

03020444



# Boothe-Twining, Inc.

ADMINISTRATIVE OFFICE: 4411 DUPONT COURT, SUITE 100, VENTURA, CALIFORNIA 93003  
MAILING ADDRESS: POST OFFICE BOX 5587, OXNARD, CALIFORNIA 93031  
VENTURA (805) 658-6811 — BAKERSFIELD (805) 327-2900 — LONG BEACH (213) 427-1129

AE: 40

February 3, 1989

U.S. Nuclear Regulatory Commission  
Region 5  
Material Radiation Protection Section  
1450 Maria Lane, Suite 210  
Walnut Creek, CA. 94596

Attention: Beth A. Riedlinger  
Radiation Safety Specialist  
Radioactive Materials Licensing

Subject: Amendment Request, License No. 04-19522-01

Dear Ms. Riedlinger,

Boothe-Twining, Inc., respectfully requests an amendment to our NRC License No. 04-19522-01 as follows:

- 1) Due to continual financial hardship, Mr. Tom W. Cuthbertson has left full-time employment with Boothe-Twining, Inc. Mr. Cuthbertson will once again assume the position of Radiation Safety Consultant for BTI as of January 30, 1989. We, therefore, request an amendment to Condition 10B to delete Mr. Cuthbertson as Radiation Safety Officer and add Robert L. Boothe. Mr. Fred Stough will assume the position of Alternate RSO. Mr. Cuthbertson, under the terms of the State of California settlement order, will be active in BTI's Radiation Safety Program at least 16 hours per month.

A revised Radiation Safety Organization Chart (January 30, 1989) is attached.

- 2) Amend Condition 11 to delete record address of 4411 Dupont Court, Ventura, CA.; and add 306 Cactus Drive, Oxnard, CA., 93030, Phone number 805-485-2205.

Feb - F.V

144  
#230  
30  
Amend  
2/10/89  
2/13/89  
Rusner

9002070456 890501  
REGS LIC30  
04-19522-01 PDR

NON-DESTRUCTIVE TESTING

70917



REG ONLY

February 3, 1989  
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Amendment Request, License No. 04-19522-01

7 18:40

3) Amend Condition 10A to add the following Radiographers:

- ✓ a) John Hoffman
- ✓ b) Terry Koch
- ✓ c) Les Smith
- ✓ d) Alan Lee Barnes
- ✓ e) Bob Jensen

Attached please find the above named individuals Training, Qualification and Experience.

4) Amend Condition 10A to add the following Assistant Radiographers:

- ✓ a) Rudy Martinez
- ✓ b) Ron Wagoner
- ✓ c) Billy Helt
- ✓ d) Steve W. Egan
- ✓ e) Richard L. Wampler

Attached please find the above named individuals Training, Qualification and Experience.

Included in this correspondence is a check for \$230.00 to cover the amendment fee.

Your cooperation in expediting the above amendment request would be appreciated.

Sincerely,

Robert L. Boothe  
President

RLB/TWC:jmc

Attachments

APPENDIX A

Revised

January 30, 1989

OVERALL ORGANIZATIONAL STRUCTURE

RADIATION SAFETY ORGANIZATION

EXECUTIVE SAFETY  
COMMITTEE

Robert L. Boothe  
President

Vice President

ROBERT L. BOOTHE

Radiation Safety Officer

FRED STOUGH

Alternate Radiation Safety Officer

TOM W. CUTHBERTSON

Outside Consultant

Radiographers

Radiographers'  
Assistant

Trainee  
Radiographers



**CERTIFICATION OF RADIATION SAFETY TRAINING  
RADIOGRAPHERS' ASSISTANT**

I Radiographers' Assistant Richard L. Wampler Date of Hire 2/2/89

Date of Birth 8/19/51 Social Security No. 296-44-3433 Jobsite Long Beach

II The above named individual has satisfactorily complete Boothe-Twining's informative instructions and testing for Radiographer Trainee as specified below.

1. Attended informative instruction of the topics outlined as follows:

a) Basic Radiation Safety

b) Needs and requirements for personnel monitoring

(Min. Four (4) Hrs)

No. of Hrs. 4

Date 2-2-89

2. Past a written examination and oral review on basic radiation safety at the conclusion of the four (4) hours of instruction (~~Basic Radiation Quiz~~).

Assistant Radiographer Exam Score 74% Date 2-2-89

III. Completed a minimum of one (1) week on-the-job training as a Radiographer Trainee.

Date From        To       

IV. The above named individual has satisfactorily completed the Company's Radiographers' Assistant Training and Testing as specified below.

1. Attended instruction on the topics outlined as follows:

a) Operating and Emergency Procedures

Date 2-2-89

b) Radiography Equipment

Date 2-2-89

2. Successfully completed the written examination and oral review associated with the position of Radiographers' Assistant.

Date 2-2-89 74%

V. I hereby certify the above information is correct to the best of my knowledge.

Richard L. Wampler  
Signature of Radiographers' Assistant

Date 2/2/89

[Signature]  
Individual Administering Training/Exam

Date 2-2-89

Approved by the RSO

[Signature] Date 2-2-89



RADIATION SAFETY TRAINING CERTIFICATION

PRACTICAL EXAMINATION -- ASSISTANT RADIOGRAPHER

Individual's Name Richard L. Wampler Date 2/2/89  
Date of Birth 8/19/51 Social Security No. 296-44-3933  
Jobsite Long Beach Examiner TWC Score 85%

| <u>Points</u> |   | <u>Points Received</u> |
|---------------|---|------------------------|
| 20            | 1. Basic knowledge of Radiation Safety.   | <u>18</u>              |
| 20            | 2. Familiarization and understanding of the Operating and Emergency Procedures. | <u>16</u>              |
| 5             | 3. Follows instructions.  | <u>4</u>               |
| 5             | 4. Shows care and concern in handling equipment.                                | <u>4</u>               |
| 20            | 5. Understands the procedure for the safe handling of exposure devices.         | <u>19</u>              |
| 10            | 6. Takes the proper steps in sequence before making an exposure.                | <u>8</u>               |
| 10            | 7. Uses the survey meter properly.  | <u>8</u>               |
| 10            | 8. Understands requirements in Federal and/or Agreement State Regulations.      | <u>8</u>               |

Note: A minimum of 80 points is required for passing this examination.

REMARKS OF THE EXAMINER \_\_\_\_\_

EXAMINER

[Signature]

DATE

2-2-89

American Society for



Nondestructive Testing

*This is to certify that*

***RICHARD L. WAMPLER***

*has successfully completed the Educational Curriculum,  
has maintained the required attendance and has  
demonstrated proficiency by satisfactory completion  
of an examination on the subject of*

**COURSE NO. 301 B**

**NUCLEAR RADIOLOGICAL HEALTH & SAFETY**

*Presented by* **THE LOS ANGELES SECTION**

*Given this* 15th *day of* DEC. *19*86

A handwritten signature in cursive script, positioned above the instructor's title.

INSTRUCTOR

A handwritten signature in cursive script, positioned above the section chairman's title.

SECTION CHAIRMAN

A handwritten signature in cursive script, positioned above the educational chairman's title.

EDUCATIONAL CHAIRMAN

**CERTIFICATION OF RADIATION SAFETY TRAINING  
RADIOGRAPHERS' ASSISTANT**

I Radiographers' Assistant STEVE W. EGAN Date of Hire \_\_\_\_\_

Date of Birth FEB-11-63 Social Security No. 567-47-2422 Jobsite Long Beach

II The above named individual has satisfactorily complete Boothe-Twining's informative instructions and testing for Radiographer Trainee as specified below.

1. Attended informative instruction of the topics outlined as follows:

a) Basic Radiation Safety

b) Needs and requirements for personnel monitoring

(Min. Four (4) Hrs)

No. of Hrs. 4

Date 2-2-89

2. Past a written examination and oral review on basic radiation safety at the conclusion of the four (4) hours of instruction (~~Basic Radiation Quiz~~).

Assistant Radiographer Exam Score 74% Date 2-2-89

III. Completed a minimum of one (1) week on-the-job training as a Radiographer Trainee.

Date From \_\_\_\_\_ To \_\_\_\_\_

IV. The above named individual has satisfactorily completed the Company's Radiographers' Assistant Training and Testing as specified below.

1. Attended instruction on the topics outlined as follows:

a) Operating and Emergency Procedures

Date

2-2-89

b) Radiography Equipment

Date

2-2-89

2. Successfully completed the written examination and oral review associated with the position of Radiographers' Assistant.

Date

2-2-89 74%

V. I hereby certify the above information is correct to the best of my knowledge.

Steve Egan  
Signature of Radiographers' Assistant

Date 2-2-89

F. Fitchburn  
Individual Administering Training/Exam

Date 2-2-89

Approved by the RSO

F. Fitchburn

Date 2-2-89



RADIATION SAFETY TRAINING CERTIFICATION  
 PRACTICAL EXAMINATION -- ASSISTANT RADIOGRAPHER

Individual's Name STEVE W. EGAN Date 2-2-89  
 Date of Birth FEB-11-63 Social Security No. 567-47-8472  
 Jobsite Long Beach Examiner TWC Score 86

| <u>Points</u> |   | <u>Points Received</u> |
|---------------|---|------------------------|
| 20            | 1. Basic knowledge of Radiation Safety.   | <u>18</u>              |
| 20            | 2. Familiarization and understanding of the Operating and Emergency Procedures. | <u>18</u>              |
| 5             | 3. Follows instructions.  | <u>4</u>               |
| 5             | 4. Shows care and concern in handling equipment.                                | <u>4</u>               |
| 20            | 5. Understands the procedure for the safe handling of exposure devices.         | <u>18</u>              |
| 10            | 6. Takes the proper steps in sequence before making an exposure.                | <u>8</u>               |
| 10            | 7. Uses the survey meter properly.  | <u>8</u>               |
| 10            | 8. Understands requirements in Federal and/or Agreement State Regulations.      | <u>8</u>               |

Note: A minimum of 80 points is required for passing this examination.

REMARKS OF THE EXAMINER \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

EXAMINER \_\_\_\_\_ DATE \_\_\_\_\_

# Certificate

*Steve Egan*

---

has successfully completed the  
**RADIATION SAFETY COURSE**  
for  
**RADIOGRAPHERS**

PRESENTED BY  
**RICHARD DONELSON & ASSOCIATES**

---

*R. M. Donelson 10/30/84*

**CERTIFICATION OF RADIATION SAFETY TRAINING  
RADIOGRAPHERS' ASSISTANT**

I Radiographers' Assistant WILLIAM C. HELT Date of Hire 6-6-88

Date of Birth 4/6/66 Social Security No. 552-49-4196 Jobsite Bakerfield

II The above named individual has satisfactorily complete Boothe-Twining's informative instructions and testing for Radiographer Trainee as specified below.

1. Attended informative instruction of the topics outlined as follows:

- a) Basic Radiation Safety
- b) Needs and requirements for personnel monitoring  
(Min. Four (4) Hrs) No. of Hrs 4 Date 8-2-88

2. Past a written examination and oral review on basic radiation safety at the conclusion of the four (4) hours of instruction (Basic Radiation Quiz).  
Exam Score 76% Date 8-2-88

III. Completed a minimum of one (1) week on-the-job training as a Radiographer Trainee.  
Date From 7/18/88 To 7/23/88

IV. The above named individual has satisfactorily completed the Company's Radiographers' Assistant Training and Testing as specified below.

1. Attended instruction on the topics outlined as follows:
- a) Operating and Emergency Procedures Date 6-7-88 / 8-2-88
  - b) Radiography Equipment Date 6-7-88 / 8-2-88

2. Successfully completed the written examination and oral review associated with the position of Radiographers' Assistant.  
Date 8-2-88

V. I hereby certify the above information is correct to the best of my knowledge.

William C. Helt  
Signature of Radiographers' Assistant  
Date 8/2/88

[Signature]  
Individual Administering Training/Exam  
Date 8-2-88

Approved by the RSO Bob Boothe [Signature] Date 8-2-88



RADIATION SAFETY TRAINING CERTIFICATION  
PRACTICAL EXAMINATION -- ASSISTANT RADIOGRAPHER

Individual's Name William C. Helt Date 8-2-88  
Date of Birth 4-6-66 Social Security No. 532-49-4196  
Jobsite Bakersfield Examiner Jaw Score 857

| <u>Points</u> |   | <u>Points Received</u> |
|---------------|---|------------------------|
| 20            | 1. Basic knowledge of Radiation Safety.   | <u>15</u>              |
| 20            | 2. Familiarization and understanding of the Operating and Emergency Procedures. | <u>18</u>              |
| 5             | 3. Follows instructions.  | <u>5</u>               |
| 5             | 4. Shows care and concern in handling equipment.                                | <u>5</u>               |
| 20            | 5. Understands the procedure for the safe handling of exposure devices.         | <u>18</u>              |
| 10            | 6. Takes the proper steps in sequence before making an exposure.                | <u>8</u>               |
| 10            | 7. Uses the survey meter properly.  | <u>8</u>               |
| 10            | 8. Understands requirements in Federal and/or Agreement State Regulations.      | <u>8</u>               |

Note: A minimum of 80 points is required for passing this examination.

REMARKS OF THE EXAMINER \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

EXAMINER Jaw DATE 8-2-88

**CERTIFICATION OF RADIATION SAFETY TRAINING  
RADIOGRAPHER TRAINEE**

**I** Radiographer Trainee William C. Helt Date of Hire JUNE 6, 1988

Date of Birth 4/6/66 Social Security No. 552-49-4196 Jobsite \_\_\_\_\_

**II** The above named individual has received the following items:

- |               |                             |
|---------------|-----------------------------|
| 1. Film Badge | Date Received <u>6-7-88</u> |
| 2. Dosimeter  | Date Received <u>6-7-88</u> |

Note: If items were issued at time of hire, use the date.

**III.** The above-named individual has satisfactorily completed Boothe-Twining's informative instructions and testing for Radiographer Trainee as specified below:

1. Attended informative instruction on the topics outlined as follows:

- a) Basic Radiation Safety
- b) Needs and requirements for personnel monitoring. (Min. four (4) Hours)

- 1. Dosimeter
- 2. Film Badge
- 3. Dose Rate
- 4. Radiation Survey Meters
- 5. Controlling Radiation Dose

No. of Hrs. 4 Date 6-7-88

2. Passed a written examination and oral review on basic radiation safety at the conclusion of the four (4) hours of instructions (Basic Radiation Quiz).

No. of Hrs. 4 Date 6-7-88

**IV.** The above named individual has satisfactorily completed training and examination to begin their one (1) week on-the-job as a Radiographer Training.

Date (Beginning on-the-job training) 6-7-88

**V.** I hereby certify the above information is correct to the best of my knowledge.

William C. Helt  
Signature of Radiographer Trainee

Date JUNE 7, 1988


[Signature]  
Individual Administering Training/Exam

Date 6-7-88

Approved by the RSO Robert L. Boothe Date 6-7-88

## BASIC RADIATION QUIZ

DATE: 6-7-88

GRADED BY: 

SCORE 100%

NAME: WILLIAM C. HELT

DATE: JUNE 7, 1988

SOCIAL SECURITY NO.: 552-49-4196

LOCATION: VENTURA OFFICE

Select the correct answers to the following questions.  
Circle the letter that indicates your answer.

- Which of the following people will receive Ionizing Radiation during their lifetime?
  - General Population
  - Medical Workers
  - Radiation Workers
  - All of the listed
- Which of the following can be used to reduce your exposure to Radiation?
  - Time
  - Distance
  - Shielding
  - All of the listed
- Controlled Radiation areas are indicated and designated by which of the following:
  - The shop foreman
  - The back of the building
  - The telephone line
  - The magenta and yellow signs and rope
- Working with Radiation is safe when you:
  - Use your common sense and intelligence
  - Have a Ph.D in Radiation Physics
  - Follow the simple rules devised for your protection
  - Have been previously exposed
- When working with or when you are near a Radiation Source, you should always:
  - Wear a film badge and dosimeter
  - Perform your work only at night
  - Wear lead-lined clothing
  - Wear a Respirator



**CERTIFICATION OF RADIATION SAFETY TRAINING  
RADIOGRAPHERS' ASSISTANT**

I Radiographers' Assistant Ron Wagner Date of Hire 11-15-88

Date of Birth 12-1-65 Social Security No. 566-43-1644 Jobsite \_\_\_\_\_

II The above named individual has satisfactorily complete Boothe-Twining's informative instructions and testing for Radiographer Trainee as specified below.

1. Attended informative instruction of the topics outlined as follows:

- a) Basic Radiation Safety
- b) Needs and requirements for personnel monitoring  
(Min. Four (4) Hrs) No. of Hrs. 4 Date 10-28-88

2. Past a written examination and oral review on basic radiation safety at the conclusion of the four (4) hours of instruction (Basic Radiation Quiz).

Exam Score 80% Date 10-28-88

III. Completed a minimum of one (1) week on-the-job training as a Radiographer Trainee.

Date From 11-15-88 To 2-2-89

IV. The above named individual has satisfactorily completed the Company's Radiographers' Assistant Training and Testing as specified below.

1. Attended instruction on the topics outlined as follows:

- a) Operating and Emergency Procedures Date 2-2-89
- b) Radiography Equipment Date 2-2-89

2. Successfully completed the written examination and oral review associated with the position of Radiographers' Assistant.

Date 2-2-89 84%

V. I hereby certify the above information is correct to the best of my knowledge.

Ron Wagner  
Signature of Radiographers' Assistant

Date 2-2-89

[Signature]  
Individual Administering Training/Exam

Date 2-2-89

Approved by the RSO [Signature] Date 2-2-89

RADIATION SAFETY TRAINING CERTIFICATION  
 PRACTICAL EXAMINATION -- ASSISTANT RADIOGRAPHER

Individual's Name Ron Wagner Date 2-2-89  
 Date of Birth 12-1-65 Social Security No. 566-43-1644  
 Jobsite Ventura Examiner TWC Score 88%

| <u>Points</u> |   | <u>Points Received</u> |
|---------------|---|------------------------|
| 20            | 1. Basic knowledge of Radiation Safety.   | <u>18</u>              |
| 20            | 2. Familiarization and understanding of the Operating and Emergency Procedures. | <u>18</u>              |
| 5             | 3. Follows instructions.  | <u>5</u>               |
| 5             | 4. Shows care and concern in handling equipment.                                | <u>5</u>               |
| 20            | 5. Understands the procedure for the safe handling of exposure devices.         | <u>18</u>              |
| 10            | 6. Takes the proper steps in sequence before making an exposure.                | <u>8</u>               |
| 10            | 7. Uses the survey meter properly.  | <u>8</u>               |
| 10            | 8. Understands requirements in Federal and/or Agreement State Regulations.      | <u>8</u>               |

Note: A minimum of 80 points is required for passing this examination.

REMARKS OF THE EXAMINER \_\_\_\_\_

EXAMINER  DATE 2-2-89

**CERTIFICATION OF RADIATION SAFETY TRAINING  
RADIOGRAPHER TRAINEE**

I Radiographer Trainee Ron Wagoner Date of Hire 11-15-88

Date of Birth 12-1-65 Social Security No. 566-43-1644 Jobsite Ventura

II The above named individual has received the following items:

1. Film Badge 10-20-88 Date Received 11-15-88

2. Dosimeter SN 2032471 Date Received 11-15-88

Note: If items were issued at time of hire, use the date.

III. The above named individual has satisfactorily completed Boothe-Twining's informative instructions and testing for Radiographer Trainee as specified below:

1. Attended informative instruction on the topics outlined as follows:

a) Basic Radiation Safety

b) Needs and requirements for personnel monitoring. (Min. four (4) Hours)

1. Dosimeter

2. Film Badge

3. Dose Rate

4. Radiation Survey Meters

5. Controlling Radiation Dose

No. of Hrs. 4 Date 10-28-88

2. Passed a written examination and oral review on basic radiation safety at the conclusion of the four (4) hours of instructions (Basic Radiation Quiz).

No. of Hrs. 4 Date 10-28-88

IV. The above named individual has satisfactorily completed training and examination to begin their one (1) week on-the-job as a Radiographer Training.

Date (Beginning on-the-job training) 11-15-88

V. I hereby certify the above information is correct to the best of my knowledge.

Ron Wagoner

Signature of Radiographer Trainee

Date 10/28/88

[Signature]

Individual Administering Training/Exam

Date 10-28-88

Approved by the RSO

[Signature]

Date 11-15-88



## BASIC RADIATION QUIZ

DATE: 10-28-88

GRADED BY: (7)

SCORE 80%

NAME: Ron Wagoner

DATE: 10/28/88

SOCIAL SECURITY NO.: 566-43-1644

LOCATION:

Select the correct answers to the following questions.  
Circle the letter that indicates your answer.

- Which of the following people will receive Ionizing Radiation during their lifetime?
  - General Population
  - Medical Workers
  - Radiation Workers
  - All of the listed
- Which of the following can be used to reduce your exposure to Radiation?
  - Time
  - Distance
  - Shielding
  - All of the listed
- Controlled Radiation areas are indicated and designated by which of the following:
  - The shop foreman
  - The back of the building
  - The telephone line
  - The magenta and yellow signs and rope
- Working with Radiation is safe when you:
  - Use your common sense and intelligence
  - Have a Ph.D in Radiation Physics
  - Follow the simple rules devised for your protection
  - Have been previously exposed
- When working with or when you are near a Radiation Source, you should always:
  - Wear a film badge and dosimeter
  - Perform your work only at night
  - Wear lead-lined clothing
  - Wear a Respirator

**CERTIFICATION OF RADIATION SAFETY TRAINING  
FOR PREVIOUSLY TRAINED RADIOGRAPHERS**

I. Radiographer Robert M. Jensen Date of Hire 9/28/88

Date of Birth 1/22/60 Social Security No. 529-11-5137 Jobsite \_\_\_\_\_

II The above named Radiographer has been licensed previously to use radioactive sources as a fully qualified radiographer prior to employment with Boothe-Twining, Inc.. However, to insure that the individual has received adequate safety training prior to being designated as a qualified Radiographer, the following training and examination were given:

1. Informative instruction on Company's Operating and Emergency Procedures, instruments, sources, devices and equipment used in the course of their duties in Radiography.

Instruction shall include NRC case Histories No. of Hrs. 6 Date 10-3-88

2. Passed a written examination to determine their knowledge of topics outlined the Company's Training Procedure and O&E P.

Date 10-3-88 Exam Score 72%

3. Demonstrated satisfactorily their competence to perform Industrial Radiography and use the necessary related tools and equipment associated with such operations.

Date 10-3-88 Exam Score 91%

3. Received instructions in the Company's Material License, O&E P, and State and/or Federal Regulations for Control of Radiation.

Date 10-3-88

III. Previous training and experience as a Radiographer using Radioactive Sources as follows:

1. Employed as a Radiographer's Assistant from 1/20/80 To 2/29/81  
For (Company) Ort-Clam Testing

2. Received formal instruction on topics outlined in the Company's Training Procedure, and State of California Title 17 (30335).

Company \_\_\_\_\_ Date \_\_\_\_\_

3. Was first qualified as a Radiographer at (Company) Ort-Clam Date 1981

4. Have worked as a Radiographer for the following Company on the dates shown:

High Precision From 12/28/86 To 2/25/88

Eagle Inspections From 1/15/85 To 1/18/86

Ort-Clam Testing From 1981 To 1/2/85

IV. I hereby certify the above information is correct to the best of my knowledge.

Robert M. Jensen  
Signature of Radiographer

Date 10/5/88

[Signature]  
Individual Administering Training/Exam

Date 10-3-88

Approved by the RSO

[Signature]  
Robert O. Boothe

Date 10-3-88



**RADIATION SAFETY TRAINING CERTIFICATION**  
**PRACTICAL EXAMINATION -- RADIOGRAPHER**  
**PREVIOUS EXPERIENCE**

Individual's Name Robert M. Jensen Date 10/3/88  
 Date of Birth 1/22/60 Social Security No. 529-11-5137  
 Jobsite \_\_\_\_\_ Examiner [Signature] Score 91

| <u>Points</u> |   | <u>Points Received</u> |
|---------------|---|------------------------|
| 10            | 1. Understands the Operating and Emergency Procedures.  | <u>8</u>               |
| 15            | 2. Understands and is familiar with exposure devices and their operation.                             | <u>15</u>              |
| 10            | 3. Understands Basic Radiation Safety.  | <u>10</u>              |
| 10            | 4. Uses the proper technique in handling and moving an exposure device on the jobsite.                | <u>10</u>              |
| 5             | 5. Understands personnel monitoring.  | <u>4</u>               |
| 15            | 6. Understands the proper sequence of steps taken to avoid radiation exposure to personnel.           | <u>13</u>              |
| 5             | 7. Understands and follows instructions.  | <u>5</u>               |
| 5             | 8. Understands the necessary paperwork involved and properly completes the correct forms as required. | <u>4</u>               |
| 5             | 9. Understands the requirements of Federal and/or Agreement States Regulations.                       | <u>4</u>               |
| 20            | 10. Understands the necessary steps to be taken in case of an emergency.                              | <u>18</u>              |

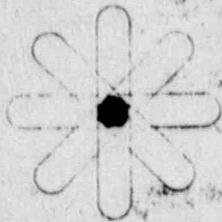
Note: A minimum of 80 points is required for passing this examination.

REMARKS OF THE EXAMINER \_\_\_\_\_

EXAMINER [Signature] DATE 10-3-88



# CERTIFICATE OF TRAINING



HIGH MOUNTAIN  
INSPECTION SERVICE, INC.

ROBERT M. JENSEN

THIS CERTIFIES THAT

RADIOGRAPHER TRAINING PROGRAM

HAS SATISFACTORILY COMPLETED

CONDUCTED ON FEBRUARY 12-15, 1988 IN BAKERSFIELD, CALIFORNIA

ROY A. PARKER Ph.D.  
RADIATION PHYSICIST

**STATEMENT OF TRAINING AND EXPERIENCE**  
**Application For Use of Sealed Sources In Radiography**

This form should be used only by persons who wish to perform radiography under a "Limited Radiography License" as described in Section 3 of Applicant's Guide - Industrial Radiography, Form RH 2051-R.

**INSTRUCTIONS:** 1. Use separate form for each individual. 2. Additional pages may be attached. 3. Submit all material in duplicate to the Radiologic Health Section at the address given above. 4. See Applicant's Guide - Industrial Radiography, Appendix A, Section 3 for additional information.

1. a. Name of proposed radiographer Robert Jensen

b. To be included on Lic. No. \_\_\_\_\_ in name of Booth - Twining, Inc.

2. Experience:

List experience as a (1) Radiographer or (2) Radiographer's Assistant

a. Dates: From 12/28/86 to 9/20/88

Position Held: (1) Level II RT (2) \_\_\_\_\_

Type of Equipment Used: GNE-20V  
(Make & Model No.) Gamma

Type and Amount of Activity: IR-192 100 Curies  
(Isotope and Curies)

Employer: High Mountain Inspection Address: 3222 Citrus Lakefield Cir.

License No. (Agreement State or U.S. NRC) \_\_\_\_\_

b. Dates: From 1/20/86 to 12/25/86

Position Held: (1) Level I RT (2) \_\_\_\_\_

Type of Equipment Used: GNE-20V  
(Make & Model No.) Camera Century

Type and Amount of Activity: IR-192 100 Curies  
(Isotope and Curies)

Employer: Universal Testing Address: Salt Lake City Utah

License No. (Agreement State or U.S. NRC) \_\_\_\_\_

c. Dates: From 1/15/85 to 1/18/86

Position Held: (1) Level II RT (2) \_\_\_\_\_

Type of Equipment Used: Comma Century  
(Make & Model No.)

Type and Amount of Activity: Zr-90 100 Curies  
(Isotope and Curies)

Employer: Eagle Inspection Address: La.

License No. (Agreement State or U.S. NRC) \_\_\_\_\_

d. Dates: From 1/20/80 to 1/12/85

Position Held: (1) Level II RT (2) Level I RT & Trans

Type of Equipment Used: Comma Century  
(Make & Model No.) Feel apps

Type and Amount of Activity: Zr-90 100 Curies  
(Isotope and Curies) Cobalt 60 75 Curies

Employer: M&L Chem Testing Address: Salt Lake City Utah

License No. (Agreement State or U.S. NRC) \_\_\_\_\_

3. Training:

a. High School Graduate:  Yes  No

b. College or University: Name and location Trade Tech @ Salt Lake City

Years completed 1 Degree \_\_\_\_\_ Course of study Electricity

c. Training specific to use of sealed sources in industrial radiography (Name instructor and/or school and specify dates):

Harold Piroch 40 hours Radiation Safety @ Salt Lake City 1980

Ed Parker 40 hours Radiation Safety @ Bakersfield Ca. 1988

d. Robert Jensen NAME determined compliance with 17 CAC 30333(a) [10CFR 34.31]

for the person named above by Boothe - Training, Inc.

(Briefly describe test, on the job evaluation, etc. Written test copy may be attached)

Tested as Level II RT for each Company  
H2S Tested

4. CERTIFICATE

The proposed radiographer and any official executing this certificate on behalf of the licensee named in Item 1.b., certify that all information contained herein, including any supplements attached hereto, is true and correct.

Robert M. Jensen  
Proposed Radiographer named in Item 1.a.

10/3/88  
Date

Robert L. Boothe  
Radiation Safety Officer

10-3-88  
Date



**RADIOACTIVE MATERIAL LICENSE**

## Supplementary Sheet

12. The individuals listed below are the only persons authorized to act as radiographers under this license:

|                      |  |
|----------------------|--|
| (a) Ralph Boothe     | (q) Diana Maddox                                 |
| (b) Robert L. Boothe | (r) Robert Mallory                               |
| (c) Rodney Boothe    | (s) Mark Martinez                                |
| (d) Eric Champman    | (t) Gary Lee McChain<br>(alias Steve Passanante) |
| (e) Robert Clancy    | (u) Kurt Miller                                  |
| (f) Tom Cuthbertson  | (v) Dave Neufeld                                 |
| (g) Fred Edmondson   | (w) John Ober                                    |
| (h) Steve Gann       | (x) Warren Owens                                 |
| (i) Renn Gibson      | (y) Bill Perensky                                |
| (j) Mark Gutierrez   | (z) Doug Pickering                               |
| (k) John Hoffman     | (aa) Bob Powell                                  |
| (l) Bob Jensen       | (ab) Fred Reeder                                 |
| (m) Terry Koch       | (ac) Sam Reeder                                  |
| (n) Pat Lewis        | (ad) Fred Stough                                 |
| (o) Mike Lieb        | (ae) James Stough                                |
| (p) Keith Madden     |  |

13. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in the documents listed below. The Department's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

- (a) The Stipulation for Settlement and Settlement Order effective September 4, 1987, modified by the Amendment to Settlement Order effective August 17, 1988, both signed by Timothy R. Patterson, Deputy Attorney General; Robert L. Boothe, President of Boothe-Twining, Inc.; and Stanley Cubanski, Chief Deputy Director of the California Department of Health Services.
- (b) the renewal application (with Application Attachments and Radiation Safety Program - BTI RSP 987) dated September 28, 1987, signed by Robert L. Boothe, modified by the letters (with attachments) dated November 20, 1987, and June 15, 1988, signed by Fred Stough and Robert L. Boothe, respectively.
- (c) The letter (excluding Item 3) dated December 5, 1988, signed by Tom W. Cuthbertson, with attachments.

For the State Department of Health Services

Date December 21, 1988

by \_\_\_\_\_ 1

Radiologic Health Branch

**CERTIFICATION OF RADIATION SAFETY TRAINING  
FOR PREVIOUSLY TRAINED RADIOGRAPHERS**

I. Radiographer Alan Barnes Date of Hire 1-23-89

Date of Birth 7-31-65 Social Security No 45-3-49-8602 Jobsite \_\_\_\_\_

II The above named Radiographer has been licensed previously to use radioactive sources as a fully qualified radiographer prior to employment with Boothe-Twining, Inc.. However, to insure that the individual has received adequate safety training prior to being designated as a qualified Radiographer, the following training and examination were given:

1. Informative instruction on Company's Operating and Emergency Procedures, instruments, sources, devices and equipment used in the course of their duties in Radiography.

Instruction shall include NRC case Histories No. of Hrs 6 Date 1-23-89

2. Passed a written examination to determine their knowledge of topics outlined the Company's Training Procedure and O&E P.

Date 1-23-89 Exam Score 78%

3. Demonstrated satisfactorily their competence to perform Industrial Radiography and use the necessary related tools and equipment associated with such operations.

Date 1-23-89 Exam Score 84%

3. Received instructions in the Company's Material License, O&E P, and State and/or Federal Regulations for Control of Radiation.

Date 1-23-89

III. Previous training and experience as a Radiographer using Radioactive Sources as follows:

1. Employed as a Radiographer's Assistant from 88 To 89  
For (Company) C.T.I. Continential Testing & Inspection

2. Received formal instruction on topics outlined in the Company's Training Procedure, and State of California Title 17 (30335).

Company C.T.I. Date 1-23-85

3. Was first qualified as a Radiographer at (Company) C.T.I. Date 1-19-89

4. Have worked as a Radiographer for the following Company on the dates shown:

C.T.I. From 1-19-88 To 1-19-89

From \_\_\_\_\_ To \_\_\_\_\_

From \_\_\_\_\_ To \_\_\_\_\_

IV. I hereby certify the above information is correct to the best of my knowledge.

Alan Barnes  
Signature of Radiographer

Date 1-23-89

[Signature]  
Individual Administering Training/Exam

Date 1-23-89

Approved by the RSO [Signature]

Date 1-25-89



**RADIATION SAFETY TRAINING CERTIFICATION**  
**PRACTICAL EXAMINATION -- RADIOGRAPHER**  
**PREVIOUS EXPERIENCE**

Individual's Name Alan Barnes Date 1-23-89  
 Date of Birth 7-31-65 Social Security No. 457-49-8602  
 Jobsite \_\_\_\_\_ Examiner [Signature] Score 84/100

| <u>Points</u> |   | <u>Points Received</u> |
|---------------|---|------------------------|
| 10            | 1. Understands the Operating and Emergency Procedures.  | <u>8</u>               |
| 15            | 2. Understands and is familiar with exposure devices and their operation.                             | <u>12</u>              |
| 10            | 3. Understands Basic Radiation Safety.  | <u>8</u>               |
| 10            | 4. Uses the proper technique in handling and moving an exposure device on the jobsite.                | <u>8</u>               |
| 5             | 5. Understands personnel monitoring.  | <u>4</u>               |
| 15            | 6. Understands the proper sequence of steps taken to avoid radiation exposure to personnel.           | <u>13</u>              |
| 5             | 7. Understands and follows instructions.  | <u>5</u>               |
| 5             | 8. Understands the necessary paperwork involved and properly completes the correct forms as required. | <u>4</u>               |
| 5             | 9. Understands the requirements of Federal and/or Agreement States Regulations.                       | <u>4</u>               |
| 20            | 10. Understands the necessary steps to be taken in case of an emergency.                              | <u>18</u>              |

Note: A minimum of 80 points is required for passing this examination.

REMARKS OF THE EXAMINER \_\_\_\_\_

EXAMINER [Signature] DATE 1-25-89



**STATEMENT OF TRAINING AND EXPERIENCE**  
**Application For Use of Sealed Sources in Radiography**

This form should be used only by persons who wish to perform radiography under a "Limited Radiography License" as described in Section 3 of Applicant's Guide — Industrial Radiography, Form RH 2051-R.

*INSTRUCTIONS: 1. Use separate form for each individual. 2. Additional pages may be attached. 3. Submit all material in duplicate to the Radiologic Health Branch at the address given above. 4. See Applicant's Guide — Industrial Radiography, Appendix A, Section 3 for additional information.*

1. a. Name of proposed radiographer Alan Lee Barnes

b. To be included on Lic. No. 2181-56 in name of Booth-Turning Inc

2. Experience:

List experience as a (1) Radiographer or (2) Radiographer's Assistant

a. Dates: From 1-19-85 to 1-19-89

Position Held: (1) Radiographers (2) Assistant

Type of Equipment Used:  
(Make & Model No.) IR192 ~~20V~~ Amerghan 20V + Co. 60

Type and Amount of Activity:  
(Isotope and Curies) IR192 = 100 Ci. Co 60 35 Ci.

Employer: Continental Testing + Ins. Address: 2424 Gaudrey Ave Signal Hill Ca. 90806

License No. (Agreement State or U.S. NRC) \_\_\_\_\_

b. Dates: From 1-19-88 to 1-

Position Held: (1) Assistant (2) \_\_\_\_\_

Type of Equipment Used:  
(Make & Model No.)

Type and Amount of Activity:  
(Isotope and Curies)

Employer: \_\_\_\_\_ Address: \_\_\_\_\_

License No. (Agreement State or U.S. NRC) \_\_\_\_\_

c. Dates: From \_\_\_\_\_ to \_\_\_\_\_

Position Held: (1) \_\_\_\_\_ (2) \_\_\_\_\_

Type of Equipment Used:  
(Make & Model No.)

Type and Amount of Activity:  
(Isotope and Curies)

Employer: \_\_\_\_\_ Address: \_\_\_\_\_

License No. (Agreement State or U.S. NRC) \_\_\_\_\_

d. Dates: From \_\_\_\_\_ to \_\_\_\_\_

Position Held: (1) \_\_\_\_\_ (2) \_\_\_\_\_

Type of Equipment Used:  
(Make & Model No.)

Type and Amount of Activity:  
(Isotope and Curies)

Employer: \_\_\_\_\_ Address: \_\_\_\_\_

License No. (Agreement State or U.S. NRC) \_\_\_\_\_

3. Training:

a. High School Graduate:  Yes  No 1151 San Gabriel Blvd Rosemead Ca, 91770

b. College or University: Name and location ASNT Education Center, Don Bosco Tech INST.

Years completed 13 weeks Degree ASNT Course of study 301 B Nuclear Radiological Health Safety

c. Training specific to use of sealed sources in industrial radiography (Name instructor and/or school and specify dates):

Tom W. Cuthbert

d. Alan Barnes determined compliance with 17 CAC 30333(a) [10CFR 34.31]

for the person named above by on the job training Don Bosco Health & Safety  
(Briefly describe test, on the job evaluation, etc. Written test copy may be attached)

ASNT Course 301 B  
Past Experience - Safety Training  
and Testing

4. CERTIFICATE

The proposed radiographer and any official executing this certificate on behalf of the licensee named in Item 1.b. certify that all information contained herein, including any supplements attached hereto, is true and correct.

Alan Barnes  
Proposed Radiographer named in Item 1.a.

[Signature]  
Radiation Safety Officer

1-23-89  
Date  
1-25-89  
Date



American Society for



Nondestructive Testing

*This is to certify that*

**ALAN L. BARNES**

*has successfully completed the Educational Curriculum,  
has maintained the required attendance and has  
demonstrated proficiency by satisfactory completion  
of an examination on the subject of*

**Course No. 301B, Nuclear Radiological Health and Safety**

**Presented by: THE LOS ANGELES SECTION**

**Given this 15th day of December 1988**

*Robert Clifton*

INSTRUCTOR

*Ted Roman*

SECTION CHAIRMAN

*Fred J. Padilla*

EDUCATIONAL CHAIRMAN



**CERTIFICATION OF RADIATION SAFETY TRAINING  
RADIOGRAPHERS' ASSISTANT**

I Radiographers' Assistant Rudy Martinez Date of Hire 5-26-88

Date of Birth 9/14/64 Social Security No. 555-514298 Jobsite \_\_\_\_\_

II The above named individual has satisfactorily complete Boothe-Twining's informative instructions and testing for Radiographer Trainee as specified below.

1. Attended informative instruction of the topics outlined as follows:

a) Basic Radiation Safety

b) Needs and requirements for personnel monitoring

(Min. Four (4) Hrs)

No. of Hrs. 4 Date 5-26-88

2. Past a written examination and oral review on basic radiation safety at the conclusion of the four (4) hours of instruction (Basic Radiation Quiz)

Exam Score 80% Date 5-24-88

III. Completed a minimum of one (1) week on-the-job training as a Radiographer Trainee.

Date From 5-26-88 To \_\_\_\_\_

IV. The above named individual has satisfactorily completed the Company's Radiographers' Assistant Training and Testing as specified below.

1. Attended instruction on the topics outlined as follows:

a) Operating and Emergency Procedures

Date 5-26-88

b) Radiography Equipment

Date 5-26-88

2. Successfully completed the written examination and oral review associated with the position of Radiographers' Assistant.

Date 5-26-88

V. I hereby certify the above information is correct to the best of my knowledge.

Rudy Martinez  
Signature of Radiographers' Assistant

Date 5/26/88

[Signature]  
Individual Administering Training/Exam

Date 5-26-88

Approved by the RSO

Robert L. Boothe Date 5-26-88

RADIATION SAFETY TRAINING CERTIFICATION

PRACTICAL EXAMINATION -- ASSISTANT RADIOGRAPHER

Individual's Name Rudy Martinez Date 5-26-88  
Date of Birth 4-14-64 Social Security No. 533-57-4298  
Jobsite Ventura Examiner TWC Score 79%

| <u>Points</u> |   | <u>Points Received</u> |
|---------------|---|------------------------|
| 20            | 1. Basic knowledge of Radiation Safety.   | <u>14</u>              |
| 20            | 2. Familiarization and understanding of the Operating and Emergency Procedures. | <u>15</u>              |
| 5             | 3. Follows instructions.  | <u>4</u>               |
| 5             | 4. Shows care and concern in handling equipment.                                | <u>5</u>               |
| 20            | 5. Understands the procedure for the safe handling of exposure devices.         | <u>18</u>              |
| 10            | 6. Takes the proper steps in sequence before making an exposure.                | <u>8</u>               |
| 10            | 7. Uses the survey meter properly.  | <u>8</u>               |
| 10            | 8. Understands requirements in Federal and/or Agreement State Regulations.      | <u>7</u>               |

Note: A minimum of 80 points is required for passing this examination.

REMARKS OF THE EXAMINER \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

EXAMINER

TWC

DATE

5-26-88



**CERTIFICATION OF RADIATION SAFETY TRAINING  
FOR PREVIOUSLY TRAINED RADIOGRAPHERS**

I. Radiographer LESLIE D. SMITH Date of Hire 1-23-89

Date of Birth 1-29-42 Social Security No. 516-48-7608 Jobsite L.B.

II The above named Radiographer has been licensed previously to use radioactive sources as a fully qualified radiographer prior to employment with Boothe-Twining, Inc.. However, to insure that the individual has received adequate safety training prior to being designated as a qualified Radiographer, the following training and examination were given:

1. Informative instruction on Company's Operating and Emergency Procedures, instruments, sources, devices and equipment used in the course of their duties in Radiography.  
Instruction shall include NRC case Histories No. of Hrs. 6 Date 1-23-89

2. Passed a written examination to determine their knowledge of topics outlined the Company's Training Procedure and O&E P.  
Date 1-23-89 Exam Score 88%

3. Demonstrated satisfactorily their competence to perform Industrial Radiography and use the necessary related tools and equipment associated with such operations.  
Date 1-23-89 Exam Score 92%

3. Received instructions in the Company's Material License, O&E P, and State and/or Federal Regulations for Control of Radiation.  
Date 1-23-89

III. Previous training and experience as a Radiographer using Radioactive Sources as follows:

1. Employed as a Radiographer's Assistant from 1984-85 To \_\_\_\_\_  
For (Company) Boothe Twining

2. Received formal instruction on topics outlined in the Company's Training Procedure, and State of California Title 17 (30335).  
Company R.L. Donaldson / Boothe Twining Date 1984-86

3. Was first qualified as a Radiographer at (Company) B.T. Date 1985

4. Have worked as a Radiographer for the following Company on the dates shown:  
Boothe Twining From 1984 To 1986  
CTI From 1986 To 1988  
From \_\_\_\_\_ To \_\_\_\_\_

IV. I hereby certify the above information is correct to the best of my knowledge.

Leslie D. Smith  
Signature of Radiographer

Date 1-23-89

[Signature]  
Individual Administering Training/Exam

Date 1-23-89

Approved by the RSO [Signature] Date 1-25-89



**RADIATION SAFETY TRAINING CERTIFICATION**  
**PRACTICAL EXAMINATION -- RADIOGRAPHER**  
**PREVIOUS EXPERIENCE**

Individual's Name LESLIE D. SMITH Date 1-23-89  
 Date of Birth 1-29-42 Social Security No. 516-48-7608  
 Jobsite Long Beach Examiner [Signature] Score 92%

| <u>Points</u> |   | <u>Points Received</u> |
|---------------|---|------------------------|
| 10            | 1. Understands the Operating and Emergency Procedures.  | <u>8</u>               |
| 15            | 2. Understands and is familiar with exposure devices and their operation.                             | <u>14</u>              |
| 10            | 3. Understands Basic Radiation Safety.  | <u>10</u>              |
| 10            | 4. Uses the proper technique in handling and moving an exposure device on the jobsite.                | <u>9</u>               |
| 5             | 5. Understands personnel monitoring.  | <u>5</u>               |
| 15            | 6. Understands the proper sequence of steps taken to avoid radiation exposure to personnel.           | <u>14</u>              |
| 5             | 7. Understands and follows instructions.  | <u>5</u>               |
| 5             | 8. Understands the necessary paperwork involved and properly completes the correct forms as required. | <u>4</u>               |
| 5             | 9. Understands the requirements of Federal and/or Agreement States Regulations.                       | <u>5</u>               |
| 20            | 10. Understands the necessary steps to be taken in case of an emergency.                              | <u>18</u>              |

Note: A minimum of 80 points is required for passing this examination.

REMARKS OF THE EXAMINER \_\_\_\_\_

\_\_\_\_\_

EXAMINER [Signature] DATE 1-25-89

**STATEMENT OF TRAINING AND EXPERIENCE**  
**Application For Use of Sealed Sources in Radiography**

This form should be used only by persons who wish to perform radiography under a "Limited Radiography License" as described in Section 3 of Applicant's Guide - Industrial Radiography, Form RH 2051-R.

*INSTRUCTIONS: 1. Use separate form for each individual. 2. Additional pages may be attached. 3. Submit all material in duplicate to the Radiologic Health Branch at the address given above. 4. See Applicant's Guide - Industrial Radiography, Appendix A, Section 3 for additional information.*

1. a. Name of proposed radiographer LESLIE D. SMITH  
 b. To be included on Lic. No. 2181-56 in name of Boothe-Twinning, Inc

2. Experience:

List experience as a (1) Radiographer or (2) Radiographer's Assistant

a. Dates: From DEC 1983 to 1985

Position Held: (1) LEVEL I - II (2) LEVEL II

Type of Equipment Used: X-RAY MACHINE  
 (Make & Model No.) GAMMA CENTURY

Type and Amount of Activity: GNI 40V - 20V  
 (Isotope and Curies) GAMMA TWIN MDL # 50  
IR192 - 100 CURIES  
CO 60 - 60 CURIES

Employer: BOOTHE TWINNING Address: 2400 AIRPORT WAY L.B. CAL

License No. (Agreement State or U.S. NRC) \_\_\_\_\_

b. Dates: From 1985 to 1987

Position Held: (1) LEVEL II (2) LEVEL II

Type of Equipment Used: GAMMA CENTURY  
 (Make & Model No.) GNI - 40V - 20V  
GAMMA TWIN - #50

Type and Amount of Activity: IR192 - 100 C  
 (Isotope and Curies) CO 60 - 60 C

Employer: CTI Address: 2424 Gundry Long Beach CA

License No. (Agreement State or U.S. NRC) 2535-70



c. Dates: From 1-23-89 to \_\_\_\_\_

Position Held: (1) LEVEL II (2) \_\_\_\_\_

Type of Equipment Used: GAMMA CENTURY  
(Make & Model No.) GMI 40V-20V  
G.

Type and Amount of Activity: Co 60  
(Isotope and Curies) 12192-100 C

Employer: Boothe Twinning Address: \_\_\_\_\_

License No. (Agreement State or U.S. NRC) \_\_\_\_\_

d. Dates: From \_\_\_\_\_ to \_\_\_\_\_

Position Held: (1) \_\_\_\_\_ (2) \_\_\_\_\_

Type of Equipment Used:  
(Make & Model No.)

Type and Amount of Activity:  
(Isotope and Curies)

Employer: \_\_\_\_\_ Address: \_\_\_\_\_

License No. (Agreement State or U.S. NRC) \_\_\_\_\_

3. Training:

a. High School Graduate:  Yes  No

b. College or University: Name and location \_\_\_\_\_

Years completed \_\_\_\_\_ Degree \_\_\_\_\_ Course of study \_\_\_\_\_

c. Training specific to use of sealed sources in industrial radiography (Name instructor and/or school and specify dates):

HEALTH & SAFETY - RL. DONELSON  
LEVEL I AND II by Boothe Twinning } CAMARILLO

d. Tom W. Cutlibertson determined compliance with 17 CAC 30333(a) [10CFR 34.31]

for the person named above by Post experience & Testing  
(Briefly describe test, on the job evaluation, etc. Written test copy may be attached)

Safety Training

4. CERTIFICATE

The proposed radiographer and any official executing this certificate on behalf of the licensee named in Item 1.b. certify that all information contained herein, including any supplements attached hereto, is true and correct.

Leslie Ann Smith  
Proposed Radiographer named in Item 1.b.

[Signature]  
Radiation Safety Officer

1-23-89  
Date

1-25-89  
Date



# Certificate

LES SMITH

---

has successfully completed the  
**RADIATION SAFETY COURSE**  
for  
**RADIOGRAPHERS**

PRESENTED BY  
**RICHARD DONELSON & ASSOCIATES**

*J. Davis*

---

*R. N. Donelson 6/20/85*

---

**CERTIFICATION OF RADIATION SAFETY TRAINING  
FOR PREVIOUSLY TRAINED RADIOGRAPHERS**

I. Radiographer TERRY L. KOCH Date of Hire 10-24-88

Date of Birth 4-12-44 Social Security No. 521-60-5264 Jobsite VENTURA

II The above named Radiographer has been licensed previously to use radioactive sources as a fully qualified radiographer prior to employment with Boothe-Twining, Inc.. However, to insure that the individual has received adequate safety training prior to being designated as a qualified Radiographer, the following training and examination were given:

1. Informative instruction on Company's Operating and Emergency Procedures, instruments, sources, devices and equipment used in the course of their duties in Radiography.

Instruction shall include NRC case Histories No. of Hrs. 6 Date 10-24-88

2. Passed a written examination to determine their knowledge of topics outlined the Company's Training Procedure and O&E P.

Date 10-24-88 Exam Score 92%

3. Demonstrated satisfactorily their competence to perform Industrial Radiography and use the necessary related tools and equipment associated with such operations.

Date 10-24-88 Exam Score 92%

3. Received instructions in the Company's Material License, O&E P, and State and/or Federal Regulations for Control of Radiation.

Date 10-24-88

III. Previous training and experience as a Radiographer using Radioactive Sources as follows:

1. Employed as a Radiographer's Assistant from 1971 To 1972  
For (Company) Boothe Mobile Inspection

2. Received formal instruction on topics outlined in the Company's Training Procedure, and State of California Title 17 (30335).

Company SNT Date June 1967

3. Was first qualified as a Radiographer at (Company) Boothe Mobile Insp. Date 1971

4. Have worked as a Radiographer for the following Company on the dates shown:

|                            |                  |                 |
|----------------------------|------------------|-----------------|
| <u>Boothe Mobile Insp.</u> | From <u>4-71</u> | To <u>12-72</u> |
| <u>MW Kucuras</u>          | From <u>1-73</u> | To <u>2-74</u>  |
| <u>G.E.</u>                | From <u>2-74</u> | To <u>9-75</u>  |

IV. I hereby certify the above information is correct to the best of my knowledge.

Terry L. Koch  
Signature of Radiographer

Date 10-24-88

Robert L. Boothe  
Individual Administering Training/Exam

Date 10-24-88

Approved by the RSD Robert L. Boothe Date 10-24-88

**RADIATION SAFETY TRAINING CERTIFICATION**  
**PRACTICAL EXAMINATION -- RADIOGRAPHER**  
**PREVIOUS EXPERIENCE**

Individual's Name Terry L. Koch Date 10-24-88  
 Date of Birth 4-12-44 Social Security No. 571-60-5262  
 Jobsite Kentura Examiner IWC Score 92%

| <u>Points</u> |   | <u>Points Received</u> |
|---------------|---|------------------------|
| 10            | 1. Understands the Operating and Emergency Procedures.  | <u>8</u>               |
| 15            | 2. Understands and is familiar with exposure devices and their operation.                             | <u>14</u>              |
| 10            | 3. Understands Basic Radiation Safety.  | <u>10</u>              |
| 10            | 4. Uses the proper technique in handling and moving an exposure device on the jobsite.                | <u>10</u>              |
| 5             | 5. Understands personnel monitoring.  | <u>5</u>               |
| 15            | 6. Understands the proper sequence of steps taken to avoid radiation exposure to personnel.           | <u>14</u>              |
| 5             | 7. Understands and follows instructions.  | <u>5</u>               |
| 5             | 8. Understands the necessary paperwork involved and properly completes the correct forms as required. | <u>4</u>               |
| 5             | 9. Understands the requirements of Federal and/or Agreement States Regulations.                       | <u>4</u>               |
| 20            | 10. Understands the necessary steps to be taken in case of an emergency.                              | <u>18</u>              |

Note: A minimum of 80 points is required for passing this examination.

REMARKS OF THE EXAMINER \_\_\_\_\_

EXAMINER  DATE 10-24-88



**Nondestructive Testing**  
SOCIETY FOR NONDESTRUCTIVE TESTING



**Specialty For**

Hereby attests to the fact that  
**TERRY L. KOCH**

Has successfully completed course #301 in Radiological Health Safety including Basic Radiation Physics, Interaction of Radiation with Matter, Hazards of Excessive Radiation Exposure, Methods of Personnel Protection, Detection of Radiation, Operation of Radiography Equipment & Ensuing Rules & Regulations including State of California requirements, AEC regulations, I.C.C. & Air Carriers, reports, etc. held March thru May 1967 & is entitled to this

**Certificate**

In witness whereof our signatures are hereunto affixed  
this 15th day of June 1967

*John Hill*  
COURSE CHAIRMAN

*Thomas B. ...*  
EDUCATION CHAIRMAN  
LOS ANGELES SECTION

*Robert ...*  
SECRETARY  
LOS ANGELES SECTION

STATEMENT OF TRAINING AND EXPERIENCE  
Application For Use of Sealed Sources in Radiography

This form should be used only by persons who wish to perform radiography under a "Limited Radiography License" as described in Section 3 of Applicant's Guide - Industrial Radiography, Form RH 2051-R.

INSTRUCTIONS: 1. Use separate form for each individual. 2. Additional pages may be attached. 3. Submit all material in duplicate to the Radiologic Health Section at the address given above. 4. See Applicant's Guide - Industrial Radiography, Appendix A, Section 3 for additional information.

1. a. Name of proposed radiographer TERRY L. KOCH  
b. To be included on Lic. No. \_\_\_\_\_ in name of \_\_\_\_\_

2. Experience:

List experience as a (1) Radiographer or (2) Radiographer's Assistant

a. Dates: From 4-71 to 12-72

Position Held: (1) RADIOGRAPHER (2) \_\_\_\_\_

Type of Equipment Used:  
(Make & Model No.) GAMMA CENTURY

Type and Amount of Activity:  
(Isotope and Curies) 7 100 CU. IR 192

Employer: BOOTH MOBILE INSP. Address: VENTURA, CA.

License No. (Agreement State or U.S. NRC) \_\_\_\_\_

b. Dates: From 1-73 to 2-74

Position Held: (1) RADIOGRAPHER (2) \_\_\_\_\_

Type of Equipment Used:  
(Make & Model No.) TECH/OPS 660

Type and Amount of Activity:  
(Isotope and Curies) 7 50 CU. IR 192

Employer: M.W. KULLOGE Address: AVILA BEACH, CA.

License No. (Agreement State or U.S. NRC) \_\_\_\_\_

c. Dates: From 2-74 to 9-75

Position Held: (1) RADIOGRAPHER (2) \_\_\_\_\_

Type of Equipment Used: TECH/OPS  
(Make & Model No.)

Type and Amount of Activity: CO 60  $\neq$  10 cu  
(Isotope and Curies)

Employer: GENERAL ELECTRIC Address: SAN JOSE, CA.

License No. (Agreement State or U.S. NRC) \_\_\_\_\_

d. Dates: From 7-84 to 7-88

Position Held: (1) RADIOGRAPHER (2) \_\_\_\_\_

Type of Equipment Used: TECH/OPS 660  
(Make & Model No.)

Type and Amount of Activity:  $\neq$  100 cu IR 192  
(Isotope and Curies)

Employer: ENG. TESTING ASSOC. Address: SPARKS, NV.

SERGEANT HAWKINS & DICKWITH

License No. (Agreement State or U.S. NRC) \_\_\_\_\_

3. Training:

a. High School Graduate:  Yes  No

b. College or University: Name and location ATHENS STATE COL. ATHENS, ALA.

Years completed 3 Degree \_\_\_\_\_ Course of study NOT SCIENCE

c. Training specific to use of sealed sources in industrial radiography (Name instructor and/or school and specify dates):

JOHN HALL ASNT COURSE 308 @ DON BISCO TECH.  
6-15-87

d. JOHN HALL determined compliance with 17 CAC 30333(a) [10CFR 34.31]

for the person named above by EXAM (COPY ATTACHED)

(Briefly describe test, on the job evaluation, etc. Written test copy may be attached)

4. CERTIFICATE

The proposed radiographer and any official executing this certificate on behalf of the licensee named in Item 1.b., certify that all information contained herein, including any supplements attached hereto, is true and correct.

[Signature]  
Proposed Radiographer named in Item 1.a.

Date

10-24-88

Robert L. Boothe  
Radiation Safety Officer

Date

10-24-88



**RADIOACTIVE MATERIAL LICENSE**

## Supplementary Sheet

12. The individuals listed below are the only persons authorized to act as radiographers under this license:

- |                      |  |
|----------------------|--|
| (a) Ralph Boothe     | (q) Diana Maddox                                 |
| (b) Robert L. Boothe | (r) Robert Mallory                               |
| (c) Rodney Boothe    | (s) Mark Martinez                                |
| (d) Eric Champman    | (t) Gary Lee McChain<br>(alias Steve Passanante) |
| (e) Robert Clancy    | (u) Kurt Miller                                  |
| (f) Tom Cuthbertson  | (v) Dave Neufeld                                 |
| (g) Fred Edmondson   | (w) John Ober                                    |
| (h) Steve Gann       | (x) Warren Owens                                 |
| (i) Renn Gibson      | (y) Bill Perensky                                |
| (j) Mark Gutierrez   | (z) Doug Pickering                               |
| (k) John Hoffman     | (aa) Bob Powell                                  |
| (l) Bob Jensen       | (ab) Fred Reeder                                 |
| (m) Terry Koch       | (ac) Sam Reeder                                  |
| (n) Pat Lewis        | (ad) Fred Stough                                 |
| (o) Mike Lieb        | (ae) James Stough                                |
| (p) Keith Madden     |  |

13. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in the documents listed below. The Department's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

- (a) The Stipulation for Settlement and Settlement Order effective September 4, 1987, modified by the Amendment to Settlement Order effective August 17, 1988, both signed by Timothy R. Patterson, Deputy Attorney General; Robert L. Boothe, President of Boothe-Twining, Inc.; and Stanley Cubanski, Chief Deputy Director of the California Department of Health Services.
- (b) the renewal application (with Application Attachments and Radiation Safety Program - BTI RSP 987) dated September 28, 1987, signed by Robert L. Boothe, modified by the letters (with attachments) dated November 20, 1987, and June 15, 1988, signed by Fred Stough and Robert L. Boothe, respectively.
- (c) The letter (excluding Item 3) dated December 5, 1988, signed by Tom W. Cuthbertson, with attachments.

For the State Department of Health Services

Date December 21, 1988

by \_\_\_\_\_

Radiologic Health Branch

**CERTIFICATION OF RADIATION SAFETY TRAINING  
FOR PREVIOUSLY TRAINED RADIOGRAPHERS**

I. Radiographer JOHN JOSEPH HOFFMAN Date of Hire 10-11-88

Date of Birth 5-21-40 Social Security No 192-30-8153 Jobsite VENTURA

II The above named Radiographer has been licensed previously to use radioactive sources as a fully qualified radiographer prior to employment with Boothe-Twining, Inc.. However, to insure that the individual has received adequate safety training prior to being designated as a qualified Radiographer, the following training and examination were given:

1. Informative instruction on Company's Operating and Emergency Procedures, instruments, sources, devices and equipment used in the course of their duties in Radiography.  
Instruction shall include NRC case Histories No. of Hrs. 6 Date 10-11-88  
8 Date 11-30-88
2. Passed a written examination to determine their knowledge of topics outlined the Company's Training Procedure and O&E P.  
Date 12-1-88 Exam Score 94%
3. Demonstrated satisfactorily their competence to perform Industrial Radiography and use the necessary related tools and equipment associated with such operations.  
Date 10-11-88 Exam Score 85%
3. Received instructions in the Company's Material License, O&E P, and State and/or Federal Regulations for Control of Radiation.  
Date 10-11-88 / 11-30-88

III. Previous training and experience as a Radiographer using Radioactive Sources as follows:

1. Employed as a Radiographer's Assistant from 1973 To 1976  
For (Company) BOOTHE-TWINING INC
2. Received formal instruction on topics outlined in the Company's Training Procedure, and State of California Title 17 (30335).  
Company RICHARD DONELSON & ASSOCIATES Date 6-1-76
3. Was first qualified as a Radiographer at (Company) BOOTHE-TWINING Date 1976
4. Have worked as a Radiographer for the following Company on the dates shown:  
BOOTHE-TWINING INC From 1973 To 1978  
IDEAL MOBILE X-RAY From 1982 To 1982  
From \_\_\_\_\_ To \_\_\_\_\_

IV. I hereby certify the above information is correct to the best of my knowledge.

John J. Hoffman  
Signature of Radiographer

[Signature]  
Individual Administering Training/Exam

Date 12-1-88

Date 12-1-88

Approved by the RSO [Signature]

Date 12-5-88

# Certificate

JOHN J. HOFFMAN

has successfully completed the  
**RADIATION SAFETY COURSE**  
for  
**RADIOGRAPHERS**

PRESENTED BY  
**RICHARD DONELSON & ASSOCIATES**

*R.D. Donelson* 6/1/76



RADIATION SAFETY TRAINING CERTIFICATION

PRACTICAL EXAMINATION -- RADIOGRAPHER

PREVIOUS EXPERIENCE

Individual's Name John J. Hoffman Date 10-11-88  
Date of Birth 5-21-40 Social Security No. 192-30-8153  
Jobsite Ventura Examiner TWC Score 85%

| <u>Points</u> |   | <u>Points Received</u> |
|---------------|---|------------------------|
| 10            | 1. Understands the Operating and Emergency Procedures.  | <u>8</u>               |
| 15            | 2. Understands and is familiar with exposure devices and their operation.                             | <u>13</u>              |
| 10            | 3. Understands Basic Radiation Safety.  | <u>8</u>               |
| 10            | 4. Uses the proper technique in handling and moving an exposure device on the jobsite.                | <u>9</u>               |
| 5             | 5. Understands personnel monitoring.  | <u>5</u>               |
| 15            | 6. Understands the proper sequence of steps taken to avoid radiation exposure to personnel.           | <u>13</u>              |
| 5             | 7. Understands and follows instructions.  | <u>4</u>               |
| 5             | 8. Understands the necessary paperwork involved and properly completes the correct forms as required. | <u>4</u>               |
| 5             | 9. Understands the requirements of Federal and/or Agreement States Regulations.                       | <u>3</u>               |
| 20            | 10. Understands the necessary steps to be taken in case of an emergency.                              | <u>18</u>              |

Note: A minimum of 80 points is required for passing this examination.

REMARKS OF THE EXAMINER \_\_\_\_\_

EXAMINER

[Signature]

DATE

10-11-88

**STATEMENT OF TRAINING AND EXPERIENCE**  
**Application For Use of Sealed Sources in Radiography**

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**INSTRUCTIONS:** 1. Use separate form for each individual. 2. Additional pages may be attached. 3. Submit all material in duplicate to the Radiologic Health Branch at the address given above. 4. See Applicant's Guide - Industrial Radiography, Appendix A, Section 3 for additional information.

1. a. Name of proposed radiographer JOHN JOSEPH HOFFMAN  
 b. To be included on Lic. No. 2181-56 in name of Boothe-Twinning Inc

2. Experience:

List experience as a (1) Radiographer or (2) Radiographer's Assistant

a. Dates: From 1976 to 1978

Position Held: (1) RADIOGRAPHER (2) \_\_\_\_\_

Type of Equipment Used:  
(Make & Model No.)

Type and Amount of Activity:  
(Isotope and Curies) IRIDIUM -192 105

Employer: BOOTHE-TWINNING INC Address: WAGON-WHEEL OXNARD.

License No. (Agreement State or U.S. NRC) 2181-56

b. Dates: From 1973 to 1976

Position Held: (1) RADIOGRAPHER ASST. (2) \_\_\_\_\_

Type of Equipment Used:  
(Make & Model No.) IRIDIUM 192 -

Type and Amount of Activity:  
(Isotope and Curies) 105

Employer: BOOTHE-TWINNING INC Address: WAGON WHEEL - OXNARD.

License No. (Agreement State or U.S. NRC) 2181-56

c. Dates: From 1982 to 1982

Position Held: (1) Radiographer (2) \_\_\_\_\_

Type of Equipment Used: Gamma Centurys  
(Make & Model No.)

Type and Amount of Activity: Iridium 192 100 Curies  
(Isotope and Curies)

Employer: Ideal Mobile X-Ray Address: Santa Paula CA

License No. (Agreement State or U.S. NRC) 3841-56

d. Dates: From \_\_\_\_\_ to \_\_\_\_\_

Position Held: (1) \_\_\_\_\_ (2) \_\_\_\_\_

Type of Equipment Used:  
(Make & Model No.)

Type and Amount of Activity:  
(Isotope and Curies)

Employer: \_\_\_\_\_ Address: \_\_\_\_\_

License No. (Agreement State or U.S. NRC) \_\_\_\_\_

3. Training:

a. High School Graduate:  Yes  No

b. College or University: Name and location VENTURA COLLEGE

Years completed 3 Degree NO Course of study BUSINESS Mgmt.

c. Training specific to use of sealed sources in industrial radiography (Name instructor and/or school and specify dates):

d. Tom W. Cuthbertson determined compliance with 17 CAC 30333(a) [10CFR 34.31]  
NAME  
for the person named above by certificate of completion  
(Briefly describe test, on the job evaluation, etc. Written test copy may be attached)  
Given by Richard Donelson & Associates  
June of 1976

4. CERTIFICATE

The proposed radiographer and any official executing this certificate on behalf of the licensee named in Item 1.b. certify that all information contained herein, including any supplements attached hereto, is true and correct.

John J. Holman  
Proposed Radiographer named in Item 1.a.

[Signature]  
Radiation Safety Officer

10-11-88  
Date  
12-5-88  
Date



**RADIOACTIVE MATERIAL LICENSE**

Supplementary Sheet

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|----------------------|--------------------------|
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| (e) Robert Clancy    | (alias Steve Passanante) |
| (f) Tom Cuthbertson  | (u) Kurt Miller          |
| (g) Fred Edmondson   | (v) Dave Neufeld         |
| (h) Steve Gann       | (w) John Ober            |
| (i) Renn Gibson      | (x) Warren Owens         |
| (j) Mark Gutierrez   | (y) Bill Perensky        |
| (k) John Hoffmar     | (z) Doug Pickering       |
| (l) Bob Jensen       | (aa) Bob Powell          |
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For the State Department of Health Services

Date December 21, 1988

by \_\_\_\_\_ 1

Radiologic Health Branch