

UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION I 475 ALLENDALE ROAD KING OF PRUSSIA, PENNSYLVANIA 19406-1415

September 20, 2006

Docket No. 03036508

License No. 47-25412-02

Control No. 139299

Barry J. O'Bryan Superintendent Pinnacle Mining Company, LLC Pinnacle Creek Road Pineville, WV 24874

SUBJECT: PINNACLE MINING COMPANY, LLC, LICENSE AMENDMENT, CONTROL NO.

139299

Dear Mr. O'Bryan:

This refers to your license amendment request. Enclosed with this letter is the amended license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5239, so that we can provide appropriate corrections and answers.

An environmental assessment for this action is not required, since this action is categorically excluded under 10 CFR 51.22(c)(14).

Current NRC regulations and guidance are included on the NRC's website at www.nrc.gov; select Nuclear Materials; Medical, Academic, and Industrial Uses of Nuclear Material; then Toolkit Index Page. Or you may obtain these documents by contacting the Government Printing Office (GPO) toll-free at 1-888-293-6498. The GPO is open from 7:00 a.m. to 8:00 p.m. EST, Monday through Friday (except Federal holidays).

Thank you for your cooperation.

Sincerely,

Original signed by Jenny Johansen

Jenny Johansen Health Physicist Materials Security and Industrial Branch Division of Nuclear Materials Safety

Enclosure: Amendment No. 3

CC:

Robert Helmandollar, Radiation Safety Officer

DOCUMENT NAME: G:\Docs\Mailed\Lic Cvr Letter\l47-25412-02.139299.09202006.wpd

SUNSI Review Complete: RRolph
After declaring this document "An Official Agency Record" it will be released to the Public.

To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy

OFFICE	DNMS/RI	Ν	DNMS/RI	Ν	DNMS/RI		
NAME	RRolph/RGR		JJohansen/JMJ				
DATE	9/20/2006		9/20/2006				

OFFICIAL RECORD COPY

NRC FORM 374

U.S. NUCLEAR REGULATORY COMMISSION

PAGE <u>1</u> OF <u>7</u> PAGES Amendment No. 03

Regulatory Commission or an

Agreement State

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below

shall be deemed to contain the conditions applicable rules, regulations, and orders of below.				
Licensee		In accordance v	with t	he letter dated
		August 16, 200	6,	
1. Pinnacle Mining Co.		3. License numbe	r 47-2	25412-02 is amended in
	UCLEAR F	its entirety to re	ad a	s follows:
2. P. O. Box 338	100	4. Expiration date	Sept	ember 30, 2013
Pineville, West Virginia 24874	50	5. Docket No. 030	0-365	508
5		Reference No.	37-2	5635-01 and 47-25412-01
Byproduct, source, and/or special nuclear material	7. Chemical and/or	physical form	8.	Maximum amount that licensee may possess at any one time under this license
A. Cesium 137	A. Sealed Source Model Nos. C CDC.705; or I Lab Model 22	DC.704 or sotope Products	Α.	No single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State
B. Californium 252	B. Sealed Source Model MRC 2 Model No. CV Frontier Techn 100 Series)	765; Amersham N.CY6;or	B.	No single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State
C. Cesium 137	No. CDCW55	SA, Inc. Model 6 or Isotope ratories Model	C.	No single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State
D. Americium 241	No. AMNV.99	SA, Inc. Model 7 or Isotope ratories Model	D.	No single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear

Nos. 3021, 3027, or

Am1.NO2)

NRC FORM 374A	U.S. NUCLEAR REGULATORY COMMISSION		PAGE	2	of	7	PAGES
		License Number					
		4- 6-446 66					

MATERIALS LICENSE SUPPLEMENTARY SHEET

Docket or Reference Number 030-36508 37-25635-01 and 47-25412-01

Amendment No. 03

Authorized use:

A. and B. To be used, for elemental analyses of bulk materials, in fixed gauging devices that have been registered either with the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or with an Agreement State and have been distributed in accordance with a Commission or Agreement State specific license authorizing distribution to persons specifically authorized by a Commission or Agreement State license to receive, possess, and use the devices.

C. and D. In Troxler Electronic Laboratories Model No. 3400 Series portable gauging devices for measuring physical properties of materials.

CONDITIONS

- 10. A. Licensed material listed in items 6.A. and 6.B. above may be used or stored only at the licensee's facilities located at State Road 12/3, Pinnacle Creek Road, Pineville, Wyoming County, West Virginia.
 - B. Licensed material listed in items 6.C. and 6.D. above may be used or stored at the licensee's facilities located at State Road 12/3, Pinnacle Creek Road, Pineville, Wyoming County, West Virginia and may be used at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material, including areas of exclusive Federal jurisdiction within Agreement States.

If the jurisdiction status of a Federal facility within an Agreement State is unknown, the licensee should contact the Federal agency controlling the job site in question to determine whether the proposed job site is an area of exclusive Federal jurisdiction. Authorization for use of radioactive materials at job sites in Agreement States not under exclusive Federal jurisdiction shall be obtained from the appropriate state regulatory agency.

- 11. A. Licensed material listed in items 6.A. and 6.B. above shall be used by, or under the supervision of, individuals who have received the training described in application dated September 23, 1997, and the letter dated January 8, 1998, and have been designated, in writing, by the Radiation Safety Officer. The licensee shall maintain records of individuals designated as users for 3 years following the last use of licensed material by the individual.
 - B. Licensed material listed in items 6.C. and 6.D. shall be used by, or under the supervision and in the physical presence of, individuals who have received the training described in the application dated February 4, 2004.
 - C. The Radiation Safety Officer for this license is Robert Helmandollar.
- 12. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.

NDC	FORM	37/A
INK		3/4A

47-25412-02 Docket or Referen

Docket or Reference Number 030-36508

License Number

37-25635-01 and 47-25412-01

PAGES

Amendment No. 03

MATERIALS LICENSE SUPPLEMENTARY SHEET

- 13. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed six months or at the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State.
 - B. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State, prior to the transfer, a sealed source received from another person shall not be put into use until tested and the test results received.
 - C. Sealed sources need not be tested if they are in storage and are not being used; however, when they are removed from storage for use or transferred to another person and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
 - D. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.
 - E. Tests for leakage and/or contamination, limited to leak test sample collection, shall be performed by the licensee or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services. The licensee is not authorized to perform the analysis; analysis of leak test samples must be performed by persons specifically licensed by U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
 - F. Records of leak test results shall be kept in units of microcuries and shall be maintained for 5 years.
- 14. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
- 15. The licensee shall conduct a physical inventory every six months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory and shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.
- 16. A. Each fixed gauge shall be tested for the proper operation of the on-off mechanism (shutter) and indicator, if any, at intervals not to exceed 6 months or at such longer intervals as specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or the equivalent regulations of an Agreement State.

		374	

MATERIALS LICENSE

SUPPLEMENTARY SHEET

License Number 47-25412-02

Docket or Reference Number 030-36508

37-25635-01 and 47-25412-01

PAGE

PAGES

Amendment No. 03

- B. Notwithstanding the periodic on-off mechanism (shutter) and indicator test, the requirement does not apply to gauges that are stored, not being used, and have the shutter lock mechanism in a locked position. The gauges exempted from this periodic test shall be tested before use.
- 17. The following services shall not be performed by the licensee: installation, initial radiation surveys, relocation, removal from service, dismantling, alignment, replacement, disposal of the sealed source and non-routine maintenance or repair of components related to the radiological safety of the gauge (i.e., the sealed source, the source holder, source drive mechanism, on-off mechanism (shutter), shutter control, shielding). These services shall be performed only by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
- 18. The licensee may initially mount a gauge if permitted by the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State and under the following conditions:
 - A. The gauge must be mounted in accordance with written instructions provided by the manufacturer;
 - B. The gauge must be mounted in a location compatible with the "Conditions of Normal Use" and "Limitations and/or Other Considerations of Use" in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State;

NRC	FORM	374A
-----	-------------	------

MATERIALS LICENSE SUPPLEMENTARY SHEET

PAGE
License Number
47-25412-02

PAGES

Docket or Reference Number 030-36508

37-25635-01 and 47-25412-01

Amendment No. 03

- C. The on-off mechanism (shutter) must be locked in the off position, if applicable, or the source must be otherwise fully shielded;
- D. The gauge must be received in good condition (i.e., package was not damaged); and
- E. The gauge must not require any modification to fit in the proposed location.

Mounting does not include electrical connection, activation or operation of the gauge. The source must remain fully shielded and the gauge may not be used until it is installed and made operational by a person specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such operations.

- 19. A. The licensee may maintain, repair, or replace device components that are not related to the radiological safety of the device and that do not result in the potential for any portion of the body to come into contact with the primary beam or in increased radiation levels in accessible areas.
 - B. The licensee may not maintain, repair, or replace any of the following device components: the sealed source, the source holder, source drive mechanism, on-off mechanism (shutter), shutter control, or shielding, or any other component related to the radiological safety of the device, except as provided otherwise by specific condition of this license.
- 20. Prior to initial use and after installation, relocation, dismantling, alignment, or any other activity involving the source or removal of the shielding, the licensee shall assure that a radiological survey is performed to determine radiation levels in accessible areas around, above, and below the gauge with the shutter open. This survey shall be performed only by persons authorized to perform such services by the U.S. Nuclear Regulatory Commission or an Agreement State.
- 21. The licensee shall operate each fixed gauge device containing licensed material within the manufacturer's specified temperature and environmental limits such that the shielding and shutter mechanism of the source holder are not compromised.
- 22. The licensee shall assure that the shutter mechanism, for each device containing licensed material, is locked in the closed position during periods when a portion of an individual's body may be subject to the direct radiation beam. The licensee shall review and modify, as appropriate, its "lock-out" procedures whenever a new device is obtained to incorporate the device manufacturer's recommendations.
- 23. Each portable nuclear 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 or storage, or when not under the direct surveillance of an authorized user.
- 24. Any cleaning, maintenance, or repair of the portable gauges that requires detaching the source or source rod from the gauge shall be performed only by the manufacturer or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.

		374A

License Number 47-25412-02

Docket or Reference Number 030-36508

37-25635-01 and 47-25412-01

PAGE

PAGES

Amendment No. 03

MATERIALS LICENSE SUPPLEMENTARY SHEET

- 25. A. If the licensee uses unshielded sealed sources extended more than 3 feet below the surface, the licensee shall use surface casing that extends from the lowest depth to 12 inches above the surface and other appropriate procedures to reduce the probability of the source or probe becoming lodged below the surface. If it is not feasible to extend the casing 12 inches above the surface, the licensee shall implement procedures to ensure that the cased hole is free of obstruction before making measurements.
 - B. If a sealed source or a probe containing sealed sources becomes lodged below the surface and it becomes apparent that efforts to recover the sealed source or probe may not be successful, the licensee shall notify the U.S. Nuclear Regulatory Commission and submit the report required by 10 CFR 30.50(b)(2) and (c). The licensee shall not abandon the sealed source or probe without obtaining the Commission's prior written consent.
- 26. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

FORM 374	

PAGE 7 of 7 PAGES

License Number
47-25412-02

Docket or Reference Number
030-36508
37-25635-01 and 47-25412-01

Amendment No. 03

MATERIALS LICENSE SUPPLEMENTARY SHEET

- 27. 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 U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
 - A. Application dated September 23, 1997 (ML061440496)
 - B. Letter dated January 8, 1998 (ML061440499)
 - C. Letter dated July 1, 2003 (ML032671111)
 - D. Application dated February 4, 2004 (ML040490126)



By

For the U.S. Nuclear Regulatory Commission

Date ____ September 20, 2006

Original signed by Jenny Johansen

Jenny Johansen Materials Security and Industrial Branch Division of Nuclear Materials Safety Region I King of Prussia, Pennsylvania 19406