

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.

FEDERAL AGENCIES FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION
DIVISION OF FUEL CYCLE AND MATERIAL 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, PENNEYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I
NUCLEAR MATERIAL SECTION B
631 PARK AVENUE
KING OF PRUSSIA, PA 19406

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
MATERIAL RADIATION PROTECTION SECTION
101 MARIETTA STREET, SUITE 2900
ATLANTA, GA 30323

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
799 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
MATERIAL RADIATION PROTECTION SECTION
1450 MARIA LANE, SUITE 210
WALNUT CREEK, CA 94596

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 _____
☒ C. RENEWAL OF LICENSE NUMBER 37-19640-01

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

Tri State Inspection & Consultants
115 Island Avenue
McKees Rocks, PA 15136

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

Temporary job sites in States subject to NRC's regulatory authority, or agreement States subject to their rules and regulations; and at 115 Island Avenue, McKees Rocks, PA 15136.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Alfred J. Mueller, Jr.

TELEPHONE NUMBER

(412) 771-0262

SUBMIT ITEMS 5 THROUGH 11 ON 8 1/2 x 11" 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.

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

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

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)

3. Byproduct Mat'l. (0) AMOUNT ENCLOSED \$ 700.00

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 WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

SIGNATURE—CERTIFYING OFFICER

Alfred J. Mueller, Jr.

TYPED/PRINTED NAME

Alfred J. Mueller, Jr.

TITLE

Radiation Safety Officer

DATE

10-15-86

14. VOLUNTARY ECONOMIC DATA

ANNUAL RECEIPTS

<\$250K

\$1M-3.5M

\$250K-500K

\$3.5M-10M

\$500K-750K

\$750K-1M

b. NUMBER OF EMPLOYEES (Total for entire facility excluding outside contractors)

8801270471 870812

REG 1 LIC 30

37-19640-01

PDR

d. WOULD YOU BE WILLING TO FURNISH COST INFORMATION (dollar and/or staff hours) ON THE ECONOMIC IMPACT OF CURRENT NRC REGULATIONS OR ANY FUTURE PROPOSED NRC REGULATIONS THAT MAY AFFECT YOU? (NRC regulations permit it to protect confidential commercial or financial—proprietary—information furnished to the agency in confidence)

☐ YES

☐ NO

FOR NRC USE ONLY

TYPE OF FEE

Renewal

FEE LOG

687.15¹

FEE CATEGORY

30

COMMENTS

106300

APPROVED BY

A. Kennedy

AMOUNT RECEIVED

8700

CHECK NUMBER

7362

DATE

20 OCT 1986

10/29/86

PRIVACY ACT STATEMENT

Pursuant to 5 U.S.C. 552a(e)(3), enacted into law by section 3 of the Privacy Act of 1974 (Public Law 93-579), the following statement is furnished to individuals who supply information to the Nuclear Regulatory Commission on NRC Form 313. This information is maintained in a system of records designated as NRC-3 and described at 40 Federal Register 45334 (October 1, 1975).

1. **AUTHORITY:** Sections 81 and 161(b) of the Atomic Energy Act of 1954, as amended (42 U.S.C. 2111 and 2201(b)).
2. **PRINCIPAL PURPOSE(S):** The information is evaluated by the NRC staff pursuant to the criteria set forth in 10 CFR Parts 32, 33, 34, 35 and 40 to determine whether the application meets the requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations, for the issuance of a radioactive material license or amendment thereof.
3. **ROUTINE USES:** The information may be (a) provided to State health departments for their information and use; and (b) provided to Federal, State, and local health officials and other persons in the event of incident or exposure, for their information, investigation, and protection of the public health and safety. The information may also be disclosed to appropriate Federal, State, and local agencies in the event that the information indicates a violation or potential violation of law and in the course of an administrative or judicial proceeding. In addition, this information may be transferred to an appropriate Federal, State, or local agency to the extent relevant and necessary for an NRC decision or to an appropriate Federal agency to the extent relevant and necessary for that agency's decision about you.
4. **WHETHER DISCLOSURE IS MANDATORY OR VOLUNTARY AND EFFECT ON INDIVIDUAL OF NOT PROVIDING INFORMATION:** Disclosure of the requested information is voluntary. If the requested information is not furnished, however, the application for radioactive material license, or amendment thereof, will not be processed. A request that information be held from public inspection must be in accordance with the provisions of 10 CFR 2.790. Withholding from public inspection shall not affect the right, if any, of persons properly and directly concerned need to inspect the document.
5. **SYSTEM MANAGER(S) AND ADDRESS:** U.S. Nuclear Regulatory Commission
Director, Division of Fuel Cycle and Material Safety
Office of Nuclear Material Safety and Safeguards
Washington, D.C. 20555

ITEM 5 - RADIOACTIVE MATERIAL

SEALED SOURCES TO BE USED IN RADIOGRAPHY

By Product Material	Mfg. Name	Source Model No.	Mfg. Name	Model No.	Model No. for Source Changers	Max. Activity (Curries) per Source
A. Iridium 192	Tech-Ops Gamma Ind.	A-424-1 T-1-T, T-1-A, T-1-G	Tech-Ops Gamma Ind.	T/O 490, T/O 533	650 C-10	100
B. Iridium 192	Tech-Ops Gamma Ind.	A-424-9 T-3-T	Tech-Ops Gamma Ind.	T/O 660	650 C-10	100
C. Iridium 192	Gamma Ind. Tech-Ops Automation Ind.	A-2-TC, A-2-A, A-2-G 848 39998	Gamma Ind. Tech-Ops Automation Ind.	Century	C-10 650 500SU	100
D. Iridium 192	Gamma Ind.	GP	Gamma Ind.	Pipeline #1	None	100
E. Cobalt 60	Gamma Ind.	A-7-A	Gamma Ind.	Gammacon #20A	C-8	20
F. Iridium 192	Tech-Ops	90003	Tech-Ops	Tech-Ops 920	T/O 850	200
G. Iridium 192	Tech-Ops Gamma Ind.	A-58101-8 TP	Tech-Ops Gamma Ind.	Tech-Ops 616	None None	200
H. Cesium 137	Tech-Ops	77302	T/O Calibrator	Tech-Ops 773	None	.16
I. Iridium 192	Gamma Ind.	PI-2	Gamma Ind.	Pipeline #201	None	200
J. Cobalt 60	Gamma Ind.	A-8-A	Gamma Ind.	Gammacon 100A	C-8	100
K. Cesium 137	Gamma Ind.		J. L. Sheppard	Calibrator: Model 28-5	None	.12
L. Cesium 137	Gamma Ind.		J. L. Sheppard	Calibrator: Model 28-6A	None	1.2

T/O = Tech-Ops

ITEM 6 - Purposes for which licensed material will be used:

Tri State Inspection & Consultants will use the equipment listed in this license for the purposes of industrial radiography, source exchange and instrument calibration.

106300

"OFFICIAL RECORD COPY"

ITEM 7 - Individuals Responsible for Radiation Safety Program:

The chart shown on the following page shows the company organization as it relates to radiation safety. A Radiation Safety Officer exists at each location which maintains a license. The Radiation Safety Officer is responsible for the day to day conduct, management and supervision of the radiography program.

The following individuals are responsible for Radiation Safety:

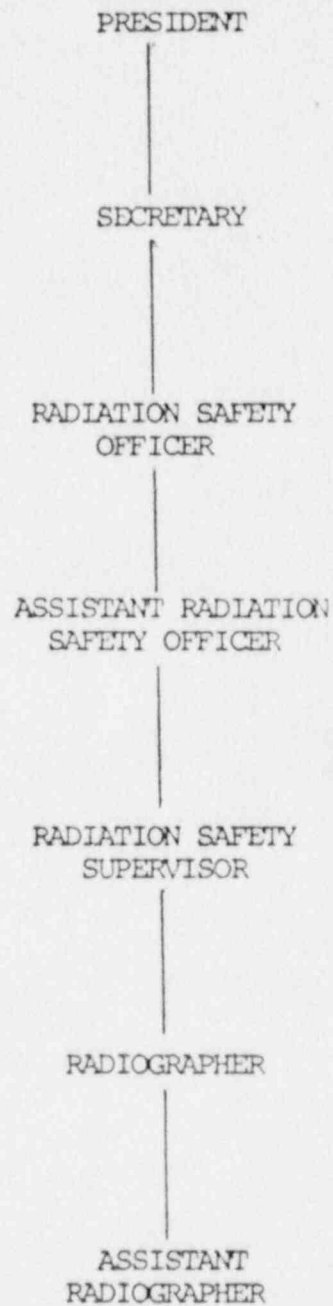
Alfred J. Mueller	Radiation Safety Officer (RSO)
Michael H. Stiger	Assistant Radiation Safety Officer (ARSO)
Michael H. Stiger	Radiation Safety Supervisor (RSS)

The specific training and experience for the above named individuals is attached. Dates of training, where and by whom and on-job training specifics are also included.

ITEM 7

ATTACHMENT NO. 1

RADIATION SAFETY PROGRAM ORGANIZATION CHART



Alfred J. Mueller

Education

June 1954	Moon High School Coraopolis, Pa.
Technical Schools:	
April 3, 1969	MAGNAFLUX CORPORATION Chicago, Ill. 15 hrs. Magnetic Particle
April 3, 1969	MAGNAFLUX CORPORATION Chicago, Ill. 15 hrs. Liquid Penetrant Inspection
April 11, 1969	PICKER NUCLEAR CORPORATION Cleveland, OH 40 hrs. Radioactive Isotopes
April 17, 1969	PICKER INDUSTRIAL CORPORATION Cleveland, OH 40 hrs. Industrial Radiography X-rays
PDM in House Training: Navships (250-1500-1) February-March 1971	Radiographic Testing to (250-1500-1) 10 hrs. Magnetic Particle Testing to (250-1500-1) 10 hrs. Liquid Penetrant Testing to (250-1500-1) 10 hrs. Visual & Dimensional Testing to (250-1500-1) 15 hrs.
November 1971	General Dynamics Instruction Book Self-instruction Programmed Test Radiography - 16 hrs.
November 1971	General Dynamics Instruction Book Self-instruction Programmed Test Magnetic Particle - 8 hrs.
December 1971	General Dynamics Instruction Book Self-instruction Programmed Test Liquid Penetrant - 6 hrs.

Alfred J. Mueller

Education

January 1972

Industrial Radiography
Kodak Self-instruction Book
8 hrs.

August 1972

On-The-Job-Training:
PITTSBURGH-DES MOINES STEEL
COMPANY
Pittsburgh Plant

Review procedures and instructions
for Pressure Testing and Leak
Detection of Vessel
10 hrs.

April 1973 to May 1973

On-The-Job-Training:
PITTSBURGH-DES MOINES STEEL
COMPANY
PITTSBURGH PLANT

Read PDM Halide Leak Test Procedure,
Section V Leak Testing of Welded
Vessels, General Electric Publica-
tions 4540K15-001A, 4540K10-001B,
4540K52-001A and Customer Spec.
20 hrs.

Read 1967 symposium on leak testing
of welds.
8 hrs.

Read PDM Vacuum Box Procedure,
Section V, Article X, Leak Testing
of Welded Vessels, Section of
Leak Testing
4 hrs.

Review procedures and instructions
for pressure differential testing
and bubble testing.
5 hrs.

Reviewed procedures, codes and
instructions for Visual &
Dimensional Inspection.
5 hrs.

April 1974

American Society For Nondestructive
Testing - Pittsburgh, Pa.
Specifications commonly used for NDT.
10 hrs.

April 1975

American Society for Nondestructive
Testing - Pittsburgh, Pa.
NDT Compliance, Documentation and
Reporting.
10 hrs.

April 1975

Mobil Paint School
Edison, N.J.
Surface preparation and Coating
Application.
40 hrs.

Alfred J. Mueller

Education

February 1976

Dupont Photo Technical Service
Wilmington, Delaware
X-Ray Processing Center
Automatic Processing, School
40 hrs.

February 1976

Course in Modern Supervisory
Techniques From Applied Management
Science, Inc.
20 hrs.

April 1977

AWS Welding Inspection Handbook
Visual Inspection
6 hrs.

April 1977

Inspection Course
Visual & Dimensional Inspection to
include procedure spec., documentation
inspections and equipment for welds.
3 hrs.

January 6, 1978
In house training:
PITTSBURGH-DES MOINES STEEL
CO. - Pittsburgh Plant

Radiation Safety Program Course
by PDM entitled "Radiation Safety
Program".
8 hrs.

January 11, 1978
In house training:
PITTSBURGH-DES MOINES STEEL
CO.- PITTSBURGH PLANT

Course in Managing For Motivation
by Xerox Learning System
(24 hrs.)

January 1978
In house training:
PITTSBURGH-DES MOINES STEEL
CO.-Pittsburgh Plant

General Dynamics Instruction Book
Self-instruction Programmed Test
for UT
20 hrs.

February 1978
In house training:
PITTSBURGH DES-MOINES STEEL
COMPANY - Pittsburgh Plant

General Dynamics Audiovisual Course
In Ultrasonic Testing.
12 hrs.

February 21, 1978 To March 21,
1978

AWS Lecture Series
"Review and explanation of Welding
Code Requirements". This included
AWS D1.1, ASME Section III and
Section IX.
8 hrs.

Alfred J. Mueller

Education

April 11, 1978 to May 9, 1978	ASNT Magnetic Particle Course at Pittsburgh ASNT Section. taught by Johnny Johnson. 16 hrs.
March 1979 to April 1979	AWS Lecture Series Review and explanation of basic welding metallurgy in ferrous and non-ferrous metals. 10 hrs.
March 1979 to May 1979	Radiographic Inspection Course at Pittsburgh ASNT Section taught by Johnny Johnson. 10 hrs.
May 1979	New Dynamics Of Achievement Seminar William Penn Hotel Pittsburgh, Pa. Human Behavior Course 6 hrs.
October 1979	Krautkramer-Branson, Inc. Basic Ultrasonic Testing Course For Level I. 40 hrs.
April 7, 8 & 10, 1980	Human Engineering Program by Victor Short 10 hrs.
February to March 1980 In house training: PITTSBURGH-DES MOINES STEEL CO.-Pittsburgh Plant	Training program for AWS Certification of Welding Inspectors. 23 hrs.
March 29, 1980 AWS TEST	Took test and have complied with the requirements of the AWS Standard for Qualification and Certification of Welding Inspectors, QC 1-80. 8 hrs.
January 1981 - March 1981	Dale Carnegie Course - Training in Effective Speaking and Human Relations at the William Penn Hotel at Pittsburgh, PA.
March 1981	Visual Testing of Welds. Course presented by ASNT Pittsburgh Section taught by Larry W. Taylor. 20 hours

Alfred J. Mueller

Job Experience

- 1962 Pittsburgh-Des Moines Steel Company
Pittsburgh Plant
NDT Technician using processes:
Radiography, Dye Penetrant, Magnetic
Particle, Vacuum Test, Pneumatic Test.
Also visual weld and dimensional in-
spection. The NDT Process included
establishing a procedure, making the
test and evaluating the results.
Listed below are some of the jobs that
Mr. Mueller performed.
- 1962 Predicktown, N.J., two spherical double
walled shell tanks for liquid hydrogen
storage built to ASME VIII.
- 1963 Farmington, Long Island, a vacuum chamber
for Republic Aircraft built to ASME VIII.
- 1963 Huntsville, Alabama, two LOX tanks at the
Red Stone Arsenal for NASA built to ASME
VIII.
- 1964 Huntsville, Alabama, a spherical double
shell liquid hydrogen tank for NASA at
Red Stone Arsenal built to ASME VIII.
- 1965 Avon Lake, Ohio, a single shell storage
sphere for the B.F. Goodrich Chemical Co.
built to ASME VIII.
- 1966 Clairton, Pa., four double shell anhydrous
ammonia tanks built to API 620 requirements.
- 1967 Bayonner, N.J., four flat bottom API 650
Appendix D oil storage tanks for Standard
Oil Company.
- 1968 Oswego, N.Y., four aluminum tanks built to
ASME Specifications, at the Nine Mile
Point Power House.
- 1969 Cleveland, Ohio, a wind tunnel for NASA.
- There are many other NDT tests performed by
A.J. Mueller as a NDT Technician. The NDT
tests were radiography, magnetic particle,
and liquid penetrant testing of low temp.
pressure vessels.

Alfred J. Mueller

Job Experience

1969 - 1971

West Milton, N.Y., MARF Containment Vessel ASME Section III, Subsection B. Worked as a Level II NDT Technician performing NDT Test of radiography, magnetic particle, liquid penetrant testing and visual inspection. Calibrated equipment such as measuring tapes and KHO9 Mag. machines. Performed receipt inspection of material for the job, conducted weld wire control, supervised storage of construction material, and also checked fit-up and dimension.

1971 - 1973

West Milton, N.Y., MARF Containment Vessel ASME Section III, Subsection B. Worked as a Level III Supervisor. Qualified Navships 250-1500-1 to perform the duties of a NDT Supervisor in magnetic particle, liquid penetrant and visual inspector in April. Interpreted specifications and codes, designed particular test methods and techniques to be used, interpreted results and evaluated the results. Worked closely with the customer and Code Inspector to keep the job moving smoothly. Prepared for "N" Stamp Audit and was approved immediately. Also checked drawing distribution control, construction procedure sequences, receiving inspection of materials, storage of materials, fit-up of materials, welding, welder's qualifications, weld wire control and took care of deviation or variation reports to Project Manager and also minor discrepancies. Took care of calibration of tapes, KHO9 Mag. Machines, Y5 Yoke, some gauges, etc. Audited the performance of mechanical devices of the job. Audited Post Weld Heat Treatment to some inserts recorded as built dimensions. Audited pressure tests and leak detection tests of vessel. Took care of final documentation of the job.

March 1973 - July 1973

Shoreham, Long Island, N.Y.
Containment Vessel ASME Section III.
Performed the duties of Level III Supervisor of NDT in Magnetic Particle, Liquid Penetrant, Radiography, Leak Testing Methods and Visual and Dimensional Inspection Methods.

JOB EXPERIENCE

ALFRED J. MUELLER

August, 1973 to
December, 1974

NDE Specialist
Assistant Radiation Safety Officer
Vendor Surveillance
QA Audits
QA Surveys
Review Specifications
Write and approve NDE procedures

January, 1975 to
October, 1979

Division Field QA Manager
Assistant Radiation Safety Officer
Vendor Surveillance
QA Audits
QA Surveys
Review Specifications
Write and approve NDE procedures

Supervised work of Eastern Division
Field Quality Assurance Personnel.
Conducted and supervised Radiographic,
Magnetic Particle, Liquid Penetrant,
Leak Testing, Visual Dimensional
Inspection and documentation.

October, 1979 to
June, 1980

Division QA Manager
Radiation Safety Officer
QA Audits and Surveys
Review Specifications
Write and approve NDE procedures
Supervised work of Eastern Division and
Field Quality Assurance Personnel. Also
worked with Shop QA Manager in problem
areas and assisted when needed.
Conducted and supervised Radiographic,
Magnetic Particle, Liquid Penetrant,
Leak Testing, Visual Dimensional
Inspector and documentation.

June, 1980 to
October, 1981

Division Field QA Manager
Radiation Safety Officer
Vendor Surveillance
QA Audits and Surveys
Review Specifications
Write and approve NDE procedures
Supervised work of Eastern Division
Field Quality Assurance Personnel.
Conducted and supervised Radiographic,
Magnetic Particle, Liquid Penetrant,
Leak Testing, Visual Dimensional
Inspection and documentation.

JOB EXPERIENCE
Alfred J. Mueller

Page 2

October, 1981 to
July, 1985

Senior Welding & QA Manager
Performed duties as QA audits, QA surveys, review specifications, write and approve NDE procedures. Supervised work of Eastern Division and Field Quality Assurance personnel. Also worked with Shop QA Manager in problem areas and assisted when needed. Conducted and supervised radiographic, magnetic particle, liquid penetrant, leak testing, visual-dimensional inspector and documentation working on new training programs plus amending license. Applied for new license with the NRC. Handle audits with ASME, customers and NRC.

July 1985 to
Present

Manager of Safety & Quality Control.
Performs duties such as audits, surveys, review specifications, write and approve NDE procedures. Supervises work of the field operation and Field Quality Control personnel. Also works with construction Dept. in problem areas and assists when needed. Conducts and supervises radiographic, magnetic particle, liquid penetrant, leak testing, visual-dimensional inspector and documentation working on new training programs plus amending license. Applies for new licenses with states and the NRC. Handles audits with ASME, customers and NRC. Also handles the Safety program for Pittsburgh-Des Moines Corporation.

"OFFICIAL RECORD COPY"

EDUCATION

Michael H. Stiger

June 1962

Chartiers Valley High School
Pittsburgh, Pa.

March 1966 to
September 1966
In house training:

Pittsburgh-Des Moines Steel Co.
Neville Island, Pittsburgh, Pa.
The following disciplines:

RT - 40 hrs.
MT - 20 hrs.
PT - 20 hrs.
BT - 10 hrs.
VT - 40 hrs.
PCMT - 20 hrs.

October 1966 to
November 1966

Pittsburgh-Des Moines Steel Co.
Neville Island, Pittsburgh, Pa.
Reviewed procedures and techniques
for various jobsites.

RT - 5 hrs.
MT - 2 hrs.
PT - 2 hrs.
VT - 2 hrs.
PCMT - 3 hrs

July 1967

Pittsburgh-Des Moines Steel Co.
Sandwich, Mass.
Reviewed procedures and techniques
for jobsite.

RT - 2 hrs.
MT - 1 hr.
BT - 1 hr.
VT - 2 hrs.
HYDRO - 4 hrs.

September 1967

Pittsburgh-Des Moines Steel Co.
Danbury, Conn.
Reviewed procedures and specifications

RT - 2 hrs.
MT - 1 hr.
VT - 1 hr.
PT - 1 hr.

May 1968

Pittsburgh-Des Moines Steel Co.
At various jobsites, reviewed
procedures and specifications

RT - 4 hrs.
MT - 2 hrs.
BT - 2 hrs.
VT - 2 hrs.
PT - 2 hrs.
HYDRO - 4 hrs.

EDUCATION

Michael H. Stiger

April 1969	Magnaflux Corp. Chicago, Ill. Magnetic Particle and Liquid Penetrant Test Inspection MT - 15 hrs. PT - 15 hrs.
May 1969	Picker Industrial Corporation Cleveland, OH Industrial Isotope Radiography RT - 40hrs.
May 1969	Picker Industrial Corporation Cleveland, OH Industrial X-ray Radiography RT - 40 hrs.
July 1975	Krautkramer-Branson, Inc. Chicago, Ill. Basic Ultrasonic Testing UT - 40 hrs. Weld Inspection By Ultrasonic UT - 40 hrs.
June 1976	Pittsburgh-Des Moines Steel Co. General Dynamics Audio/Visual And PDM IN house course on Ultrasonic Testing UT - 120hrs.
July 1976	Pittsburgh-Des Moines Steel Co. General Dynamics Audio/Visual and PDM in house course on RT - 12 hrs. MT - 4 hrs. PT - 4 hrs.
October 1976 In house training:	Pittsburgh-Des Moines Steel Co. Audio/Visual course on Visual Weld Inspection VT - 10 hrs.
January 1977	Pittsburgh-Des Moines Steel Co. Magnetic Particle Test Inspection taught by Magnaflux MT - 16 hrs.

EDUCATION

Michael H. Stiger

March 1977

Pittsburgh-Des Moines Steel Co.
Wrote various NDT Procedures
for ASME SEC.III, VIII and
API G20 and API G50 Codes re-
quiring customer approval.

June 1977

DuPont Photo Technical Service
Wilmington, Del.
Advanced Art & Science Of
Processing Radiographic Film
40 hrs.

JOB EXPERIENCE

Michael H. Stiger

1962 - 1965

U. S. Army

March 1966 to
September 1966

Pittsburgh-Des Moines Steel Co.
Neville Island, Pittsburgh, Pa.
Completed on the job training
program in X-ray and Gamma-ray
radiography magnetic particle
and liquid penetrant inspection.
Worked as ASNDT Level I QA man
in radiography, magnetic particle,
and liquid penetrant inspection.

September 1966

Pittsburgh-Des Moines Steel Co.
Eastern Division Erection Dept.
Worked as an ASNDT Level II QA
man in X-ray and Gamma-ray
radiography, magnetic particle,
and liquid penetrant inspection.
Duties consisted of commuting be-
tween a great many construction
sites performing radiography,
magnetic particle and liquid
penetrant inspections in accord-
ance with a great many codes and
specifications governing the var-
ious structures. The various
construction projects worked are
too many to enumerate here, but
the following are note worthy
and represent a fair cross section:

1966

A. PITTSBURGH-DES MOINES STEEL CO.
Atlantic Refinery, Philadelphia, Pa.
Liquid propane spheres (2) ASME
VIII performed the following dis-
ciplines: RT, MT, PT, PCMT, VT
and HYDRO.

1967

B. PITTSBURGH-DES MOINES STEEL CO.
Union Carbide Co., Charleston, W. Va.
Liquid penetrant sphere (1) ASME
VIII performed the following dis-
ciplines: RT, MT, PT, PCMT, VT
and HYDRO.

1967

C. PITTSBURGH-DES MOINES STEEL CO.
Great Northern Paper Co.
Millinocket, Ma.
Digester (1) ASME VIII
Performed the following disciplines:
RT, MT, VT.

JOB EXPERIENCE

Michael H. Stiger

1967	D.	PITTSBURGH-DES MOINES STEEL CO. Tank Farm, Sandwich, Mass. Various sizes API 650 Performed the following disciplines: RT, MT, BT, VT and HYDRO.
1967	E.	PITTSBURGH-DES MOINES STEEL CO. Danbury, Conn. Vacuum space chambers (2) customer specs. Performed the following disciplines: RT, MT, VT, PT and PCMT.
1968	F.	PITTSBURGH-DES MOINES STEEL CO. Bethlehem Steel Corp., Beth., Pa. Basic Oxygen Furnace (2) ASME Sec. VIII performed the following disciplines: RT, MT, BT, VT .
1968	G.	PITTSBURGH-DES MOINES STEEL CO. Bechtel Corp. Peachbottom, Pa. Condensate storage tanks (2) ASME SECT. III Class B. Performed the following disciplines: RT, PT, BT, VT and HYDRO.
1968	H.	PITTSBURGH-DES MOINES STEEL CO. Stone & Webster, 9 Mi. Point, Oswego, N.Y. Condensate Tank ASME SEC. III CLB Performed the following disciplines: RT, PT, VT, BT, HYDRO.
1969	I.	PITTSBURGH-DES MOINES STEEL CO. United Eng. 3 Mi. Island, Pa. Nuclear Waste Tanks (4) ASME SECT. III Class B Performed the following disciplines: RT, PT, VT and PCMT.
1969	J.	PITTSBURGH-DES MOINES STEEL CO. TVA, Browns Ferry, Ala. Nuclear Containment Vessel (2) ASME SECT. III Performed the following disciplines: RT, MT, BT, and VT.
1970	K.	PITTSBURGH-DES MOINES STEEL CO. Fall River, Mass. 9% Ni LNG API 620/Q Performed the following disciplines: RT, PT, BT, and PCMT

JOB EXPERIENCE

Michael H. Stiger

1970	L.	PITTSBURGH-DES MOINES STEEL CO. Yankee Nuclear, VT Condensate Storage Tank ASME SECT. III Class B Performed the following disciplines: RT, PT, and BT.
1970	M.	PITTSBURGH-DES MOINES STEEL CO. NASA, Cleveland, OH ASME SECT. VIII and Customer Spec. Performed the following disciplines: RT, MT, VT, and PCMT.
1971-1973	N.	PITTSBURGH-DES MOINES STEEL CO. United Eng., 3 mi. Island, PA Nuclear Containment Vessel ASME SECT. III QA Manager and performed the following disciplines: RT, MT, PT, VT, BT, PCMT, HDLT, and Doct.
1973-1975	O.	PITTSBURGH-DES MOINES STEEL CO. Stone & Webster, Shoreham, LI, NY Nuclear Containment Vessel ASME SECT. III QA Manager and performed the following disciplines: RT, MT, PT, VT, PCMT, HDLT, Doct. and Stress relieving.
1975-1977	P.	PITTSBURGH-DES MOINES STEEL CO. Vendor Surveillance at Various Sites and Plants ASME SECT. VIII and III Performed BT at various LNG sites Performed UT, RT on various PDM Shop Fabrication Contracts Performed Pre-ASME Audits and Division Audit at various PDM job sites and plants.
Apr 1977-Oct. 1982	Q.	PITTSBURGH-DES MOINES STEEL CO. Bechtel Corporation, Hope Creek, NJ Nuclear Containment Vessel ASME SECT. III QA Manager and performed the following disciplines: RT, MT, PT, VT, UT, BT, PCMT, HDLT, and Doct.

JOB EXPERIENCE

Michael H. Stiger

Oct. 1982-July 1985

R.

Division Field QA Manager
Assistant Radiation Safety Officer
Vendor Surveillance
QA Audits
QA Surveys
Review Specification
Write and approve NDE procedure

Supervised work of Eastern Division
Field Quality Assurance Personnel.
Conducted and supervised Radiographic,
Magnetic Particle, Liquid Penetrant,
Leak Testing, Visual Dimensional
Inspection and Documentation.

July 1985-Present

TRI STATE INSPECTION & CONSULTANTS
NDE Technician for all discipline
of NDE. Has worked numerous jobs
which would take many sheets to list.

ITEM 8 - Training Provided to Other Users:

TSI&C's Radiation Safety training is covered by the following procedures, (which are attached):

1. RST - Radiation Safety Training - General
2. RSTP-1 - Radiation Safety Training - Radiographer's Assistant; and,
3. RSTP-2 - Radiation Safety Training - Radiographer.

These procedures outline the training and instructions to be given to prospective Radiographers' Assistants and Radiographers and the length of time to be spent on each topic. Copies of examinations and the correct answers are also included, as well as the passing grade. A description of the field (practical) examination is included in procedure RSTP-2. The requirements for evaluating individuals with previous experience is included in the General Radiation Safety Training Procedure, RST.

The identification and specific information of individuals who will instruct and train prospective radiographers and radiographers' assistants is given in previous Item 7 under the designation of the Radiation Safety Officer (RSO) and Assistant Radiation Safety Officer (ARSO).