

VOID SHEET

TO: License Fee Management Branch

FROM: Region IV

SUBJECT: VOIDED APPLICATION

Control Number: 463108

Applicant: Antelope Coal Co.

Date Voided: 7/2/90

Reason for Void: Combined with
renewal (M/C # 463112), no
review accomplished. (See note below
to gather)

9011090144 900702
REGA LIC90
MATLSLICENSING PDR

Bettie Bruszyński 7/2/90
Signature Date

Attachment:
Official Record Copy of
Voided Action

FOR LAMB USE ONLY

Final Review of VOID Completed:

- Refund Authorized and processed
- No Refund Due
- Fee Exempt or Fee Not Required

Comments: Review was initiated Log completed
in several days & receipt
of this app. by phone call Processed by: W. Masovi
6/28/90

(FOR LFMS USE)
INFORMATION FROM LTS

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

PROGRAM CODE: 03120
STATUS CODE: 0
FEE CATEGORY: 3P
EXP. DATE: 19900630
FEE COMMENTS: _____

LICENSE FEE TRANSMITTAL

A. REGION 10

1. APPLICATION ATTACHED
APPLICANT/LICENSEE: ANTELOPE COAL CO.
RECEIVED DATE: 900612
DOCKET NO: 3029770
CONTROL NO.: 463108
LICENSE NO.: 49-26875-01
ACTION TYPE: AMENDMENT

2. FEE ATTACHED \$60.00
AMOUNT:
CHECK NO.: 10601391

3. COMMENTS

SIGNED *Billie Gruszynski*
DATE 6/12/90

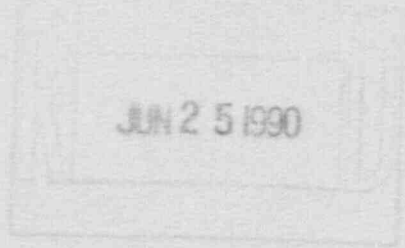
B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED)

1. FEE CATEGORY AND AMOUNT: 3P (\$60)

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:
AMENDMENT
RENEWAL _____
LICENSE _____

3. OTHER _____

SIGNED *M. Messin*
DATE 6/15/90



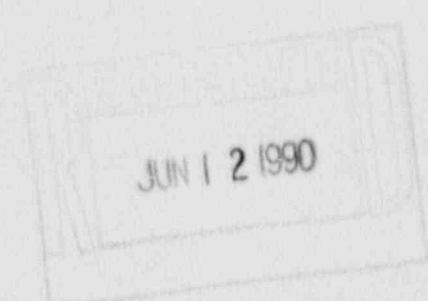
ANTELOPE COAL COMPANY
P.O. DRAWER 1450
DOUGLAS, WYOMING 82633
TELEPHONE 307-464-1133
FAX # 307-464-1204



June 1, 1990

Ms. Vivian Campbell
U.S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 1000
Arlington, TX 76053

RE: License No. 49-26875-01



Dear Ms. Campbell:

This letter will clarify our telephone conversation on this morning regarding the amendments to the above license.

The correct mailing address for all correspondence is:

Antelope Coal Company
P.O. Drawer 1450
Douglas, WY 82633
Telephone: (307)464-1133

Please delete Donald E. Burkhart, Jr. from the license as he is no longer employed by Antelope Coal Company. The designated responsible party and Radiation Safety Officer is Larry E. Goodell.

Under the direction of Mr. Goodell, other personnel may be users of the sealed source device. Any personnel who are users of the device will receive training, which will be given by Mr. Goodell, and follow the same guideline as outlined in the license on file.

A copy of Mr. Goodell's training and outline of the class will accompany this letter.

Also, in the amendment we would like to have Item 11 read: Licensed material shall be used by, or under the supervision of, Larry E. Goodell. Item 13-D to read: The licensee is authorized to collect leak test samples for analysis for Kay-Ray, or tests for leakage and/or contamination shall be performed by licensee and/or persons specifically licensed by the commission or an agreement state to perform such services.

Completion of application for material license amendment:

- #5 Kay-X / 4800-X sealed source cesium-137 (50MC), 1 gauge.
- #6 Used as level gauge in coal crusher.
- #7 Larry E. Goodell (copy of certification).

Licensee Fee Information
application.

463108

Ms. Vivian Campbell
U.S. Nuclear Regulatory Commission
June 1, 1990
Page Two

- #8 As per license (copy)
- #9 No problem with extreme heat. Externally mounted on crusher hopper.
- #10 In the past Health Physics Associates, Ltd. NRC #25-16166-01, but we would like to do our own leak testing from time to time.

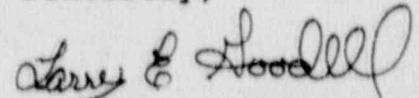
Survey meter - Texas Nuclear Model 200X, thin end window, GM-TUBE.

$$\text{Formula} = \frac{A}{M1} = \frac{C}{M2} \text{ or } C = A (\cancel{M1}) \times \frac{M2(\text{mr/h})}{M1(\text{mr/h})}$$

- #11 Health Physics Associates NRC #25-16166-01

The application for license is also enclosed along with the fee.

Sincerely,



Larry E. Goodell
Employee Relations
and Safety Assistant
Radiation Safety Officer

LEG:llw
Enclosures
Radiation.leg

APPLICATION FOR MATERIAL LICENSE

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

APPLICATIONS FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION
DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY, NMSS
WASHINGTON, DC 20555

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS, IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, VERMONT SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I
NUCLEAR MATERIALS SAFETY SECTION B
475 ALLENDALE BLVD
KING OF PRUSSIA, PA 19396

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION II
NUCLEAR MATERIALS SAFETY SECTION
101 MARIETTA STREET, SUITE 2800
ATLANTA, GA 30302

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION III
MATERIALS LICENSING SECTION
790 ROOSEVELT ROAD
GLEN ELLYN, IL 60137

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
MATERIAL RADIATION PROTECTION SECTION
611 RYAN PLAZA DRIVE, SUITE 1000
ARLINGTON, TX 76011

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION V
NUCLEAR MATERIALS SAFETY SECTION
1482 MARIA LANE, SUITE 210
WALNUT CREEK, CA 94696

JUN 12 1990

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTION.

1. THIS IS AN APPLICATION FOR (Check appropriate item):

- A. NEW LICENSE
- B. AMENDMENT TO LICENSE NUMBER 49-26875-01
- C. RENEWAL OF LICENSE NUMBER _____

2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code):

Antelope Coal Company
P.O. Drawer 1450
Douglas, WY 82633

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED:

Antelope Coal Company
P.O. Drawer 1450
Douglas, WY 82633

Antelope Creek and Convrse County
Road No. #37.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION:

Larry E. Goodell

TELEPHONE NUMBER

(307)464-1133

SUBMIT ITEMS 5 THROUGH 11 ON 8 1/2" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL
a. Element and mass number, b. chemical and/or physical form, and c. maximum amount which will be possessed at any one time.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)
FEE CATEGORY 3 AMOUNT ENCLOSED \$ 60

13. CERTIFICATION: (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948, 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

FULLY FALSE STATEMENT OR REPRESENTATION

SIGNATURE—CERTIFYING OFFICER

TYPED/PRINTED NAME

TITLE

DATE

Larry E. Goodell

Larry E. Goodell

Empl. Relations
Safety Assistant

06-01-90

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	COMMENTS
Amend	gen 2-IV	3P	

AMOUNT RECEIVED	CHECK NUMBER
\$60	10601391

APPROVED BY

DATE

M. Messin

6/19/90

Certificate Of Training

This is to certify that

LARRY E. GOODELL

Has Successfully Completed a Radiation Safety Training Course
presented by Texas Nuclear Corporation.



Issued 18TH Day Of MAY 19 90

W. Hendrick
Health Physicist

John Nelson
President



AGENDA
TEXAS NUCLEAR
RADIATION SAFETY TRAINING COURSE

Radioactive Materials

- A. Isotopes
- B. Decay
- C. Half-Life

Types of Radiation

Radiation Interaction with Matter

- A. Ionizing Radiation
 - 1. Electromagnetic
 - 2. Charged Particle
 - 3. Neutron
- B. Specific Ionization

Radiation Dosimetry

- A. Definitions and Units of Dose
- B. Quality Factor
- C. Gamma Exposure Rate
- D. Neutron Exposure Rate

Distance, Time, Shielding

- A. Inverse Square Law
- B. Half-Value Layer

Biological Effects

- A. Dose Limits
- B. Radiation Protection Guides

Radiation Detection

- A. Detection Instruments
 - 1. Basic Operation
 - 2. Survey Meters

Radiation Safety Training Course
Agenda
Page 2

Personnel Monitoring

Working Definitions

Preparation for Laboratory

- A. Form Review
- B. Team Assignment
- C. Surveying and Leak Testing Demonstration

Laboratory Work at Texas Nuclear Corporation

- A. Check-out and re-briefing on use of portable radiation survey meters
- B. Survey Density, Level or Belt Weigh Scales
- C. Prepare Survey Forms
- D. Leak Test Devices Using QT/1S Procedure
- E. Count Swabs
- F. Prepare Leak Test Certificates

Regulatory Control

- A. Title 10 Code of Federal Regulations
- B. Agreement States
- C. Licensing Procedures
- D. Purpose of Licensing
- E. User Responsibility
- F. Radiation Areas and Posting

Shipping Radioactive Material

Occupational Safety & Health Act

Emergency Procedures

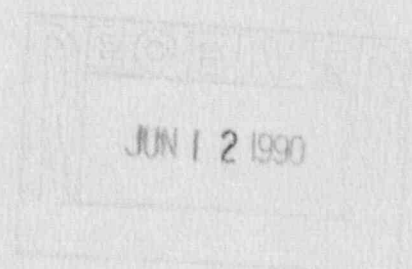
- A. Guidelines
- B. Fire or Explosion
- C. Incident Report

Summary of Topics

- A. Role of Radiation Safety Personnel
- B. Class Discussion

Written Test on Lectures and Homework Assignments

Note: Homework (approximately 2 hours) is assigned each night during the course.



**ANTELOPE COAL COMPANY
TRAINING OUTLINE
FOR
SEALED SOURCE DEVICE USERS**

PURPOSE

Train users in the safe operation of the sealed source device.

APPLICABILITY

All personnel who are to be designated as users must be trained by the Radiation Safety Officer before being so designated.

TOPICS

The training will include at a minimum the following topics.

1. Ionizing radiation
 - A. Types
 - B. Characteristics
 - C. Sources
 - D. Quantities
2. Sources of exposure to radiation
3. Health hazards of radiation
 - A. Irradiation
 - B. Contamination
 - i. Internal
 - ii. External
4. Protective measures
 - A. Shielding
 - B. Distance
 - C. Time
5. Radiation Monitoring
6. Emergencies involving radioactive materials
7. NRC requirements and regulations
8. Records

9. Operation of the Kay-Ray 4800X sealed source device

- A. Testing
- B. Records
- C. Operation
- D. Postings
- E. Emergencies

- i. Operations
- ii. Notification

Evaluation

Users will be evaluated on their knowledge by their active participation in the training and a written examination, a score of 75% is required to pass.

Instruction

Methods of instruction will include oral instruction, handout materials and audio/visual materials as appropriate. Instruction time will be sufficient for potential users to grasp the information however it will not be less than 2 hours.

Sincerely yours,

Larry E. Goodell
Larry E. Goodell
Employee Relations/Safety
Radiation Safety Officer

JUN 12 1990

463108