

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.

Licensee	In accordance with letter dated March 10, 1997
1. U.S. Department of the Interior Bureau of Reclamation Lower Colorado Region	3. License Number 02-29095-01 is amended in its entirety to read as follows:
2. Yuma Area Office 7301 Calle Agua Salada Yuma, Arizona 85364	4. Expiration Date February 28, 2001
	5. Docket or Reference No. 030-33989

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	A. Sealed sources registered either with NRC under 10 CFR 32.210 or with an Agreement State and incorporated in a compatible gauging device as specified in Item 9 of this license	A. See Condition 9.A.

9. Authorized use

- A. To be used, for measurement purposes, in compatible portable Boart Longyear Company (formerly Campbell Pacific Nuclear Company), gauging devices that have been registered either with NRC under 10 CFR 32.210 or with an Agreement State and have been distributed in accordance with an NRC or Agreement State specific license authorizing distribution to persons specifically authorized by an NRC or Agreement State license to receive, possess, and use the devices.

CONDITIONS

10. Licensed material may be used at the licensee's facilities located at 7301 Calle Agua Salada, Yuma, Arizona; 204 Pima Street, Sacaton, Arizona; 14329 South Fourth Avenue Extension, Yuma, Arizona; 30570 Wellton-Mohawk Drive, Wellton, Arizona; 333 East Barioni Boulevard, Imperial, California; 10888 North 19th Avenue, Phoenix, Arizona, and at temporary job sites of the licensee anywhere in the United States.

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SUPPLEMENTARY SHEET**

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Amendment No. 2

11. A. Licensed material shall only be used by, or under the supervision of and in the physical presence of, Mark Niblack, or individuals who have successfully completed the manufacturer's training program for gauge users, have received copies of, and training in, the licensee's operating and emergency procedures, and have been designated by the Radiation Safety Officer.
B. The Radiation Safety Officer for this license is Mark Niblack.
12. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
13. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license.
14. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210 or by an Agreement State.
B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.
C. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
D. Sealed sources need not be leak tested if:
 - (i) they contain only hydrogen-3; or
 - (ii) they contain only a radioactive gas; or
 - (iii) the half-life of the isotope is 30 days or less; or
 - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
 - (v) they are not designed to emit alpha particles, 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 or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.

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(continued)

- E. The leak 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, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(b)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The 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 400, Arlington, Texas 76011, ATTN: Director, Division of Radiation Safety and Safeguards. The report shall specify the source involved, the test results, and corrective action taken.
- F. The licensee is authorized to collect leak test samples for analysis by Boart Longyear Company/CPN Corp. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
15. 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.
16. Except for maintaining labeling as required by 10 CFR Part 20 or 71, the licensee shall obtain authorization from NRC before making any changes in the sealed source, device, or source-device combination that would alter the description or specifications as indicated in the respective Certificates of Registration issued either by the Commission pursuant to 10 CFR 32.210 or by an Agreement State.
17. Any cleaning, maintenance, or repair of the gauges that requires removal of the source rod shall be performed only by the manufacturer or by other persons specifically licensed by the Commission or an Agreement State to perform such services.
18. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

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19. A. If the licensee uses sealed sources or probes containing sealed sources at depths greater than 3 feet, 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.
- 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.
20. 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.
21. 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 received July 23, 1980
 - B. Letter dated May 5, 1989
 - C. Letter dated July 27, 1990
 - D. Letter dated December 26, 1990
 - E. Letter dated September 30, 1993
 - F. Letter dated August 8, 1994
 - G. Letter dated January 3, 1995
 - H. Letter dated January 9, 1995
 - I. Letter (facsimile) dated January 26, 1995
 - J. Letter dated October 16, 1995
 - K. Letter dated November 27, 1995
 - L. Letter dated January 31, 1997
 - M. Letter dated February 13, 1997
 - N. Letter dated March 10, 1997
 - O. Facsimile dated March 24, 1997

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date MAR 24 1997

By

Beth A. Pange

Materials Branch
Region IV, WCFO
Walnut Creek, California 94596

(FOR LFMS USE)
INFORMATION FROM LTS

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

Program Code: 03121
Status Code: 0
Fee Category: EX 3P
Exp. Date: 20010228
Fee Comments:
Decom Fin Assur Regd: N

LICENSE FEE TRANSMITTAL

A. REGION TJ WCFO

1. APPLICATION ATTACHED
Applicant/Licensee: INTERIOR, DEPARTMENT OF THE
Received Date: 970313
Docket No: 3033989
Control No.: 572470
License No.: 02-29095-01
Action Type: Amendment

2. FEE ATTACHED
Amount: _____
Check No.: _____

3. COMMENTS

Signed _____
Date _____

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered /_/)

1. Fee Category and Amount: _____

2. Correct Fee Paid. Application may be processed for:

Amendment _____
Renewal _____
License _____

3. OTHER _____

Signed _____
Date _____



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV

Walnut Creek Field Office
1450 Maria Lane
Walnut Creek, California 94596-5368

MAR 24 1997

U.S. Department of the Interior
Bureau of Reclamation
Yuma Area Office
ATTN: Donald J. Young, Chief
Operations Division
P. O. Box D
Yuma, Arizona 85366

SUBJECT: LICENSE AMENDMENT

Please find enclosed License No. 02-29095-01. You should review this license carefully and be sure that you understand all conditions. If you have any questions, you may contact Kent M. Prendergast at (510) 975-0255.

NRC expects licensees to conduct their programs with meticulous attention to detail and a high standard of compliance. Because of the serious consequences to employees and the public which can result from failure to comply with NRC requirements, you must conduct your program involving radioactive materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

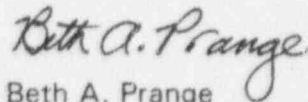
1. Operate in accordance with NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers: Inspection and Investigations," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
2. Possess radioactive material only in the quantity and form indicated in your license.
3. Use radioactive material only for the purpose(s) indicated in your license.
4. Notify NRC in writing of any change in mailing address (no fee required if the location of radioactive material remains the same).
5. Request and obtain written NRC consent before transferring your license or any right thereunder, either voluntarily or involuntarily, directly or indirectly, through transfer of control of your license to any person or entity. A transfer of control of your license includes not only a total change of ownership, but also a change in the controlling interest in your company whether it is a corporation, partnership, or other entity. In addition, appropriate license amendments must be requested and obtained for any other planned changes in your facility or program that are contrary to your license or contrary to representations made in your license application, as well as supplemental correspondence thereto, which are incorporated into your license. A license fee may be charged for the amendments if you are not in a fee-exempt category.

6. Maintain in a single document decommissioning records that have been certified for completeness and accuracy listing all the following items applicable to the license:
 - Onsite areas designated or formerly designated as restricted areas as defined in 10 CFR 20.3(a)(14) or 20.1003.
 - Onsite areas, other than restricted areas, where radioactive materials in quantities greater than amounts listed in Appendix C to 10 CFR 20.1001-20.2401 have been used, possessed, or stored.
 - Onsite areas, other than restricted areas, where spills or other unusual occurrences involving the spread of contamination in and around the facility, equipment, or site have occurred that required reporting pursuant to 10 CFR 30.50(b)(1) or (b)(4), including areas where subsequent cleanup procedures have removed the contamination.
 - Specific locations and radionuclide contents of previous and current burial areas within the site, excluding radioactive material with half-lives of 10 days or less, depleted uranium used only for shielding or as penetrators in unused munitions, or sealed sources authorized for use at temporary job sites.
 - Location and description of all contaminated equipment involved in licensed operations that is to remain onsite after license termination.
7. Submit a complete renewal application with proper fee, or termination request at least 30 days before the expiration date on your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of radioactive material after your license expires is a violation of NRC regulations.
8. Request termination of your license if you plan to permanently discontinue activities involving radioactive material.

You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation; imposition of a civil penalty; or an order suspending, modifying, or revoking your license as specified in the "General Statement of Policy and Procedure for NRC Enforcement Actions" (Enforcement Policy), 60 FR 34381, June 30, 1995.

Thank you for your cooperation.

Sincerely,

A handwritten signature in cursive script that reads "Beth A. Prange".

Beth A. Prange
Sr. Health Physicist (Licensing)
Materials Branch

Docket: 030-33989
License: 02-29095-01
Control: 572470

Enclosures: As stated

bcc:

Docket File
WCFO Inspection File
LFDCB, T-9 E10
State of Arizona (License Only)

DOCUMENT NAME: G:\DOI57245⁷⁰₅₂

To receive copy of document, indicate in box: "C" = Copy without enclosures "E" = Copy with enclosures "N" = No copy

RIV:MB	C:fid	N						
KPrendergast <i>MB</i>	BPrange <i>BAP</i>							
03/17/97	03/24/97	03/ /97	03/ /97	03/ /97				

OFFICIAL RECORD COPY

U.S. BUREAU OF RECLAMATION
YUMA AREA OFFICE

7301 Calle Agua Salada
P.O. Box D
Yuma, Arizona 85366

Telephone No.: 520-343-8100

Facsimile No.: 520-343-8320
520-343-8106

Date: 3/24

Number of Pages: 2
(include cover)

To: Ken Prendergast
NRC

Code: _____

Facsimile No.: (510) 975-0381

Telephone No.: ()

From: Mark Niblock

Code: 6020

Extension: 8253

Comments: _____

Facsimile Operator:
Time Transmitted: 10:10 (a.m./p.m.)
Operator Initials: BMM
(Confirmation on last page)



572470

FAX

To: Ken Prendergast
NRC

From: Mark Niblack
USBR, Yuma, AZ

Re: License 02-29095-01 Renewal

Pursuant to our telephone conversation today, we are aware that we are not authorized to train new gauge operators, and will utilize the training courses provided by the manufacturer.

If you need any additional information, please contact me at (520) 343-8253

cc: Don Young

JOE ESPINOZA



United States Department of the Interior

BUREAU OF RECLAMATION

Yuma Area Office
P.O. Box D
Yuma, Arizona 85306

MAR 10 1997

030-33989 *Amendment*
RECEIVED
NRC
RIV WCFO

97 MAR 13 PM 12:24

IN REPLY REFER TO:

YAO-6020
WTR-3.10

CERTIFIED - RETURN RECEIPT REQUESTED (P190415308)

Ms. Beth Prange
Nuclear Regulatory Commission
Region V
1450 Maria Lane
Walnut Creek CA 94596

Subject: Request for License Amendment License No. 02-29095-01

Dear Ms. Prange:

This letter is to request that Mark Niblack replace Locke E. Hahne as Radiation Safety Officer on our radioactive materials license. His statement of training and experience and supporting documents are enclosed.

Sincerely,

Donald J. Young
Chief Operations
Division

Enclosure

572470

STATEMENT OF TRAINING AND EXPERIENCE

Training:

- 4 Hours Hazardous Materials Training - In house
- 4 Hours MSDS Workers Right-to-Know - In house
- 4 Hours Neutron Moisture Meter Operators Refresher Safety Training - In house
- *8 Hours Boart Long year/CPN training course on Radiation Safety and use of Nuclear Energy - certificate enclosed
- 4 Hours Boart Longyear/CPN Radiation Safety Officer Seminar

Total 24 Hours

*The course format and outline followed Part I, Appendix D, Draft Regulatory Guide DG-0008

Experience:

- 12 hours in field operation and use of neutron moisture gauge.
- 4 hours in field calibration of instruments.

Total 16 Hours

Signed:

Mark Niblack
Mark Niblack

Date:

4/7/97

Nº 27590

Certificate Of Completion

*This is to certify that Mark Niblack has completed the
basic CPN® training course on Radiation Safety and Use of Nuclear Gauges,
held this 22nd day of October 19 96 in the
City of San Clemente State of CA by Boart Longyear Company.*

Boart Longyear Company
2830 Howe Road
Martinez, California 94553 USA
Phone: (510) 228-9770
Fax: (510) 228-3183



Charles D. Cherry
INSTRUCTOR
Douglas Carter
RADIATION SAFETY OFFICER

Certificate Of Completion

This is to certify that Mark Niblack has completed the
CPN® Radiation Safety Officer Seminar for Nuclear Gauges,
held this 19th day of February 1997 in the
City of San Clemente State of CA by Boart Longyear Company.

Boart Longyear Company
2830 Howe Road
Martinez, California 94553 USA
Phone: (510) 228-9770
Fax: (510) 228-3183



Charles D. Cherry
INSTRUCTOR

RADIATION SAFETY OFFICER