

U.S. Department of the Interior
Bureau of Reclamation
ATTN: Douglas E. Gober
10900 Highway 160, East
Alamosa, Colorado 81101

Gentlemen:

Please find enclosed your NRC material license. You should review this license carefully and be sure that you understand all conditions. If you have any questions, you may contact the reviewer who signed your license at 817/860-8100.

Please be advised that 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; Inspections," 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 appropriate amendments if you plan to change ownership of your sole proprietorship or partnership, change the corporate status of your company, change locations of radioactive material, or make any other changes in your facility or program which are contrary to your license conditions or representations made in your license application and any supplemental correspondence with NRC. A license fee may be charged for the amendments if you are not in a fee-exempt category.

RIV:NMLS
JAMarshall;df
12/10/87

NMLS
JEWhitten
12/15/87

C.NMLS
CLCain
12/15/87

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6. 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.
7. Request termination of your license if you plan to permanently discontinue activities involving radioactive material.

You will be periodically inspected by NRC. A fee may be charged for inspections in accordance with 10 CFR Part 170. 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 Policy and Procedures for NRC Enforcement Action, 10 CFR Part 2, Appendix C. Since serious consequences to employees and the public can result from failure to comply with NRC requirements, prompt and vigorous enforcement action will be taken when dealing with licensees who do not achieve the necessary meticulous attention to detail and the high standard of compliance which the NRC expects of its licensees.

Thank you for your cooperation.

Sincerely,

Original signed by
JACK E. WHITTEN
Charles L. Cain, Chief
Nuclear Materials Licensing Section

Enclosure:
As stated

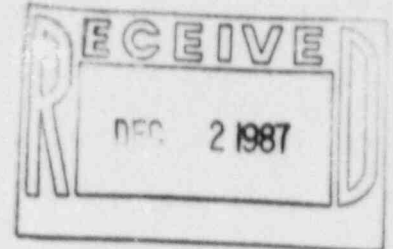


United States Department of the Interior

BUREAU OF RECLAMATION
SOUTHWEST REGION
COMMERCE BUILDING, 714 S. TYLER, SUITE 201
AMARILLO, TEXAS 79101-2386

IN REPLY
REFER TO: SW-160

NOV 30 1987



Chief, Nuclear Materials Safety Section
U.S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 1000
Arlington, Texas 76011

(030-30328)
NL3L 26915

Dear Sir:

The Bureau of Reclamation requests the following amendments to Materials License No. 42-12225-02:

1. The mailing address of the licensee shown in items 1 and 2 should be changed to

U.S. Department of the Interior
Bureau of Reclamation
10900 Highway 160, East
Alamosa, Colorado 81101

2. The name of the radiation protection officer, Robert E. Riley, be removed from the license and be replaced with Douglas E. Gober. Mr. Gober has completed a course on Radiation Safety and Use of Nuclear Soil Gauges. A copy of his certificate of training, outline of course content, and qualifications of the course instructor are enclosed.

Please contact us by telephone at FTS 735-5560 if further information is required to accomplish these changes.

Sincerely,

Eugene Hinds
Regional Director

Enclosures

FEE EXEMPT

~~88-2650088~~ 579

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Certificate of Completion

This is to certify that Doug Gohar has completed the basic training

course on Radiation Safety and Use of Nuclear Soil Gauges, held

this 9th day of April 19 85, held at Bureau of Reclamation City of Alamosa

State of Colorado by Campbell Pacific Nuclear Corporation

[Signature]
INSTRUCTOR

[Signature]
RADIATION SAFETY OFFICER

CONTENTS OF COURSE

PRINCIPLES AND PRACTICES OF RADIATION PROTECTION

Theory, terminology, and practical applications of Radioactive Materials, license requirements, Storage, Transportation, and Emergency Procedures to be used with portable nuclear devices typical of "cell, collection, ref, and other construction gauges using small (not more than 300 millicurie) sources in sealed capsules.

RADIOACTIVITY MEASUREMENT STANDARDIZATION AND PERTINENT TECHNIQUES AND INSTRUMENTS

Recognition of radiation levels typical with use of small, portable devices using conventional survey meter. Concentration on Inverse Square Law factors, effects of shielding, time, and distance in use of materials.

MATHEMATICS AND CALCULATIONS BASIC TO THE USE AND RESOURCES OF RADIOACTIVITY

Determination of typical radiation levels in RADS within working distance of a typical portable "construction device", calculation of probable yearly radiation dose under a heavy work condition, and relation of that dose to the MRC maximum annual allowances for occupational use of radioactivity.

Establishment of relationship of this occupational dose to that obtained from normal life exposures of external radiation at sealevel and high elevations, jet plane travel, normal health XRAYs, etc.

BIOLOGICAL EFFECTS OF RADIATION

General discussion of effects of low level radiation on the body with emphasis on the relationship of routine lifestyle exposure (environmental, routine medical, smoking, etc) to the added exposure from normal use of portable devices using small millicurie sources.



130 South Buchanan Circle, Pacheco, CA 94553
Telephone (415) 687-6472, Telex 17-1289 CPN-UD

CERTIFICATE OF TRAINING

THIS IS TO CERTIFY THAT STEVE THOMPSON HAS SATISFACTORILY COMPLETED
THE INSTRUCTORS TRAINING COURSE JULY 1984 ON CPN PRODUCTS, HELD
AT CONCORD, CALIFORNIA.

He is authorized to conduct a CPN NUCLEAR TRAINING COURSE under the
following conditions.

1. Class must parallel the CPN Training Class Format. The format
may be adapted to suit local license requirements or unusual
requirements of the clients at the discretion of the instructor
provided the essence of the format is retained.
2. Use CPN Instruction Manuals and CPN Quiz.
3. Issue CPN Certificate.
4. Copy of class registration sheet forwarded to CPN Training
Coordinator.

Instructors are advised to maintain close contact with the license jur-
isdiction in the locality of the course to insure coordination of our
training with the specific interests of the local license authorities.
Invitation should be extended to the local authorities to attend the
classes and to make a brief speech in regard to their assistance and
availability to the users.

Patrick J. Campbell, President
Radiation Safety Officer
CPN CORPORATION

STEPHEN V. THOMPSON

President, Thompson/Quill Associates of Colorado - Denver

Since 1959, involved in the development, production and distribution of Civil Engineering Test Equipment used for laboratory and field testing of construction materials (soils, concrete and bituminous products).

First involved with the use of Nuclear Soil Gauges in 1961.

Radiation Safety Office since 1968.

U.S. and International travel since 1961 providing training in the use of Civil Engineering Test Equipment, Geophysical Exploration instruments and Nuclear gauges.



United States Department of the Interior

BUREAU OF RECLAMATION
SOUTHWEST REGION
COMMERCE BUILDING, 714 S. ULLER, SUITE 200
AMARILLO, TEXAS 79101

IN REPLY
REFER TO:

160

APR 24 1985

Mr. John W. N. Hickey
Materials Licensing Branch
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Hickey:

In reference to our License No. 42-12225-02, your Control No. 18144, and your letter of November 21, 1984, we have accomplished the required training and are now able to furnish the information requested in your September 21, 1984, letter.

Enclosed are certificates of completion for Mr. Dargan and Ms. Evelyn Vigil, attesting to their satisfactory completion of all training required so that you may include them on our above-referenced byproduct material license.

Also attending this course were the following employees of the Bureau of Reclamation, and we request that their names be added to our license:

Robert E. Riley - Regional Safety Engineer
John Brady - Regional Field Safety Engineer
Doug Gober - Civil Engineer
Steve Radcliff - Civil Engineer
Michael S. Carrington - Civil Engineering Technician

Mr. Larry P. Walkoviak and Mr. Don Martin should be deleted from our current license as it has been determined by their supervisors that they will no longer be required to use the gauge.

For your information, Ms. Martha L. Zirbel, Physical Science Technician, who we requested be added to our license in our September 11, 1984, letter is no longer employed by Reclamation and we therefore withdraw that request.

The training course conducted by Campbell Pacific Nuclear in Alamosa, Colorado, on April 9, 1985, included the following: "Principles and Practices of Radiation Protection," "Radioactivity Measurement Standardization and Monitoring Techniques and Instruments," "Mathematics and Calculations Basic to the Use and Measurement of Radioactivity," and "Biological Effects of Radiation."

A copy of the contents of the course is included on the reverse of the enclosed certificates of completion. Campbell Pacific Nuclear Corporation, the manufacturer of our gauges, conducted this training for us at the project office where these devices are in use and we were all afforded both theory and actual hands-on experience.

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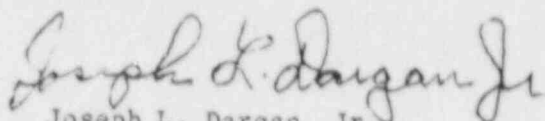
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Mr. John W. N. Hickey

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Difficulties in scheduling this training was the primary reason for the delay in our response to your request for additional information. Now that we have furnished all requested information, we again request that you amend our license to reflect the above.

Sincerely yours,

A handwritten signature in cursive script, reading "Joseph L. Dargan, Jr.", written in dark ink.

Joseph L. Dargan, Jr.
Radiation Protection Officer

7 Enclosures

Certificate of Completion

This is to certify that JOSEPH L. DARGAN, JR. has completed the basic training
course on Radiation Safety and Use of Nuclear Soil Gauges, held

this 9th day of April 19 85, held at Bureau of Reclamation City of Alamosa

State of Colorado by Campbell Pacific Nuclear Corporation.

[Signature]

INSTRUCTOR

[Signature]

RADIATION SAFETY OFFICER

Certificate of Completion

This is to certify that EVELYN VIGIL has completed the basic training
course on Radiation Safety and Use of Nuclear Soil Gauges held
this 9th day of April 19 35, held at Bureau of Reclamation City of Alamosa

State of Colorado by Campbell Pacific Nuclear Corporation.

[Signature]

INSTRUCTOR

[Signature]

RADIATION SAFETY OFFICER

Certificate Of Completion

This is to certify that Robert E. Riley has completed the basic training
course on Radiation Safety and Use of Nuclear Soil Gauges, held
this 9th day of April 19 85, held at Bureau of Reclamation City of Alamosa

State of Colorado by Campbell Pacific Nuclear Corporation.



INSTRUCTOR



RADIATION SAFETY OFFICER

Certificate of Completion

This is to certify that JOHN BRADY has completed the basic training

course on Radiation Safety and Use of Nuclear Soil Gauges, held

this 9th day of April 1985, held at Bureau of Reclamation City of Alamosa

State of Colorado by Campbell Pacific Nuclear Corporation.

[Signature]

INSTRUCTOR

[Signature]

RADIATION SAFETY OFFICER

Certificate of Completion

This is to certify that Doug Gober has completed the basic training
course on Radiation Safety and Use of Nuclear Soil Gauges held

this 9th day of April 19 85, held at Bureau of Reclamation City of Alamosa

State of Colorado by Campbell Pacific Nuclear Corporation

[Signature]
INSTRUCTOR

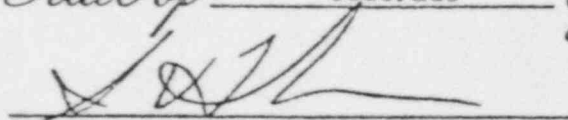
[Signature]
RADIATION SAFETY OFFICER

Certificate Of Completion

This is to certify that Steve Radcliff has completed the basic training
course on *Radiation Safety and Use of Nuclear Soil Gauges*, held

this 9th day of April 1985, held at Bureau of Reclamation City of Alamosa

State of Colorado by Campbell Pacific Nuclear Corporation.



INSTRUCTOR



RADIATION SAFETY OFFICER

Certificate Of Completion

This is to certify that Michael S. Carrington has completed the basic training
course on *Radiation Safety and Use of Nuclear Soil Gauges*, held
this 9th day of April 1985, held at Bureau of Reclamation City of Alamosa
State of Colorado by *Campbell Pacific Nuclear Corporation*.


INSTRUCTOR


RADIATION SAFETY OFFICER



United States Department of the Interior

BUREAU OF RECLAMATION

SOUTHWEST REGION

COMMERCE BUILDING, 714 S. TYLER, SUITE 201

AMARILLO, TEXAS 79101

Jay

IN REPLY

REFER TO: 160

SEP 10 1985

U.S. Nuclear Regulatory Commission
Region IV
Attention: R. J. Everett, Chief, Nuclear
Materials Safety Section
611 Ryan Plaza, Suite 1000
Arlington, Texas 76011

Dear Mr. Everett:

Due to a change in Safety Office staffing, please amend our materials license number 42-12225-02; delete Joseph L. Dargan, Jr., from block 3, name and title of person to be contacted, and block 7, Radiation Protection Officer, of NRC Form 313 1 and enter Robert E. Riley, Regional Safety Engineer, in these blocks.

Thank you for your cooperation.

Sincerely,

Eugene Hinds
Eugene Hinds
Regional Director
ACTING FOR

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