

Br. 2

NRC FORM 313 <small>(04-2016)</small> <small>10 CFR 30.32, 33, 34</small> <small>35, 36, 37, 39, and 40</small>	<b>U.S. NUCLEAR REGULATORY COMMISSION</b>   <b>APPLICATION FOR MATERIALS LICENSE</b>	APPROVED BY OMB: NO. 3150-0120 EXPIRES: 04/30/2016 <small>Estimated burden per response to comply with this mandatory collection request: 4.5 hours. Submitter of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the FOIA, Privacy, and Information Collections Branch (7-6 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by e-mail to: info@nrc.gov and to the Desk Officer, Office of Information and Regulatory Affairs, (HSEB-10202) (3150-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.</small>																		
<b>INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW. *AMENDMENTS/RENEWALS THAT INCREASE THE SCOPE OF THE EXISTING LICENSE TO A NEW OR HIGHER FEE CATEGORY WILL REQUIRE A FEE.</b>																				
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<b>PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.</b>																				
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**Alpha Natural Resources**

April 29, 2016

Licensing Assistance Team  
Division of Nuclear Materials Safety  
U.S. Nuclear Regulatory Commission, Region I  
2100 Renaissance Boulevard, Suite 100  
King of Prussia, PA 19406-2713

**Re: *Spartan Mining Company***  
***dba Mammoth Coal Company***  
***Renewal in Entirety - SL 47-23091-02***

Enclosed please find the NRC Form 313 **Application for Renewal in Entirety**. Spartan Mining Company, dba Mammoth Coal Company is the license holder of **Specific License 47-23091-02** for our Mammoth Coal Processing Plant. The Mammoth Coal Processing Plant is located at 11720 East Dupont Avenue (Rte. 60), London, WV 25126. All correspondence for this license should be directed to:

**Spartan Mining Company, dba Mammoth Coal Company**  
**P.O. Box 150 Cannelton, West Virginia 25036**  
**Office Phone: 304-595-3243 Plant Phone: 304-442-8168**

Spartan Mining Company would like the appointment of William G. Newsome as the Radiation Safety Officer for this license. We delegate the authority to William G. Newsome to act on behalf of Spartan Mining Company in matters concerning this license. We would like to submit the following two (2) locations where licensed material will be used or possessed:

- Location #1- Mammoth Coal Processing Plant, 11720 East Dupont Ave., Route 60, London, WV 25126.
- Location #2- Mammoth Coal Belt Transfer, 5493 Kelley's Creek Road, Mammoth, WV 25132.

Included with this request are the following supporting attachments:

- Attachment 1 - Form 313 Application for Renewal
- Attachment 2 - Table B.1 (Lines 5&6)
- Attachment 3 - Table B.2 (Lines 7-11)
- Attachment 3 - Inventory & Use Spreadsheet
- Attachment 4 - RSO Training Documents

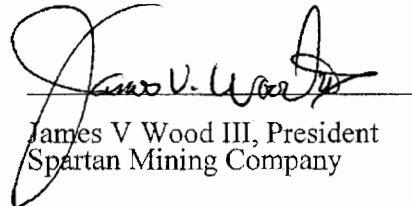
**ALPHA NATURAL RESOURCES SERVICES, LLC**

Please contact William G. Newsome with any questions or requests for further information or documentation. He can be reached at (304) 369-8623 or (606) 831-1598 and by email at [wnewsome@alphamr.com](mailto:wnewsome@alphamr.com).

Thank You.

A handwritten signature in cursive script, appearing to read "W.G. Newsome", written over a horizontal line.

William G. Newsome  
Process Controls Manager / RSO

A handwritten signature in cursive script, appearing to read "James V. Wood III", written over a horizontal line.

James V Wood III, President  
Spartan Mining Company

SL 47-23091-02  
Submitted 4-29-2016  
W.A.M.

APPENDIX B

**Suggested Format for Providing Information Requested in Items 5 Through 11 of NRC Form 313**

**Table B.1 Items 5 & 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
	X	Cobalt-60	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)
	X	Krypton-85	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)
	X	Strontium-90	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)
X		Cesium-137	Sealed source manufacturer or distributor and model number: <u>Attachment</u> Device manufacturer or distributor and model number: <u>Attachment</u>	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 checked="" type="checkbox"/> Specific description of the gauge use: <u>Attachment</u> _____ _____ _____ _____	<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
	X	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 [ ] Specific description of the gauge use: _____ _____ _____ _____ _____	[ ] Not applicable [ ] Uses are: _____ (Submit safety analysis supporting safe use)
	X	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)
Financial Assurance Required and Evidence of Financial Assurance Provided						

W. A. H.

**Table B.2 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  7.1 Radiation Safety Officer <i>Wm. G. Newsome</i> Name: _____	<p>Before obtaining licensed materials, the proposed RSO will have successfully completed the training 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. 4, dated October 1998.</p> <p style="text-align: center;"><b>AND</b></p> <p>Before being named as the RSO, future RSOs will have successfully completed the training 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. 4, dated October 1998. Within 30 days of naming a new RSO, we will submit the new RSO's name to NRC to include in our license.</p>	<input checked="" type="checkbox"/>	[]
7. Individual(s) Responsible For Radiation Safety Program And Their Training And Experience  7.2 Authorized Users	<p><b>PROPOSED AUTHORIZED USERS:</b></p> <p>Before using licensed materials, authorized users will have successfully completed the training described in Criteria in the section entitled, "Authorized Users" in NUREG-1556, Vol. 4, dated October 1998.</p>	<input checked="" type="checkbox"/>	[]
8. Training for Individuals Who in the Course of Employment are Likely to Receive Occupational Doses of Radiation in Excess of 1 mSv (100 mrem) in a Year (Occupationally Exposed Workers) and Ancillary Personnel	<p>The applicant is <i>not</i> required to, and should not, submit is training program, for individuals who in the course of employment are likely to receive occupational doses of radiation in excess of 1 mSv (100 mrem) in a year (occupationally exposed workers) and ancillary personnel, to the NRC for review during the licensing phase.</p>	Need Not Be Submitted with Application	

APPENDIX B

Item No. and Title	Suggested Response	Yes	Alternative Procedures Attached
9. Facilities and Equipment	We will ensure that the location of each fixed gauge meets the Criteria in the section entitled "Facilities and Equipment" in NUREG-1556, Vol. 4, dated October 1998.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Radiation Safety Program - Audit Program	The applicant is <i>not</i> required to, and should not, submit its audit program to the NRC for review during the licensing phase.	Need Not Be Submitted with Application	
10. Radiation Safety Program - Survey Instruments	<p>Surveys pursuant to 10 CFR 20.1501 will be performed by a person specifically authorized by the NRC or an Agreement State to perform these surveys.</p> <p style="text-align: center;"><b>OR</b></p> <p>We will use instruments that meet the Criteria in the section entitled "Radiation Safety Program - Instruments," in NUREG-1556, Vol. 4, dated August 1998, and <i>one</i> of the following:</p> <p>Each survey meter will be calibrated by the manufacturer or other person authorized by the NRC or an Agreement State to perform survey meter calibrations.</p> <p style="text-align: center;"><b>OR</b></p> <p>We will implement the model survey instrument calibration program in Appendix I to NUREG-1556, Vol. 4, dated October 1998.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Radiation Safety Program - Material Receipt and Accountability	Physical inventories will be conducted at intervals not to exceed 6 months or at other intervals approved by the NRC, to account for all sealed sources and devices received and possessed under the license.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Radiation Safety Program - Occupational Dosimetry	We will perform a prospective evaluation demonstrating that unmonitored individuals are not likely to receive, in one year, a radiation dose in excess of 10% of the allowable limits in 10 CFR Part 20 or we will provide dosimetry that meets the Criteria in the section entitled "Radiation Safety Program - Occupational Dosimetry," in NUREG-1556, Vol. 4, dated October 1998.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

W.A.A.

## APPENDIX B

Item No. and Title	Suggested Response	Yes	Alternative Procedures Attached
10. Radiation Safety Program - Public Dose	The applicant is not required to submit a response to the public dose section during the licensing phase. However, during NRC inspections, licensees must be able to provide documentation demonstrating, by measurement or calculation, that the total effective dose equivalent to the individual likely to receive the highest dose from the licensed operation does not exceed the annual limit for individual members of the public.	Need Not Be Submitted with Application	
10. Radiation Safety Program - Operating & Emergency Procedures	<p>If the gauge meets one or more of the safety conditions specified in "Discussion," in the section entitled "Radiation Safety Program-Operating Emergency Procedures," in NUREG 1556, Vol. 4, dated August 1998 state the following:</p> <p>Operating and emergency procedures will be developed, implemented, maintained, and distributed, and will meet the Criteria in the section entitled "Radiation Safety Program - Operating and Emergency Procedures," in NUREG-1556, Vol. 4, dated August 1998.</p> <p>For each gauge requested that does not meet one or more of the safety conditions specified in "Discussion," in the section entitled "Radiation Safety Program-Operating Emergency Procedures," in NUREG 1556, Vol. 4, dated August 1998 provide your operating, emergency and lock-out (if applicable) procedures to NRC for review.</p>	<p><input checked="" type="checkbox"/></p> <p><input type="checkbox"/> Procedures Attached</p>	<p><input type="checkbox"/></p>
10. Radiation Safety Program - Leak Test	<p>Leak tests will be performed at intervals approved by the NRC or an Agreement State and specified in the Sealed Source and Device Registration Certificate. 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.</p> <p style="text-align: center;">OR</p> <p>We will implement the model leak test program published in Appendix M to NUREG-1556, Vol. 4, dated October 1998.</p>	<p><input checked="" type="checkbox"/></p> <p><input type="checkbox"/></p>	<p><input type="checkbox"/></p>

W.D.A.



APPENDIX B

Item No. and Title	Suggested Response	Yes	Alternative Procedures Attached
10. Radiation Safety Program - Maintenance	<p><u>ROUTINE MAINTENANCE</u> We will implement and maintain procedures for routine maintenance of our fixed gauges according to each manufacturer's or distributor's written recommendations and instructions.</p> <p><u>NON-ROUTINE MAINTENANCE OPERATIONS</u> The gauge manufacturer, distributor or other person authorized by NRC or an Agreement State will perform non-routine operations such as installation, initial radiation survey, repair, and maintenance of components related to the radiological safety of the gauge, gauge relocation, replacement, and disposal of sealed sources, alignment, or removal of a gauge from service.</p>	X	<p>[ ]</p> <p>[ ] The information listed in Appendix N supporting a request to perform non-routing operations in-house is attached</p>
10. Radiation Safety Program - Transportation	The applicant is <i>not</i> required to submit its response to transportation during the licensing process; this issue will be reviewed during inspection. However, the licensee should develop, implement, and maintain transportation procedures according to NRC and DOT regulations.	Need Not Be Submitted with Application	
10. Radiation Safety Program - Fixed Gauges Used at Temporary Job Sites	<p>This is not applicable to our program. We will not use fixed gauges at temporary job sites.</p> <p>OR</p> <p>We will develop, implement, maintain and distribute procedures that meet the Criteria in the section entitled "Radiation Safety Program - Fixed Gauges Used at Temporary Job Sites" in NUREG-1556, Vol. 4, dated October 1998.</p>	<p>X Not Applicable</p> <p>[ ]</p>	<p>[ ]</p>
10. Radiation Safety Program - Minimization of Contamination	The applicant is not required to submit a response to minimization of contamination if the applicant's responses meet the criteria for the following sections: Radioactive Material - Sealed Sources and Devices, Facilities and Equipment, Radiation Safety Program - Operating and Emergency Procedures, Radiation Safety Program - Leak Testing, and Waste Management - Gauge Transfer and Disposal.	Need Not Be Submitted with Application	

W.D.A.

## APPENDIX B

Item No. and Title	Suggested Response	Yes	Alternative Procedures Attached
11. Waste Management - Gauge Disposal & Transfer	The applicant is not 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 Not Be Submitted with Application	

W.D.N.

Current Inventory and Use - Spartan Mining Company dba Mammoth Coal Company
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[illegible]

# *Certificate of Completion*

*Radiation Safety Officer Training*

*Alpha Natural Resources*

*June 4<sup>th</sup>-6<sup>th</sup>, 2013*

*Julian, WV*

*This is to certify that*

***William G. Newsome***

has been successfully trained and tested on the following topics:

Regulatory Aspects and regulations; Radiation Physics and Terminology; Gauging Principles/SSDR; Radiation Protection; Dosimetry, Doses and Dose Limits; Biology; Radiation Measurements; Radiation Safety Programs-Operating and Emergency Procedures; Lock-out/Tag-out; Leak testing; Specific Use of Gauges and routine versus nonroutine maintenance



Phil Harb



ENGELHARDT & ASSOCIATES, INC.

Joshua Walkowicz, CHH

# *Certificate of Completion*

WILLIAM NEWSOME

has participated in and completed:

*Radiation Safety Officer Training  
In accordance with  
USNRC NUREG-1556, VOLUME 4*

presented on: *March 25, 2009*



Energy Technologies Inc.  
Knoxville, TN 37931

By:

A handwritten signature in black ink, appearing to read 'D. K. Swindell', is written over a horizontal line.

David K. Swindell  
ETI Radiation Safety Officer

Basic Hazardous Materials Transportation Training Program

# Certificate of Completion

*William Newsome*

a Hazmat Employee

The training was conducted in accordance with International Air Transport Association's requirements, Section 1.5, and the U.S. DOT's requirements, 49CFR 172.704 on General Awareness, Function Specific, Safety, and Security

on

July 9, 2007

*Certification Expires July 8, 2009 (ICAO/IATA)*

*Certification Expires July 8, 2010 (U.S. DOT domestic only)*

Completion of this course is certified by



Trainer, Mack Silver

Employer

Training & Testing Conducted By:

Infotrac, Inc.

200 N. Palmetto St., Leesburg, FL 34748 (352)323-3500



Berthold Technologies  
USA, LLC  
99 Midway Lane  
Oak Ridge, TN 37830 USA  
Phone: 865-483-1488  
Fax: 865-425-4309  
[www.berthold-us.com](http://www.berthold-us.com)

## Certificate of Completion

is hereby granted to:

**William Newsome**

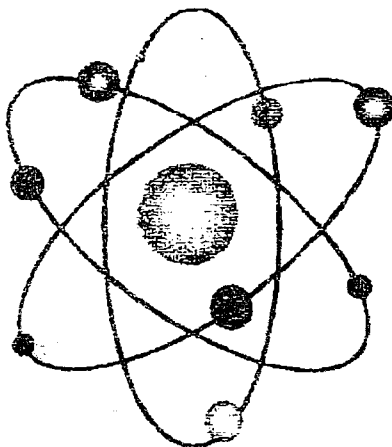
who has completed to satisfaction

**Berthold Technologies Manufacturers**

**General Licensee Instructor Training**

**and Berthold Technologies Manufacturers  
training.**

**Granted: June 19, 2007**



A handwritten signature in black ink, appearing to read "J. L. Newsome", written over a horizontal line.

instructor

### Topics Covered

Customer responsibilities for a  
General Licensee

Radiation Survey Techniques

Routine Maintenance

Source changeouts

Safety Procedures

Emergency Procedures

Wipe Tests

Shutter Tests



RONAN ENGINEERING COMPANY  
NUCLEAR MEASUREMENTS DIVISION  
FLORENCE, KENTUCKY

This is to certify that

William G. Newsome

has successfully completed the  
**RONAN RADIATION SAFETY  
TRAINING SCHOOL**

The Following Topics Were Covered

The principles and fundamentals of radiation protection and good safety practices related to the use of radioactive materials.

Radioactivity measurements, use of radiation detection instruments, and monitoring techniques.

Biological effects of radiation.

Procedures for performing services.

Actual practice in performing the services.

November 8-12, 2004  
Date

John R. [Signature]  
Instructor





Berthold Technologies  
USA, LLC  
99 Midway Lane  
Oak Ridge, TN 37830 USA  
Phone: 865-483-1488  
Fax: 865-425-4309

## Certificate of Completion

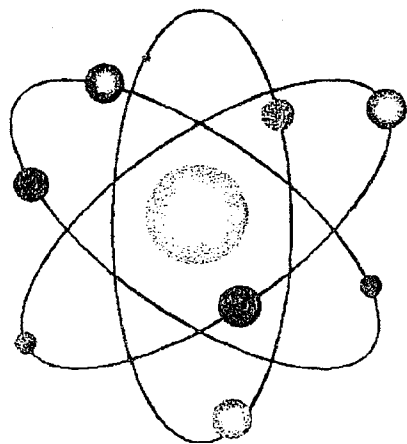
*is hereby granted to:*

*William G. Newsome*

*to certify that they have completed to  
satisfaction*

*8Hr Radiation Safety Class*

*Granted: July 3, 2001*



### Topics Covered

Radiation Terminology  
Biological Effects  
Working with Radiation  
Emergency procedures  
Wipe tests  
Shutter Checks

A handwritten signature in black ink, appearing to read "William H. St.", written over a horizontal line.

*instructor*



## ACKNOWLEDGEMENT - RECEIPT OF CORRESPONDENCE

## Name and Address of Applicant and/or Licensee

David C. Hughart  
President  
Spartan Mining Company  
dba Mammoth Coal Processing  
P.O. Box 150  
Cannelton, WV 25036

## License Number(s)

47-23091-02

## Mail Control Number(s)

590861

## Licensing and/or Technical Reviewer or Branch

Commercial, Industrial, R&amp;D, and Academic Branch

This is to acknowledge receipt of your: ☐ Letter and/or ☒ Application Dated: April 27, 2016

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, Request for Taxpayer Identification Number, 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

☐ The following administrative omissions have been identified:

A copy of your action has been e-mailed 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 I  
U. S. Nuclear Regulatory Commission  
Division of Nuclear Materials Safety  
2100 Renaissance Boulevard, Suite 100  
King of Prussia, PA 19406-2713  
(610) 337-5260, (610) 337-5313,  
(610) 337-5398, (610) 337-5513 or (610) 337-5239