



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

OCT 28 1982

DOCKET NO.: 40-8745

MEMORANDUM FOR: William O. Miller, Chief, LFMB, ADM

FROM: John Linahan

SUBJECT: MATERIALS LICENSE AMENDMENT CLASSIFICATION

Applicant: Ogle Petroleum Inc.
License No.: SUA-1396 Fee Category: 2B
Application Dated: 10/4/82 Received: 10/13/82
Applicant's Classification: NONE

The above application for amendment has been reviewed by URFO in accordance with §170.31 of Part 170, and is classified as follows:

1. Safety and Environmental Amendments to Licenses in Fee Categories 2A, 2B, and 2D.
 - (a) Major safety and environmental
 - (b) Minor safety and environmental
 - (c) Administrative or 2D Category ☒
2. Justification for reclassification of an application: _____
3. The application was filed (a) _____ pursuant to written NRC request and the amendment is being issued for the convenience of the Commission, or (b) _____ other (state reason): _____

MAIL CONTROL #: 20781 Signature: J. J. Linahan
Uranium Recovery Field Office

CASEWORK #: 040087453018

CHECK INCLUDED: yes ☒ no

Amount, date, # on check: _____

MATERIALS DATA INPUT—INDUSTRIAL, MEDICAL, SOURCE/SPECIAL NUCLEAR

A. TYPE OF ACTION AND IDENTIFICATION CODES

TYPE OF RENEWAL IDENTIFICATION CODES				DOCKET NUMBER	MAIL CONTROL NUMBER	CHANGE NAME ADDRESS ("X" box)
NEW LICENSE	AMENDMENT TO RENEW LICENSE	AMENDMENT TO TERMINATE	VOID			
NEW LICENSE AND NEW LICENSEE	X OTHER AMENDMENT	CLERICAL CHANGE NO AMENDMENT 4		040-08745	20763	X

B. INDICATIVE INFORMATION

INDIVIDUAL LICENSEES	NAME (Last, First, Middle)	NAME (Last, First, Middle)
	NAME (Last, First, Middle)	NAME (Last, First, Middle)
	NAME (Last, First, Middle)	NAME (Last, First, Middle)

ORGANIZATION	ORGANIZATION NAME (Alphabetic Sequence)
	Ogle Petroleum Inc.
	DEPARTMENT OR BUREAU

LICENSEES				
ADDRESS	BUILDING STREET	CITY	STATE	ZIP CODE
	150 North Nichols Avenue	Casper	WY	82501

TYPE OF APPLICANT	U.S. GOVERNMENT AGENCY	DATE REQUEST RECEIVED	INSTITUTION CODE	PENDING PROG. CODE	ACTUAL PROG. CODE
	INDIVIDUAL LICENSEE				
	ORGANIZATIONAL LICENSEE	10/13/82	18091		

SECONDARY PROGRAM CODES (As required)

#1	#2	#3	#4	#5
LICENSE NUMBER SWA-1396		DATE LICENSE ISSUED OR ACTION COMPLETED		EXPIRATION DATE

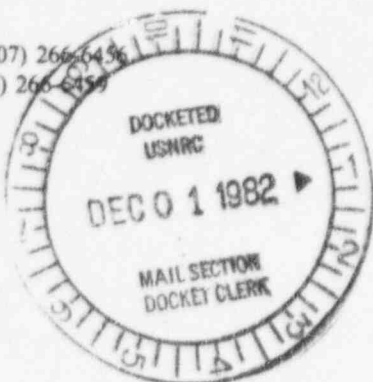
BYPRODUCT	CHEMICAL OR PHYSICAL FORM	POSSESSION LIMIT

OGLE PETROLEUM INC.

40-8745

TELEPHONE (307) 266-6456
TELECOPY (307) 266-6459

150 NORTH NICHOLS AVENUE
CASPER, WYOMING 82601



October 4, 1982



John J. Linehan, Section Leader
Operating Facility Section I
Uranium Recovery Licensing Branch
Division of Waste Management
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

RE: License Amendment No. 3
Source Material License
No. SUA-1396
Docket No. 40-8745

Subject: Health Physics Training for RSO

Dear Mr. Linehan:

License Amendment No. 3 states that the Radiation Safety Officer (RSO) for the Bison Basin Project must complete the Specialized Health Physics Training by December 31, 1982. Ogle Petroleum's RSO needs two weeks of formalized instruction in health physics in order to fulfill the four weeks training requirement.

Ogle Petroleum Inc. (OPI) conducted an extensive search to locate health physics courses of sufficient length to meet the requirement of License Condition No. 3. To date we have only been able to find one course being offered before December 31, 1982 that we feel meets the NRC requirements. The course is one week in length. The course title is "Radiation Protection" and is being put on by Engineering Technology, Inc. in Anaheim, California during the period October 25th through the 29th, 1982. The OPI RSO is registered for the above course. A brochure that includes a course outline is enclosed.

At the completion of the October 25-29, 1982 course in Anaheim, our RSO will still be short one week of formalized health physics training. It is requested that the NRC advise OPI as to what action we should take to try and fulfill the training requirement of Amendment No. 3. In the event no other suitable

Applicant
Check No.	4883
Amount/Fee Category	150-2B
Type of Fee	Admin
Date Check Recd.	11/19/82
Received By	WV 82-3

OFFICIAL DOCKET COPY

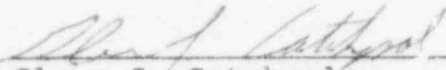
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course is offered this year, we suggest a six month extension of the training date deadline. The results of the recent inspection of OPI's Bison Basin Mine by the NRC Region IV I & E staff documents the fact that we currently have a sound radiation safety program.

Sincerely,
OGLE PETROLEUM INC.


Glenn J. Catchpole
Vice President and Uranium
Project Manager

GJC:me

cc: Document Management
Branch, NRC (W/Enc.)

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OGLE PETROLEUM INC.

PREREQUISITES

Students should have a general understanding of Elementary Chemistry, Atomic Structure, and Physics, and should be able to perform simple Algebraic Calculations, including Logarithmic and Exponential functions.

CERTIFICATE

A certificate of completion will be awarded by Engineering Technology, Incorporated.

Those participants successfully completing the course requirements are awarded 3 Continuing Education Units (CEU'S).

The CEU is the national standard for recognition of non-university professional education. It has been adopted by extension service divisions of over 600 colleges, by numerous professional associations, and by other specialized educational groups. A permanent record of CEU awards is maintained by Engineering Technology, Inc.

REGISTRATION

RADIATION PROTECTION will be offered on two occasions in 1982 during the periods of July 26-30, 1982, Los Alamos, NM, and October 25-29, 1982, Anaheim, CA. The \$650.00 fee for each five-day course includes the course tuition, course text and notes (copies of visuals), meeting materials, and break refreshments. Registrations may be made by telephone and later confirmed by submitting the attached registration form and mailing it to:

SHORT COURSE DIRECTOR
ENGINEERING TECHNOLOGY, INC.
P. O. BOX 9000
WACO, TX 76710 or Telephone (817) 772-0082

Prepayment of registration fees is requested, although payment the first day of the course is acceptable. Registration fees may also be billed provided an authorized purchase order form is received prior to course commencement. Make checks payable to: **ENGINEERING TECHNOLOGY, INC.**

CANCELLATION POLICY: Registrants who cancel more than one week prior to the course are not subject to the course registration fee or service charge. Registrants whose cancellations are received 1-5 working days prior to the course are subject to a \$50.00 cancellation fee. Registrants failing to cancel prior to course commencement are subject to the entire registration fee but will receive the text and course notes. Substitutions may be made at any time.



	MOND
	RADIATION PH Atomic and N • The Nucle • Nuclear Fo Stability • Mass/Ener tionships • Introducti Radioactiv Radioactive D and Half Life • Fundamen Law • Specific A • Types of P • Decay Sch • Chart of th • Natural R activity
MORNING SESSION 8:00 AM - 12:00 NOON	
AFTERNOON SESSION 1:30 PM - 5:00 PM	RADIATION PH (cont.) Radiation Int with Matter • Ionization Excitation • Charged P Interactio • X-Ray and Ray Intera Production of • Characteri X-Rays • Bremsstra


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The following hotels/motels until two weeks prior to the rectly and specify that you. This will assure that you rec charges are th responsibility

RADIATION PROTECTION

COURSE OUTLINE

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	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
ATOMICS Atomic Structure Atomic Energy and Radioactivity Decay Half-life Radioactive Nuclides Alpha Beta Gamma X-Rays Neutrons Positrons Antineutrinos Synthesis Fission Fusion Transmutation Radioactive Decay Half-life Radioactive Nuclides Alpha Beta Gamma X-Rays Neutrons Positrons Antineutrinos Synthesis Fission Fusion Transmutation	BIOLOGICAL EFFECTS OF RADIATION Understanding Radiation Effects • Linear and Threshold Effects • Radiosensitivity • Direct and Indirect Effects • Acute Effects • Delayed Effects • Somatic and Genetic Effects RADIATION PROTECTION STANDARDS AND MONITORING Maximum Permissible Radiation Exposures Personnel Monitoring Techniques	LEGAL BASES OF RADIATION Code of Federal Regulations State Regulations PERSONNEL MONITORING Personnel Dosimeters Internal Dose Determinations  Also Available on Aperture Card	APPLIED RADIATION CONTROL Operations with Radioactive Materials Shielding • Working with Radioactive Materials • Basic Radiation Principles • Laboratory Practices • Procedures Contamination Control • Biological Effects	ENVIRONMENTAL MONITORING Philosophy Radiological vs. Non-Radiological Radiological Pathways Evaluation of Risk EMERGENCY RESPONSE Emergency Planning Emergency Exercises Management of the Emergency Situation
ATOMICS Atomic Structure Atomic Energy and Radioactivity Decay Half-life Radioactive Nuclides Alpha Beta Gamma X-Rays Neutrons Positrons Antineutrinos Synthesis Fission Fusion Transmutation Radioactive Decay Half-life Radioactive Nuclides Alpha Beta Gamma X-Rays Neutrons Positrons Antineutrinos Synthesis Fission Fusion Transmutation	RADIOLOGICAL UNITS Exposure (The Roentgen) Dose (The Rad, Grey) Dose Equivalent (Rem, Sievert, QF, LET) Activity (Curie, Becquerel) RADIATION PROTECTION STANDARDS Maximum Permissible Dose and Concentration Radiation Concentration Guides Standards Process	MEASUREMENT OF RADIATION Radiation Detectors Radiation Monitoring Techniques Radioactivity in Air and Water Portable Survey Instruments	RADIOACTIVE WASTE DISPOSAL Sources of Radioactive Waste Gaseous Waste Treatment Systems Liquid Waste Treatment Systems Waste Management in the Nuclear Fuel Cycle Disposal of Radioactive Waste	

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RESERVATIONS

We have reserved blocks of guest rooms for course participants. We recommend you contact the hotel directly for reservations. We are attending the Engineering Technology, Inc. short course. We have the indicated rate. Room reservations, meals, and hotel of the individual course participant.

July 26-30, 1982 Los Alamos, NM

HILLTOP HOUSE

Trinity at Central

Los Alamos, NM 87544 SINGLES: \$27.50

Phone: (505) 662-2441 DOUBLES: \$34.00

October 25-29, 1982 Anaheim, CA

QUALITY INN/ANAHEIM

616 Convention Way

Anaheim, CA 92802 SINGLES: \$27.50

Phone: (714) 750-3131 DOUBLES: \$34.00

RADIATION PROTECTION

A SHORT COURSE

Developed and Conducted by

ENGINEERING TECHNOLOGY, INC.

P. O. Box 9000 Waco, TX 76710
(817) 772-0082

JULY 26-30, 1982
LOS ALAMOS, NM

OCTOBER 25-29, 1982
ANAHEIM, CA

WITH COURSE INSTRUCTIONAL MODULES PROVIDED BY
CENTER FOR OCCUPATIONAL RESEARCH AND DEVELOPMENT

COURSE DESCRIPTION

RADIATION PROTECTION is a one week, intensive course which provides an overview of the basic scientific and engineering principles of radiation protection. The course is primarily descriptive and does not require mathematics or theoretical rigor. This course will be of interest to practicing safety professionals, engineers, and technical personnel involved with radiation protection in an ancillary or major capacity as to radiation protection technicians, radiographers, researchers, and those who work with ionizing radiations and radioactive materials. Topics discussed include:

- Atomic Structure and Radioactivity
- Radioactive Decay
- Production of X-Rays
- Biological Effects of Radiation
- Radiation Protection Standards
- Legal Bases of Radiation Control
- Radiation Units
- Measurement of Radiation
- Personnel Monitoring
- Operations with Radioactive Materials
- Contamination Control
- Disposal of Radioactive Wastes

FACULTY

DR. GEORGE H. NICKEL, Ph.D., Applied Science and Engineering, University of California at Davis, and Masters Degree, Mechanical Engineering, University of Illinois. Dr. Nickel's 22 years of experience in nuclear engineering includes calculation of reactor core design, the General Atomic Company and nuclear weapon research at Los Alamos and Lawrence Livermore National Laboratory. He has worked for the Department of Energy, the U. S. Air Force Weapons Laboratory, and the Air Force Technical Applications Center. He was a participant in the last atmospheric nuclear test series in 1962 where he investigated very high altitude nuclear detonations, both experimental data and theoretical models and has developed techniques for the detection of atomic tests.

Dr. Nickel is currently on the Los Alamos National Laboratory staff where he conducts research on thermonuclear applications. Prior to his current position, he was an Associate Professor of Nuclear Engineering, Physics Department, Air Force Institute of Technology (AFIT) where he lectured graduate-level students and senior government civilian personnel on the effects of nuclear weapons. His teaching experience also includes courses in physics and mathematics at the University of Albuquerque, the University of Technology, and the Brevard Community College, Cocoa, Florida.

George has written numerous published, technical papers and holds one patent. George will lecture in the Radiation Protection Management Course in Los Alamos, New Mexico.

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FACULTY

DR. RICHARD V. GRIFFITH, Division Leader, Special Projects Division, Lawrence Livermore National Laboratory (LLNL). Dr. Griffith has over 20 years of experience in Applied Radiation Control, Hazards Analysis and Control, and Biophysics Research related to neutron dosimetry/spectrometry and the formulation of tissue equivalent materials for radiation measurements. In his previous capacity as a Senior Investigator, Hazards Control Department, LLNL, Dr. Griffith's specialties included: Radiation Dosimetry, Neutron Spectrometry, Whole Body Counting and Calibration, and Nuclear Charged Particle Track Etch Detectors. His current research efforts include the development of a Neutron Dosimeter/Spectrometer for the Department of Energy and the development and fabrication of a set of realistic torso phantoms for calibration of plutonium lung counters by DOE laboratories and the International Atomic Energy Agency. He is a member of the Health Physics Society; is Chairman of the International Atomic Energy Agency (IAEA) Committee to develop the Compendium of Neutron Spectra for Health Physics Purposes, to be published as an IAEA Technical Report; is Chairman of ANSI Working Group to Develop ANSI N319-1976, Personnel Neutron Dosimeters (Neutron Energies Less than 20 MeV); and is a Past Chairman, National Division of the Health Physics Society Standards Committee. Dick is the author of numerous papers documenting his research efforts which have been published within professional journals and the technical proceedings of the International Atomic Energy Agency Symposia and the International Congress of the International Radiation Protection Association. Dick will lecture in both Radiation Protection course offerings.

DR. ARTHUR E. DESROSIER, PhD., Harvard University. As a Senior Research Scientist, Battelle-Northwest Laboratory, Dr. Desrosiers conducts research in occupational and environmental standards, risk analysis, and radioactive disposal. He is experienced in the evaluation of radiological monitoring equipment for atomic munitions and the development of internal dosimetry models. He has led radiation survey teams in the study of work habits which had led to unnecessary exposures in the transportation of radiopharmaceuticals. While at Yankee Atomic Electric Company, Dr. Desrosiers developed environmental radiological surveillance programs and prepared specifications for radiation surveillance. Art's graduate studies include Nuclear Engineering at the University of Illinois and Radiation Protection Engineering and Environmental Health Sciences at Harvard University. Art will lecture in the Radiation Protection course in Anaheim, California.

**ANSTEC
APERTURE
CARD**

**Also Available on
Aperture Card**

ABIH CERTIFICATION

ABIH Maintenance Certification points are awarded to participants successfully completing this course.

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OGLE PETROLEUM INC.

TELEPHONE (307) 266-6456
TELECOPY (307) 266-6459

150 NORTH NICHOLS AVENUE
CASPER, WYOMING 82601

November 15, 1982

Douglas Weiss
License Fee Management Branch
Office of Administration
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555



RE: License No. SUA-1396
Docket No. 40-8745
Control No. 20781

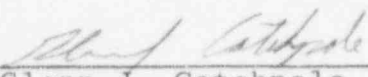
Subject: Administrative Amendment
Request

Dear Mr. Weiss:

In response to your letter dated November 10, 1982 (copy enclosed) Ogle Petroleum Inc. herewith forwards a check in the amount of \$150.00 to cover the Administrative Amendment Request Fee.

It is further requested that, due to the slow down in the offering of radiation safety schools, the extension period mentioned in our October 4, 1982 letter be changed from 6 months to 12 months. 11

Sincerely,
OGLE PETROLEUM INC.


Glenn J. Catchpole
Vice President and
Uranium Project Manager
LIC. FEE MGMT. BRANCH
U.S. N.R.C.

GJC:me
Enclosure

cc: Document Management Branch

82 NOV 18 AM 1:33

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