

BUTTE-SILVER BOW
DEPARTMENT OF PUBLIC WORKS

Courthouse
Butte, Montana 59701
Phone: (406) 723-8262



October 20, 1989

Chuck Caine
Regulatory Commission
611 Ryan Plaza Drive
Arlington, Texas 76017

Re: Nuclear Device

Dear Mr. Caine:

Enclosed please find a copy of a Certificate of Training from the National Highway Institute. The following course dealt a great deal with operation and handling of nuclear devices. During 1987 I was the nuclear tester for Bob Wilson, Department of Highways, on the Last Chance Gulch project. I was trained in the operation of nuclear devices by Bill Gromolez and Mark Snow, Department of Highways, Butte, Montana 59701, telephone (406) 494-3224. I was responsible for all compaction tests on fill material and Bituminous material.

If you need further information, please feel free to contact me at (406) 723-8262, ext. 341.

Sincerely,

Bill Patrick/cam

Bill Patrick
Field Project Supervisor

BP:cam

Enc.

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REG4 LIC30
25-16691-01 PNU

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, 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.

<p>Licensee</p> <p>1. Butte-Silver Bow Department of Public Works</p> <p>2. Courthouse Butte, Montana 59701</p>	<p>In accordance with application dated July 18, 1985</p> <p>3. License number 25-16691-01 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date January 31, 1991</p> <hr/> <p>5. Docket or Reference No. 030-11489</p>
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<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Cesium-137/Americium-241</p>	<p>7. Chemical and/or physical form</p> <p>A. Combined sealed sources (Campbell Pacific Nuclear Model CPN-131)</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. Not to exceed 10 millicuries of Cesium-137 and 50 millicuries of Americium-241 per source</p>
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<p>9. Authorized use</p> <p>A. For use in Campbell Pacific Portaprobe Model B(R) moisture/density gauges for measurement of properties of materials.</p>
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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License number
25-16691-01

Docket or Reference number
030-11498

Amendment No. 08

CONDITIONS

10. Licensed material may be used at Butte-Silver Bow, Courthouse, 1st Floor, Butte, Montana, 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. Licensed material shall be used by, or under the supervision and in the physical presence of, Dale Cosper or Rick Griffith.
12. A. (1) The source specified in Item 7.A. shall be tested for leakage and/or contamination at intervals not to exceed 6 months. Any source received from another person which is not accompanied by a certificate indicating that a test was performed within 6 months before the transfer shall not be put into use until tested.
(2) Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.
B. Any source in storage and not being used need not be tested. When the source is removed from storage for use or transfer to another person, it shall be tested before use or transfer.
C. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the source shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region IV, 611 Ryan Plaza Drive, Suite 1000, Arlington, Texas 76011, ATTN: Chief, Radiological and Safeguards Programs Branch. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.

MATERIALS LICENSE
SUPPLEMENTARY SHEETLicense number
25-16691-01Docket or Reference number
030-11489

Amendment No. 08

12. (continued)

D. The licensee is authorized to collect leak test samples for analysis by Campbell Pacific Nuclear, Inc., or tests for leakage and/or contamination shall be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.

13. Sealed sources containing licensed material shall not be opened.

14. Maintenance or repair of portable devices involving removal of the sealed sources from the devices or removal or dismantling of shielding may be performed only by the device manufacturer or by other persons specifically authorized by the Commission or an Agreement State to perform such services.

15. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 2 years from the date of each inventory.

16. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

17. 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 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 July 18, 1985

B. Letter dated December 3, 1985

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date JAN 31 1986Original Signed BY
Jack E. Whitten
By _____
Nuclear Materials Safety Section
Region IV
Arlington, Texas 76011



US Department
of Transportation

Federal Highway
Administration

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Certifies that **BILL PATRICK**

has satisfactorily completed **TWENTY** hours of training in

MONTANA ASPHALT CERTIFICATION SEMINAR

under the Rural Technical Assistance Program.

George M. Shriver

Director, National Highway Institute

Alan J. Johnson

Director, Technology Transfer Center

William Olson

Presenter

2/24/89

Date

FORM NRC-313 I (3-80) 10 CFR 30	U.S. NUCLEAR REGULATORY COMMISSION	1. APPLICATION FOR: <i>(Check and/or complete as appropriate)</i>
APPLICATION FOR BYPRODUCT MATERIAL LICENSE INDUSTRIAL		a. NEW LICENSE

See attached instructions for details.

Completed applications are filed in duplicate with the Division of Fuel Cycle and Material Safety, Office of Nuclear Material Safety, and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555 or applications may be filed in person at the Commission's office at 1717 H Street, NW, Washington, D. C. or 7915 Eastern Avenue, Silver Spring, Maryland.

2. APPLICANT'S NAME <i>(Institution, firm, person, etc.)</i> Butte-Silver Bow, Dept. of Public Works TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION (406) 723-8262, ext. 341	3. NAME AND TITLE OF PERSON TO BE CONTACTED REGARDING THIS APPLICATION Bill Patrick, Field Project Supervisor TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION (406) 723-8262, ext. 341
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4. APPLICANT'S MAILING ADDRESS <i>(Include Zip Code)</i> <i>(Address to which NRC correspondence, notices, bulletins, etc., should be sent.)</i> Department of Public Works Courthouse, 155 West Granite Butte, Montana 59701	5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED <i>(Include Zip Code)</i> Anywhere in the City/County of Butte-Silver Bow, Montana 59701
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(IF MORE SPACE IS NEEDED FOR ANY ITEM, USE ADDITIONAL PROPERLY KEYED PAGES.)

6. INDIVIDUAL(S) WHO WILL USE OR DIRECTLY SUPERVISE THE USE OF LICENSED MATERIAL	
<i>(See Items 16 and 17 for required training and experience of each individual named below)</i>	
FULL NAME	TITLE
a. Bill Patrick	Field Project Supervisor
b.	
c.	

7. RADIATION PROTECTION OFFICER Bill Patrick	<i>Attach a resume of person's training and experience as outlined in Items 16 and 17 and describe his responsibilities under Item 15.</i>
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8. LICENSED MATERIAL				
LINE NO.	ELEMENT AND MASS NUMBER	CHEMICAL AND/OR PHYSICAL FORM	NAME OF MANUFACTURER AND MODEL NUMBER <i>(If Sealed Source)</i>	MAXIMUM NUMBER OF MILLICURIES AND/OR SEALED SOURCES AND MAXIMUM ACTIVITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME
NO.	A	B	C	D
(1)	Cesium 137	Sealed Source	Campbell Pacific	10 millicuries
(2)	Americium 241	Sealed Source	Nuclear Model B(R) Mark II	50 millicuries
(3)	Cesium 137	Sealed Source	Campbell Pacific	10 millicuries
(4)	Americium 241	Sealed Source	Nuclear Model BC US DOT 7A TYPE A	50 millicuries

DESCRIBE USE OF LICENSED MATERIAL	
E	
(1)	For soil density and moisture measurements
(2)	
(3)	
(4)	