

**CONAM INSPECTION**

6106 Rookin Street
Houston, Texas 77074-3792
(713) 774-9657

May 1, 1985

85 MAY -7 19:48

United States Nuclear Regulatory Commission
Division of Fuel Cycle and Material Safety
Radioisotope Licensing Branch
Washington, D.C. 20555

Reference: License # 42-16559-01 Amendment 13

Gentlemen:

Conam Inspection wishes to amend the above referenced license to reflect the following changes.

1. Item 7C currently reads:

C. Automation Industries Model 200-520-009 or 200-520-010, Gamma Industries Model B-8-G, Gulf Nuclear Model RAG-17, or Source Production and Equipment Model B-16 or Automation Industries Model 200-520-011 Sealed Sources.

Revise to read:

C. Automation Industries Model 200-520-009, 200-520-010 or 200-520-011, Gamma Industries Model B-8-A, Gulf Nuclear Model RAG-17 or Source Production and Equipment Model B-16 Sealed Sources.

The revision includes changing Gamma Industries Model B-8-G to B-8-A

Our Operating and Emergency Procedure (O & E pg. 59) and Radiation Safety Administrative Manual (R.S.A.M. pg. 26) have been revised through both the addition and deletion of radiation safety personnel. A list is provided below to indicate changed personnel. For personnel additions also see resumes enclosed.

**RADIATION SAFETY
PROGRAM PERSONNEL**

O & E

ADDITIONS

N. Jaroch
R. Momsen
G. Mayberry
W. Broyles
R. Kaer
R. Kay

DELETIONS

B. Skinner
G. Accadia
R. Hager
D. Shankles
N. Fergusson
R. Davis

| | |
|------------------|----------|
| RECEIVED BY LFMB | |
| Date... | 5/8/85 |
| Leg... | Apr 5 IV |
| By... | Brown |
| Orig. To... | 2 |
| Action Compl. | 5/9/85 |

| | |
|--------------|-----------|
| Applicant... | CONAM |
| Check No. | 30952 |
| Amount... | \$230/30 |
| Type of... | Amendment |
| Date... | 5/8/85 |
| Received... | Brown |

8508290335 850611
REG4 LIC30
42-16559-01 PDR

18947
18949

CONAM INSPECTION

ADDITIONS

DELETIONS

C. Wilson
K. Long
G. Knutson
K. Waggoner
J. Tetrev
M. Boysen
R. Horne
J. Nash
R. Recchia
L. Powers
C. Rentzell
K. Sumrall
J. Nolting
L. Anderson

R.S.A.M.

ADDITIONS

N. Jaroch
R. Momsen
G. Mayberry
W. Broyles
R. Kaer
R. Kay

DELETIONS

C. Rentzell
J. Nolting
L. Powers
L. Anderson
K. Sumrall
R. Recchia
P. Gutowski
K. Waggoner
K. Long
J. Nash
G. Knutson
B. Skinner
D. Shankles
C. Wilson
J. Tetrev
R. Horne
M. Boysen
R. Hager
N. Fergueson
G. Accadia
R. Davis

We have included, for your records, two (2) draft copies of our O & E and R.S.A.M. with color highlighted changes.

They are as follows:

CONAM INSPECTION

O & E:

| <u>Page</u> | <u>Description</u> |
|-------------|--|
| ✓ 7 | Add to (b) - G.E. Smith M2000 |
| 59 | See Personnel addition/deletion list |
| 60 | - Reserved - |
| ✓ 64 | Revise Id# from NA 9182 to UN2974 |
| ✓ 74 | Revised from to current (9-84) copy |
| ✓ 75 | Revised Id# from NA 9182 to UN2974 - |
| ✓ 75 | Revised USA/9006/B to USA/9006/B(U) |
| ✓ 75 | Revised USA/9007/B to USA/9007/B(U) |
| ✓ 76 | Added Combination Airbill/Shipper Certification |
| ✓ 77 | Added Instructions |
| ✓ 78 | Revised Id# from NA 9182 to UN2974 |
| ✓ 79 | Revised "DANGER-PELIGRO" to "DANGER" |
| ✓ 79 | Revised Id# from NA 9182 to UN2974 |
| ✓ 80 | Revised Id# from NA 9182 to UN2974 |
| ✓ 80 | Revised USA/9006/B to USA/9006/B(U) |
| ✓ 81 | Same as pg. 80 |

R.S.A.M.

| <u>Page</u> | <u>Description</u> |
|-------------|---|
| ✓ 4 | Revised to clarify 5.1 i.e. "... (a) or (b) plus (c) below." |
| ✓ 11 | Revised typographical error in 6.3 (a). Changed ... <u>one</u> occasions, ... to <u>on</u> occasions, ... |
| ✓ 26 | See Personnel Addition/Deletion list |
| 27 | Incorporated into page 26 |

Also enclosed please find our check for \$230.00 as re-
quired by 10 CFR Part 170, paragraph 170.12c and 170.31, 3
'0'.

If I can supply you with further information please
contact me.

Sincerely

Otis C. Gamble
Radiation Safety Officer

cc: File

CONAM INSPECTION

PERSONAL QUALIFICATIONS

Raymond Momsen

FORMAL EDUCATION: Moraine Valley Community College, Palos Hills, IL.
Graduated May, 1983
Associate of Science
Associate of Applied Science, Nondestructive Evaluation
Certificates in Industrial Radiography, Surface Testing, and Ultrasonic Evaluation
University of Illinois, Urbana, IL.
1982 - 1983
Science Curriculum
Ball State University, Muncie, IN.
1979 - 1980
General Curriculum
Carl Sandburg High School, Orland Park, IL.
Graduated 1979

EDUCATION: 9/82 - 1/83 - Moraine Valley Community College, Palos Hills, IL: Received 153 hours of training in Industrial Radiography and Radiation Safety.
5/11/83 - Vermont Yankee Nuclear Power Corp., Vermont, VT: Received approximately 8 hours of training in Radiation Safety and Nuclear Power Plant Safety.
1/5/84 and 8/21/84 - United States Testing Co., Inc., Elk Grove Village, IL: Received 16 hours of training on Commonwealth Edison Special Process Procedures Manual - Nondestructive Evaluation.
1/6/84 - Commonwealth Edison Co., Quad Cities Nuclear Power Station, Cordova, IL: Received approximately 8 hours of training in Radiation Safety and Nuclear Power Plant Safety.

EXPERIENCE: Employed as a Radiographer, Nondestructive Evaluation Technician, Radiographic Supervisor, and Radiation Safety Supervisor by CONAM Inspection, Itasca, IL. Training and experience completed for Level II certification by CONAM on 12-10-84.
10/83 - 11/84 - United States Testing Co., Inc., Elk Grove Village, IL: Employed as Level II PT, MT, VT and RT; Level I UT.

CONAM INSPECTION

RESUME CONTINUED

Raymond Momsen

RADIOGRAPHIC EQUIPMENT USED:

X-Ray: Phillips Co., Model G220/8,220 KVP-8MA;
Torr X-Ray Corp., Model 150KVP/832, 150 KVP-5
MA; and Automation Industries Sperry X-Ray,
Model 65D119, 275 KVP-10MA.

Gamma Ray: Technical Operations Models 533 and 660 for
IR-192, Model 446 for CO-60, and Model 571 for
CO-60 calibration source; Budd Company and Aut-
omation Industries Model 520 for IR-192; Aut-
omation Industries Model Multirition 151H for CO-60,
and Model 500 SU source changer; Gamma "Century"
Model for IR-192; and Gulf Nuclear Model IC51 for
Cesium 137 calibration source.

CONAM INSPECTION

PERSONAL QUALIFICATIONS

George B. Mayberry, Jr.

EDUCATION: Temple University - Philadelphia, PA.
Metallurgy, 1964 to 1970.

Temple University Evening Division
Non-Destructive Test Engineering,
1966 to 1967.

Metals Testing Company
Radiation Safety - 40 hours.
Handling, use and storage of radioactive
material and equipment as it related to
N.R.C. requirements. Equipment included
Budd 100, 100A and Tech Ops exposure de-
vices and controls.

Temple University
Radiation Safety and Handling, 1967 - 20 hours.
Non-Destructive Engineering course in the use
of isotope and x-ray theory, applications and
safety, with reference made to parts 20, 30
and 34 of the N.R.C. rules and regulations.

Radiation Safety (Refresher Courses) - 30 hours,
1971 to 1975.

EXPERIENCE: 1968 to 1969 - General Electric Company
Radiographer Assistant. X-ray applications.

1969 to 1971 - Metals Testing Company
Radiographer Level II (Supervisor) Experience
included Budd 100, 100A exposure devices and
controls.

1971 to 1976 - Metals Testing Company
Manager of Operations, Isotope Administrator (RSO)

1976 to 1978 - United Engineers and Constructors
Supervisor Engineer
Level III for RT Program; Radiation Safety Officer
for all isotope work. Material license consultation,
and instruction in Radiation Safety.

1978 to 1982 - Pennsylvania X-Ray Corporation
Manager Industrial Division
Consultation and Training in Radiation Safety
License preparation and detailed instruction
with radiation producing equipment (x-ray, gamma
ray) manufactured by Automation Industries Model 520

CONAM INSPECTION

RESUME CONTINUED
George B. Mayberry, Jr.

1982 to 1983 - Automation Industries, Phoenixville,
PA. General Manager

Responsible for overall operations at Phoenixville
facility, relating to manufacturing, storage, cali-
bration, testing, and transportation of all licensed
by-product nuclear material.

1984 to Present - Conam Inspection Division, Folcroft,
PA. General Mnnager

Overall responsibility for Radiation Safety Program
for laboratory and field operations.

Duties include instruction and training for all radio-
graphic personnel for by-product material and equip-
ment.

TECHNICIAL ACTIVITIES:

A.S.N.T. - Director, Philadelphia Section

CONAM INSPECTION

PERSONAL QUALIFICATIONS

Randolph T. Kay

EDUCATION: Radiation Safety Course - US Navy (80 hours)

RT - Operations - US Navy (440 hours)

RT - Bechtel (40 hours)

EXPERIENCE: 1/10/85 to present - Level III RT,PT,MT

10/11/84 to 10/10/85 - Level III RT,PT,MT

Quality Assurance Engineer, ASNT Level III RT,PT,MT

Quality Control Engineer, Bechtel II RT Interpretation,
PT,MT,VE,UT

Level II RT,UT; Level III PT,MT,VT

Senior Radiographer on the USS AJAX

EMPLOYMENT: 10/84 to present - Nuclear Energy Services at Three
Mile Island Nuclear Station

10/83 to 7/84 - Great Lakes Technology, Inc. at
Midland Project

9/80 to 12/81 - Bechtel Energy Corp. at San Onofre
Units 2 and 3

12/81 to 10/83-Bechtel Energy Corp. at South Texas
Project

10/75 to 8/80 and 1/71 to 3/75 - U.S. Navy

EQUIPMENT USED : Tech Ops 533 - 100 curies

Tech Ops 660 - 100 curies

Budd 40B - 30 curies

Tri Index - 350 Kv 10 MA

Norelco - 200 Kv 7 MA

CONAM INSPECTION

PERSONAL QUALIFICATIONS

Ronald A. Kaer

EDUCATION: 1980, 1984 and 1985 - General Public Utilities Service Company - Various courses relating to Health Physics and work in radiation areas

EXPERIENCE: Project Manager for NES at Oyster Creek; Quality Control Monitor and Program Review for the utility. Assistant Director and Administrative Engineering Assistant - Quality Confirmation Program at Zimmer Vendor Document Reviewer - to assure compliance with all applicable codes and standards
Senior Site Quality Assurance Engineer. Acting Supervisor of N-5 Data Group during Supervisor's absence. Responsible for the RT crew

Lead Quality Assurance Monitor

Assistant Field Engineer

EMPLOYMENT: 8/81 to present - Nuclear Energy Services at Danbury office, Oyster Creek Nuclear Generating Station and Wm. H. Zimmer Nuclear Power Station

4/81 to 8/81 - Bechtel Power Corporation at Hope Creek Generating Station

11/80 to 4/81 and 8/78 to 4/80 - Courter and Company Incorporated at Shoreham Nuclear Power Station

4/80 to 10/80 - General Public Utilities Service Corp. at Three Mile Island Nuclear Generating Station

3/76 to 8/78 - Bechtel Power Company at Limerick Nuclear Generating Station

CONAM INSPECTION

RESUME

EDWIN WAYNE BROYLES

1. EMPLOYMENT

- A. Conam Inspection, Richmond, California
January 1985 to present
- B. Mare Island Naval Shipyard, Vallejo, California
April 1979 to January 1985
- C. Conam Inspection, Richmond, California
November 1969 to April 1974
- D. Mare Island Naval Shipyard, Vallejo, California
March 1966 to November 1969

2. EXPERIENCE

- A. Utilizing, supervising and instructing in the use of byproduct materials. July 1966 to present
- B. Radiographer and Instructor - Assisted in training radiographic personnel in the safe handling and use of byproduct materials and X-ray machines. Training materials - Local radiation safety procedure and the NRC requirement 10 CFR 19,20,21,30 and 34.
- C. Radiation Equipment

| Activity | Maximum Curie Strength | Type of Device |
|----------|------------------------|--------------------|
| Ir 192 | Up to 100 Curies | AII Model 520 |
| Ir 192 | Up to 100 Curies | Tech Ops Model 660 |
| Ir 192 | Up to 100 Curies | Tech Ops Model 796 |
| Co 60 | Up to 100 Curies | Tech Ops Model 680 |
| Co 60 | Up to 30 Curies | Tech Ops Model 741 |
| X-Ray | 140 KV to 250 KV | |

3. TRAINING

- A. Classroom training in the requirements of NRC 19,20,21,30 and 34 and local radiation safety procedures is as follows:
 - 1. Radiation Safety Radiographers Assistant, Mare Island Naval Shipyard - 40 hours - July 1966
 - 2. Radiation Safety Radiographers, Conam Inspection April 1971
 - 3. Radiation Safety Radiographer, Mare Island Naval Shipyard - 23 hours - December 1974
 - 4. Radiation Safety Radiographer, Mare Island Naval Shipyard - 20 hours - November 1977
 - 5. REM Reduction Upgrading, Mare Island Naval Shipyard 2 hours - May 1979

CONAM INSPECTION

RESUME CONTINUED
EDWIN WAYNE BROYLES

6. Radiation Control Reverification, Mare Island
Naval Shipyard - 4 hours - May 1979
7. Radioactive material Accountability, Mare Island
Naval Shipyard - 1 hour - August 1979
8. Radiation Safety Radiographer, Mare Island
Naval Shipyard - 24 hours - October 1979
9. Radiation Safety Radiographer, Mare Island
Naval Shipyard - 44 hours - November 1981
10. Radiation Control Reverification, Mare Island
Naval Shipyard - 4 hours - April 1982
11. Radiation Control Training Evaluation, Mare Island
Naval Shipyard - 4 hours - July 1982
12. Radiation Safety Radiographer, Mare Island
Naval Shipyard - 44 hours - March 1974
13. Radiation Control Training Evaluation, Mare Island
Naval Shipyard - 6 hours - June 1984

CONAM INSPECTION

RADIATION SAFETY RESUME OF NORBERT JAROCH

I EMPLOYMENT

- A. Aerojet Manufacturing Co. - Fullerton, CA
March 1972 to May 1975
- B. Fluor Constructors, Inc. - Irvine, CA
February 1980 to November 1984
- C. Conam Inspection - Roseville, MN
March 1984 to Present

II EXPERIENCE Utilizing & Supervising The Use Of By-Product Material

- A. Nondestructive Testing Supervisor & Engineer
March 1972 to May 1975
- B. Chief Inspector
February 1980 to November 1984
- C. General Manager
March 1984 to Present

III RADIATION EQUIPMENT

| <u>Isotope</u> | <u>Max. Curie Strength</u> | <u>Type of Device</u> |
|----------------|----------------------------|-----------------------|
| A. IR192 | up to 100 Curies | AII Mod. 520 |
| B. IR192 | up to 100 Curies | Gamma Century |
| C. IR192 | up to 100 Curies | AII Multitron |
| D. CO 60 | up to 100 Curies | AII Multitron |

IV TRAINING

- A. University of California at Long Beach
1971 B.S. Industrial Technology - Mfg.
- B. Don Bosco Technical Institute - Rosemead, CA
1962 Graduate - Metallurgy & N.D.E.
- C. Nuclear Radiological Health & Safety
1972 Satisfactory Completion 40 Hours
Los Angeles Chapter of A.S.N.T.
- D. Conam Inspection - March 1984 to Present
8 Hours Radiation Safety Training Per Year