial processing which includes an administrative review has been performed.

Renew

Kenew 37-28570-01 There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned Mail Control Number ________ When calling to inquire about this action, please refer to this control number. You may call us on (610) 337-5398, or 337-5260.

NRC FORM 532 (RI) (6-96)

Sincerely, Licensing Assistance Team Leader

	: (FOR LFMS USE)
BETWEEN:	: INFORMATION FROM LTS
	:
	:
License Fee Management Branch, ARM	: Program Code: 03121
and	: Status Code: 2
Regional Licensing Sections	: Fee Category: 3P
	: Exp. Date: 20150331
	: Fee Comments:
	: Decom Fin Assur Regd: N

LICENSE FEE TRANSMITTAL

1. APPLICATION ATTACHED Applicant/Licensee: EARTHTECH, INC. Received Date: 20050318

necerved bace.	20050318
Docket No:	3031879
Control No.:	136777
License No.:	37-28570-01
Action Type:	Renewal

- 2. FEE ATTACHED Amount: Check No.:
- 3. COMMENTS

Signed Date when

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

1. Fee Category and Amount: _____

 Correct Fee Paid. Application may be processed for: Amendment _____

- Renewal _____
- 3. OTHER

Signed ______ Date _____