

U. S. NUCLEAR REGULATORY COMMISSION  
MATERIALS LICENSE

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Amendment No. 03

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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 1, Parts 30, 31, 32, 33, 34, 35, 36, 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); and to import such byproduct and source material. 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.

Licensee		In accordance with application dated April 26, 1979
1. Black Gold Logging and Perforating, Incorporated		3. License number 35-13329-01 is amended in its entirety to read as follows:
2. Highway 60 West P. O. Box 1385 Pawhuska, Oklahoma 74056		
		4. Expiration date August 31, 1985
		5. Docket or Reference No.
6. 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. Americium 241:Be	A. Sealed sources (Parkwell Laboratories Model PL-AmBe or Gammatron Model AN-HP)	A. Not to exceed 5 curies per source
9. Authorized use		
A. For use in oil well logging.		

CONDITIONS

10. Licensed material may be used at the licensee's facility located at Highway 60 West, Pawhuska, Oklahoma and 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.
11. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections" and Part 20, "Standards for Protection Against Radiation."

date of the inventory for inspection by the Commission, and shall include the quantities and kinds of byproduct material, location of sealed sources, and the date of the inventory.

Date

AUG 06 1980

For the U. S. Nuclear Regulatory Commission

by Joseph M. Brown  
Material Licensing Branch

Division of Fuel Cycle and

8009040346

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## MATERIALS LICENSE

Amendment No. 09

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 1, Parts 30, 31, 32, 33, 34, 35, 36, 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); and to import such byproduct and source material. 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.

## Licensee

1. Allegheny Nuclear Surveys Incorporated

P.O. Box 506

2. Weston, West Virginia 26452

In accordance with letter dated  
August 4, 19823. License number 47-11976-01 is amended in  
its entirety to read as follows:

4. Expiration date September 30, 1984

5. Docket or  
Reference No.6. Byproduct, source, and/or  
special nuclear material7. Chemical and/or physical  
form8. Maximum amount that licensee  
may possess at any one time  
under this licenseA. Iodine 131  
B. Iridium 192  
C. Cesium 137

D. Cesium 137

E. Americium 241:Be

A. Any  
B. Any  
C. Sealed sources (Gulf  
Nuclear Model VL-1)  
D. Sealed sources (General  
Nuclear Inc. Model  
GNI-CS-1000 or GNI-CS-2000,  
or Gulf Nuclear Model CSV)E. Sealed neutron sources  
(Parkwell Laboratories  
Inc. Model PL-AmBe,  
Gammatron Inc. Model  
AN-HP, Nuclear Environmental  
Engineering, Inc. Model NEEI 71-1  
or Gulf Nuclear Model NEEI-AmBe-71-1)A. 50 millicuries  
B. 100 millicuries  
C. Not to exceed 1 curie  
per source  
D. Not to exceed 2 curies  
per sourceE. Not to exceed 5 curies  
per source

9. Authorized use

A. and B. For use in oil and gas well tracer studies.  
C. through E. For use in oil and gas well logging.

CONTROL NO. 78118