

6/08/17



J-4

Mr. John J. Miller
U.S.N.R.C.

16-31238-01
03037448

Mr. Miller,

I am writing to inform you that we would like to cancel our NRC license, due to our company only using the nuclear gauges in Kentucky. We have a Radioactive Material License in the state of Kentucky, which I have attached with this letter. The control No. for this case is 599639.

If you have any questions regarding this matter, feel free to contact me at (606) 789-0320.

Thank you,

Ralph Steel, Jr.

REC'D IN LAT. 06/09/17

599639
NMSS/RGN1 MATERIALS-002

SEALED SOURCE LEAK TEST CERTIFICATE

Mountain Enterprises, Inc. 8752A Route 321 South Hager Hill, KY 41222	Attn: Mr. Rob Hill phone: 304\697-1151 code: 689
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SOURCE INFORMATION	
Isotope Cesium 137	Am 241/Be
Source Serial Number 75 - 3559	47 - 17311
Activity 8 mCi	40 mCi
Make & Model Troxler 3430	
Device Number 21969	
Wiped by	Date of Wipe 03/31/2017

<u>RESULTS</u>				
	Bkg CPM	Gross CPM	Efficiency	removable activity for this source is
Alpha	0	0	0.62	< 0.0001 μCi
Beta-Gamma	30	< 60	0.32	< 0.0001 μCi
<i>removable is < 0.005 μCi</i>				PASS

The above source wipe has been assayed to determine source leakage. Regulations define a source as leaking when an appropriate wipe test has removed 0.005 uCi or more of activity.

Microcurie conversion is DPM / 2.2 X10⁶

all sources are simultaneously checked for alpha and beta-gamma activity

April 9, 2017 <hr style="width: 80%; margin: 0 auto;"/> Date of Assay	7099.202 <hr style="width: 80%; margin: 0 auto;"/> NSS assay No.	Greg Fox Assayed by
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SEALED SOURCE LEAK TEST CERTIFICATE

Mountain Enterprises, Inc. 8752A Route 321 South Hager Hill, KY 41222	Attn: Mr. Rob Hill phone: 304697-1151 code: 689
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SOURCE INFORMATION	
Isotope	Cesium 137
Source Serial Number	750 - 3245
Activity	8 mCi
Make & Model	Troxler 4640 B thin lift
Device Number	2048
Wiped by	Date of Wipe 03/31/2017

<u>RESULTS</u>				
	Bkg CPM	Gross CPM	Efficiency	removable activity for this source is
Alpha	0	0	0.62	< 0.0001 μCi
Beta-Gamma	30	< 60	0.32	< 0.0001 μCi
<i>removable is < 0.005 μCi</i>				PASS

The above source wipe has been assayed to determine source leakage. Regulations define a source as leaking when an appropriate wipe test has removed 0.005 uCi or more of activity.

Microcurie conversion is DPM / 2.2 X10⁶

all sources are simultaneously checked for alpha and beta-gamma activity

April 9, 2017	7099.203	
Date of Assay	NSS assay No.	Assayed by

SEALED SOURCE LEAK TEST CERTIFICATE

Mountain Enterprises, Inc. 8752A Route 321 South Hager Hill, KY 41222	Attn: Mr. Rob Hill phone: 304697-1151 code: 689
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SOURCE INFORMATION	
Isotope Cesium 137	Am 241/Be
Source Serial Number 750 - 4333	47 - 26917
Activity 8 mCi	40 mCi
Make & Model Troxler 3440	
Device Number 29939	
Wiped by David Williams	Date of Wipe 03/31/2017

<u>RESULTS</u>				
	Bkg CPM	Gross CPM	Efficiency	removable activity for this source is
Alpha	0	0	0.62	< 0.0001 μ Ci
Beta-Gamma	30	< 60	0.32	< 0.0001 μ Ci
<i>removable is < 0.005 μCi</i>				PASS

The above source wipe has been assayed to determine source leakage. Regulations define a source as leaking when an appropriate wipe test has removed 0.005 μ Ci or more of activity.

Microcurie conversion is DPM / 2.2 X10⁶

all sources are simultaneously checked for alpha and beta-gamma activity

April 9, 2017 <hr style="width: 80%; margin: 0 auto;"/> Date of Assay	7099.201 <hr style="width: 80%; margin: 0 auto;"/> NSS assay No.	Greg Fox Assayed by
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CABINET FOR HEALTH SERVICES
COMMONWEALTH OF KENTUCKY
RADIOACTIVE MATERIAL LICENSE

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1. LICENSEE AND 2. ADDRESS

MOUNTAIN ENTERPRISES, INC.
8752A RT. 321 SOUTH
HAGER HILL, KY 41222

ATTENTION: KEITH BISHOP, RSO
TELEPHONE: 606-789-0320

PURSUANT TO KRS 211.842 ET SEQ., THE KENTUCKY CABINET FOR HUMAN RESOURCES REGULATIONS, 902 KAR 100, AND IN RELIANCE ON STATEMENTS AND REPRESENTATIONS HERETOFORE MADE BY THE LICENSEE, A LICENSE IS HEREBY ISSUED TO RECEIVE, ACQUIRE, OWN, POSSESS AND TRANSFER RADIOACTIVE MATERIAL LISTED BELOW; AND TO USE SUCH RADIOACTIVE MATERIAL FOR THE PURPOSE(S) AND AT THE PLACE(S) DESIGNATED BELOW. THIS LICENSE IS SUBJECT TO ALL APPLICABLE RULES, REGULATIONS, AND ORDERS OF THE CABINET FOR HEALTH SERVICES, NOW OR HEREINAFTER IN EFFECT AND TO ANY CONDITIONS SPECIFIED BELOW.

3. LICENSE NUMBER: 201-447-51
AMENDMENT NO. 33
AMENDS IN ITS ENTIRETY

4. EXPIRATION DATE: MARCH 31, 2018

5. REVIEWER: 84

6. LICENSED MATERIAL	7. FORM	8. POSSESSION LIMIT
A. CESIUM-137	A. SEALED SOURCE (Troxler Drawing #A-102112)	A. NO SINGLE SOURCE TO EXCEED 9 MILLI-CURIES; NUMBER OF SOURCES NOT TO EXCEED 12
B. AMERICIUM-241/ BERYLLIUM	B. SEALED SOURCE (Troxler Drawing #A-102451)	B. NO SINGLE SOURCE TO EXCEED 44 MILLI-CURIES; NUMBER OF SOURCES NOT TO EXCEED 10

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C. AMERICIUM-241/ C. SEALED SOURCE C. NO SINGLE SOURCE TO
 BERYLLIUM (TROXLER DRAWING EXCEED 330 MILLI-
 #A-100337) CURIES; NUMBER OF
 SOURCES NOT TO
 EXCEED 2

9. AUTHORIZED USE

- A. AND B. FOR USE IN TROXLER MODEL 3400 SERIES MOISTURE/DENSITY GAUGES FOR MEASUREMENT OF MOISTURE AND DENSITY OF SOILS.
- A. FOR USE IN TROXLER MODEL 4640 MOISTURE/DENSITY GAUGES FOR MEASUREMENT OF MOISTURE AND DENSITY OF SOILS.
- C. FOR USE IN A TROXLER MODEL 3241-C MOISTURE/DENSITY GAUGES FOR MEASUREMENT OF MOISTURE AND DENSITY OF SOILS.

CONDITIONS:

10. THE LICENSEE SHALL COMPLY WITH THE PROVISIONS OF THE KENTUCKY CABINET FOR HEALTH SERVICES ADMINISTRATIVE RADIATION REGULATIONS, 902 KAR 100.
11. RADIOACTIVE MATERIAL MAY BE STORED AT:
8752 ROUTE 321 SOUTH
HAGER HILL, KY 41222
- RADIOACTIVE MATERIAL MAY BE USED AT TEMPORARY JOB SITES, IN AREAS NOT UNDER EXCLUSIVE FEDERAL JURISDICTION, ANYWHERE IN THE COMMONWEALTH OF KENTUCKY WHERE THE CABINET MAINTAINS JURISDICTION FOR REGULATING THE USE OF RADIOACTIVE MATERIAL. (THIS CONDITION DOES NOT PROHIBIT USE IN OTHER STATES UNDER RECIPRO-CITY PRIVILEGES WHICH MAY BE GRANTED BY THE REGULATORY AGENCY HAVING JURISDICTION.)
12. COPIES OF RECORDS REQUIRED PURSUANT TO 902 KAR 100 OR CONDITIONS OF THE LICENSE SHALL BE MAINTAINED FOR INSPECTION BY THE CABINET AT 8752 ROUTE 321 SOUTH, HAGER HILL, KY 41222
13. RADIOACTIVE MATERIAL SHALL BE USED BY, OR UNDER THE DIRECT SUPERVISION AND IN THE PHYSICAL PRESENCE OF INDIVIDUALS WHO HAVE SUCCESSFULLY COMPLETED THE MANUFACTURER'S TRAINING PROGRAM FOR GAUGE USERS OR EQUIVALENT TRAINING PROGRAM FOR GAUGE USERS AS APPROVED BY THE NRC OR AN AGREEMENT STATE, HAVE BEEN INSTRUCTED IN THE LICENSEE'S ROUTINE AND EMERGENCY OPERATING PROCEDURES AND WHO HAVE BEEN DESIGNATED, IN WRITING, BY THE RADIATION SAFETY OFFICER. THE LICENSEE SHALL MAINTAIN RECORDS

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- OF INDIVIDUALS DESIGNATED AS USERS AND THEIR TRAINING FOR THREE (3) YEARS FOLLOWING THE LAST USE OF RADIOACTIVE MATERIAL BY THE INDIVIDUAL.
14. THE RADIATION SAFETY OFFICER FOR THE ACTIVITIES AUTHORIZED BY THIS LICENSE IS KEITH BISHOP .
 15. TESTS FOR LEAKAGE AND/OR CONTAMINATION, LIMITED TO LEAK TEST SAMPLE COLLECTION, SHALL BE PERFORMED BY THE LICENSEE OR BY OTHER PERSONS SPECIFICALLY AUTHORIZED BY THE CABINET, U.S. NUCLEAR REGULATORY COMMISSION OR AN AGREEMENT STATE. THE LICENSEE IS NOT AUTHORIZED TO PERFORM THE ANALYSIS; ANALYSIS OF LEAK TEST SAMPLES MUST BE PERFORMED BY PERSONS SPECIFICALLY AUTHORIZED BY THE CABINET, U.S. NUCLEAR REGULATORY COMMISSION OR AN AGREEMENT STATE TO PERFORM SUCH SERVICES.
 16. TEST FOR LEAKAGE AND/OR CONTAMINATION SHALL NOT EXCEED INTERVALS OF SIX (6) MONTHS FOR RADIOACTIVE MATERIALS AUTHORIZED FOR POSSESSION UNDER THIS LICENSE UNLESS SPECIFICALLY GRANTED AN EXTENDED INTERVAL BY THIS LICENSE.
 17. TESTS FOR LEAKAGE AND/OR CONTAMINATION SHALL NOT EXCEED INTERVALS OF TWELVE (12) MONTHS FOR:
 - A) TROXLER MODEL 3400 SERIES
 - B) TROXLER MODEL 4640
 - C) TROXLER MODEL 3241-C
 18. IN THE ABSENCE OF A CERTIFICATE FROM A TRANSFEROR, INDICATING THAT A LEAK TEST HAS BEEN MADE WITHIN SIX (6) MONTHS PRIOR TO TRANSFER, THE SEALED SOURCE RECEIVED FROM ANOTHER PERSON SHALL NOT BE PUT IN USE UNTIL TESTED AND THE TEST RESULTS RECEIVED.
 19. SEALED SOURCES CONTAINING RADIOACTIVE MATERIAL SHALL NOT BE OPENED OR REMOVED FROM THEIR RESPECTIVE SOURCE HOLDERS BY THE LICENSEE.
 20. WHEN PERFORMING TESTS AT TEMPORARY JOB SITES, THE AUTHORIZED USER SHALL NOT LEAVE THE MOISTURE/DENSITY GAUGE UNATTENDED. UPON COMPLETION OF TESTS, THE DEVICE SHALL BE LOCKED IN THE LICENSEE'S VEHICLE OR A SECURE BUILDING TO PREVENT UNAUTHORIZED USE, LOSS OR THEFT.

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21. ANY CLEANING, MAINTENANCE OR REPAIR OF THE GAUGE(S) INVOLVING REMOVAL OF THE SOURCE ROD FROM THE DEVICES OR REMOVAL OR DISMANTLING OF SHIELDING SHALL BE PERFORMED ONLY BY THE MANUFACTURER OR BY OTHER PERSONS SPECIFICALLY AUTHORIZED BY THE CABINET, THE U.S. NUCLEAR REGULATORY COMMISSION OR AN AGREEMENT STATE TO PERFORM SUCH SERVICES.
22. EACH PORTABLE GAUGE SHALL HAVE A LOCK OR OUTER LOCKED CONTAINER DESIGNED TO PREVENT UNAUTHORIZED OR ACCIDENTAL REMOVAL OF THE SEALED SOURCE FROM ITS SHIELDED POSITION. THE GAUGE OR ITS CONTAINER MUST BE LOCKED WHEN IN TRANSPORT, STORAGE OR WHEN NOT UNDER THE DIRECT SURVEILLANCE OF AN AUTHORIZED USER.
23. THE LICENSEE SHALL CONDUCT A PHYSICAL INVENTORY EVERY SIX (6) MONTHS TO ACCOUNT FOR ALL SEALED SOURCES RECEIVED AND POSSESSED UNDER THE LICENSE. THE RECORDS OF THE INVENTORIES SHALL BE MAINTAINED FOR THREE (3) YEARS FROM THE DATE OF THE INVENTORY FOR INSPECTION BY THE CABINET, AND SHALL INCLUDE THE RADIONUCLIDES, QUANTITIES, MANUFACTURER'S NAME AND MODEL NUMBERS, LOCATION OF SEALED SOURCES, THE DATES OF THE INVENTORY, AND THE NAME OF THE INDIVIDUAL CONDUCTING THE INVENTORY.
24. THE LICENSEE MAY TRANSPORT RADIOACTIVE MATERIAL, OR DELIVER RADIOACTIVE MATERIAL TO A CARRIER FOR TRANSPORT, IN ACCORDANCE WITH THE PROVISIONS OF 902 KAR 100:070, AND OTHER DEPARTMENTS OF THE COMMONWEALTH OF KENTUCKY HAVING JURISDICTION.
25. IN ADDITION TO THE POSSESSION LIMITS IN ITEM 8, THE LICENSEE SHALL FURTHER RESTRICT THE POSSESSION OF RADIOACTIVE MATERIAL TO QUANTITIES BELOW THE MINIMUM LIMIT SPECIFIED IN 902 KAR 100:042, SECTION 11, FOR ESTABLISHING DECOMMISSIONING FINANCIAL ASSURANCE.
26. IN ADDITION TO THE POSSESSION LIMITS SPECIFIED IN ITEM 8, THE LICENSEE SHALL FURTHER RESTRICT POSSESSION OF RADIOACTIVE MATERIAL, IN AGGREGATED QUANTITIES; BELOW THE CATEGORY 2 VALUE (IN TERABECQUERELS) SPECIFIED IN APPENDIX A, TABLE 1 - "CATEGORY 1 AND CATEGORY 2 THRESHOLD" OF 10 CFR 37 "PHYSICAL PROTECTION OF CATEGORY 1 AND CATEGORY 2 QUANTITIES OF RADIOACTIVE MATERIAL".
27. THIS LICENSE AND THE RIGHT TO POSSESS OR UTILIZE RADIOACTIVE MATERIAL GRANTED BY THIS LICENSE ISSUED UNDER 902 KAR CHAPTER 100 SHALL NOT BE TRANSFERRED, ASSIGNED, OR OTHERWISE DISPOSED OF, THROUGH TRANSFER OF CONTROL OF A LICENSE TO A PERSON UNLESS THE CABINET, AFTER SECURING FULL INFORMATION, FINDS THAT THE TRANSFER IS IN ACCORDANCE WITH THE REQUIREMENTS OF 902 KAR CHAPTER 100 AND GIVES ITS CONSENT IN WRITING IN

CABINET FOR HEALTH SERVICES
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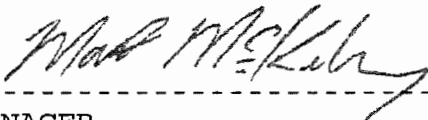
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ACCORDANCE WITH 902 KAR 100:040, SECTION 11.

28. EXCEPT AS SPECIFICALLY PROVIDED OTHERWISE IN THIS LICENSE, THE LICENSEE SHALL CONDUCT ITS PROGRAM IN ACCORDANCE WITH THE STATEMENTS, REPRESENTATIONS, AND PROCEDURES CONTAINED IN THE DOCUMENTS, INCLUDING ANY ENCLOSURES, LISTED BELOW. THE CABINET FOR HEALTH SERVICES REGULATIONS, 902 KAR 100, SHALL GOVERN UNLESS STATEMENTS, REPRESENTATIONS, AND PROCEDURES IN THE LICENSEE'S APPLICATION AND CORRESPONDENCE ARE MORE RESTRICTIVE THAN THE REGULATION.
- A. APPLICATION DATED MAY 20, 2012, SIGNED BY KEITH BISHOP, RSO.
- B. LETTER DATED OCTOBER 14, 2014, SIGNED BY BLAKE GILLEY, PRESIDENT AND KEITH BISHOP, RSO (GRANTING SIGNATURE OF AUTHORITY).



MANAGER
RADIATION HEALTH BRANCH

VICKIE YATES BROWN GLISSON

SECRETARY
CABINET FOR HEALTH AND FAMILY
SERVICES

DATE ISSUED MARCH 6, 2017