

71-0569

NRC FORM 313
1988
10 CFR 30.32, 33,
34, 35 and 40

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED BY OMB
3180-0120
Expires 6-30-90

APPLICATION FOR MATERIAL LICENSE

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

APPLICATIONS FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

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

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

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION I
NUCLEAR MATERIALS SAFETY SECTION
45 ALLENDALE ROAD
KING OF PRUSSIA, PA 19602

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION II
NUCLEAR MATERIALS SAFETY SECTION
101 MARIETTA STREET, SUITE 2900
ATLANTA, GA 30321

IF YOU ARE LOCATED IN:

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

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

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

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

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION V
NUCLEAR MATERIALS SAFETY SECTION
1460 MARIA LANE, SUITE 200
WALNUT CREEK, CA 94606

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):	2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code):
<input type="checkbox"/> A. NEW LICENSE <input checked="" type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER <input type="checkbox"/> C. RENEWAL OF LICENSE NUMBER <u>#12-21101-01</u>	American Testing & Inspection, Inc. 1904 Cherry Hill Road Joliet, Ill. 60433 (815) 726-3900

3. ADDRESSES WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED:

Same as #2

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION: **John E. Turner**

TELEPHONE NUMBER: **(815) 726-3980**

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 see attached	6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED. see attached
7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE see attached	8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS see attached
9. FACILITIES AND EQUIPMENT. see attached	10. RADIATION SAFETY PROGRAM see attached
11. WASTE MANAGEMENT see attached	12. LICENSEE FEES (See 10 CFR 170 and Section 170.31) FEE CATEGORY see attached AMOUNT ENCLOSED \$ 180.00

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	TYPED/PRINTED NAME	TITLE	DATE
<i>Ronald W. Preston</i>	Ronald W. Preston	President	1-11-91

FOR NRC USE ONLY			
TYPE OF FEE Ren	FEE LOG Jan-3-91/10B	FEE CATEGORY	COMMENTS
AMOUNT RECEIVED \$180	CHECK NUMBER 4533		

APPROVED BY: *M. Hussain* 9102040307 910111
PDR ADOCK 07100569
C PDR

DATE: **JAN 25 1991**

REGION III

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 30, 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

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

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE \$300

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PERMIT No. 582

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RADIOACTIVE MATERIAL AND PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED

Element & Mass Number	Chemical and/or Physical Form	Maximum Number of Millicuries of Each	Describe Purpose of Use
Iridium-192	Tech Ops Model A-424-9 or Gamma Industries Model T-3-T sealed sources	No single source to exceed 100 curies	For use in Tech Ops Model 660 exposure devices for industrial radiography and in Technical Operations Model 650 or Gamma Industries Model C-10 source changers for storage and replacement of sources
Iridium-192	Gamma Industries Model A-2-A sealed sources	No single source to exceed 100 curies	For use in Gamma Industries Century SA exposure devices for industrial radiography and in Gamma Industries Model C-10 source changers for storage and replacement of sources
Cobalt-60	Tech Ops Model A-424-18 sealed sources	No single source to exceed 35 curies	For use in Tech Ops Model 741 exposure devices for industrial radiography
Cobalt-60	Gamma Industries Model A-8-A sealed sources	No single source to exceed 10 curies	For use in Gamma Industries Gammatron 100 exposure devices for industrial radiography

For use at temporary job sites anywhere in the United States, as recognized by reciprocity. For use at temporary job sites in the State of Illinois. When not in use, the licensed material will be stored at 1904 Cherry Hill Road, Joliet, Illinois.

LEAK TESTING OF SEALED SOURCES

Leak testing of sealed sources will be performed on a semi-annual frequency. We will use the leak test services of Stan A. Huber Consultants, Inc., New Lenox, Illinois, (License #IL-00317-01), using their Model LT-2 Leak Test Kit for Sealed Sources, or other firm specifically authorized by the Illinois Department of Nuclear Safety to perform these tests.

SEALED SOURCES

We confirm that sealed sources will be stored in their original lead shielded containers. We confirm the Illinois Department of Nuclear Safety will be notified in the event of any loss theft, damage, or fire affecting radioactive material.

INSTRUCTION OF RADIOGRAPHERS

Training of Radiographers and Assistant Radiographers will be provided by Stan A. Huber Consultants, Inc. (SAHCI), and Ron Preston, of American Testing and Inspection, Inc. (AT&I). We confirm the subjects listed in Appendix A, Section 350 of the Illinois Statutes and Regulations will be covered. See attached training program.

This training program is for individuals with no previous radiography experience. Training for those individuals with experience will be customized to suit each individuals.

We may also use Gamma Industries one week training course to meet IDNS requirements for initial training.

SAHCI - American Testing and Inspection, Inc.

INDUSTRIAL RADIOGRAPHY TRAINING PROGRAM

Day One

- I. INTRODUCTION (Est. Time = 15 min)
- A. Names of Instructors and Their Backgrounds
 - B. Objectives of the Training Program
 - C. Overview of Course Outline
- II. TERMINOLOGY and DEFINITIONS (Est. Time = 45 min)
- A. Basic Atomic Structure
 - B. Types of Radioactive Materials (alpha, beta, gamma) and Their Characteristic Properties
 - C. Glossary of Terms and Definitions (highlight most important)
- III. "THE STORY OF RADIATION" (videotape) (Est. Time = 3 hrs)
- Presents the principle concepts of radiation and radioactivity; natural background radiation; methods of detecting radiation; biological effects of radiation and occupational risks compared to other risks; regulatory agencies and requirements; disposal methods; and consumer products that emit radiation. (Tests for eight (8) segments).
- IV. FUNDAMENTALS OF RADIATION SAFETY (Est. Time = 4 or 5 hrs)
- A. Characteristics of Gamma Radiation (half-lives, energies, penetration, etc.)
 - B. Units of Radiation Dose (Rem and mRem) and Quantity of Radioactivity (Curie and Millicurie)
 - C. Hazards of Exposure to Radiation (Radiation Biology and NRC Reg. Guide References)
 - D. Levels of Radiation from Licensed Materials
 - E. Methods of Controlling Radiation Dose
 - 1. Working Time (Examples with Calculations)
 - 2. Working Distances (Inverse Square Law, Examples with Calculations)
 - 3. Shielding (Half-Value Layer, Examples with Calculations)
 - F. Exam

Day Two

V. RADIATION DETECTION INSTRUMENTATION TO BE USED (Est. Time = 4 hrs)

- A. Use of Radiation Survey Instruments
 - 1. Operation
 - 2. Calibration and Quality Control
 - 3. Limitations and Proper Handling
- B. Survey Techniques
- C. Use of Personnel Monitoring Equipment
 - 1. Film Badges and Thermoluminescent Dosimeters (TLD's)
 - 2. Pocket Dosimeters
 - 3. Proper Handling, Controls, and Records
- D. Exam

VI. REGULATIONS and LICENSE CONDITIONS (Est. Time = 4 to 5 hrs)

- A. NRC Title 10 CFR Parts 19, 20, 34, 71, and 170 and/or Equivalent Agreement State Regulations (review each part)
- B. Maximum Permissible Dose (MPD) and Maximum Permissible Concentration (MPC)
- C. NRC Regulatory Guide, "Instruction Concerning Risk from Occupational Radiation Exposure", with references to other NRC Reference Guides
- D. The "ALARA" Philosophy
- E. Components of an NRC or Agreement State License Application and Amendments
- F. Conditions of Licenses (Calibrations, Leak Tests, Training, Radiation Safety Program, etc.) - examine sample license
- G. Inspection Preparedness and Suggested Record Systems (Radiation Safety Officer Responsibilities)
- H. Department of Transportation (DOT) and NRC Shipping and Receiving
- I. Overview of Other Regulatory Agencies (DOT, EPA, OSHA, Local and State Health Departments)

Day Three

VII. RADIOGRAPHIC EQUIPMENT TO BE USED (Est. Time = 3 to 4 hrs)

- A. Remote Handling Equipment
- B. Radiographic Exposure Devices
- C. Storage Containers
- D. Security Procedures
- E. Source Exchange Procedures
- F. Preparation for Field-Lab Training

VIII. LAB EXERCISES (Est. Time = 5 to 6 hrs)

Day Four

- IX. LAB EXERCISES (cont'd) (Est. Time = 4 to 5 hrs)
- X. INSPECTION and MAINTENANCE PERFORMED BY THE RADIOGRAPHERS (Est. Time = 4 hrs)
- A. Device Inspections and Maintenance
 - B. Facility Postings and Notices
 - C. Scheduling Required Tasks
 - D. Radiation Protection Program Audits
 - E. Emergency Preparedness
 - F. Reporting of Incidents, Records
 - G. Guidance and Consultation (R.S.O.; Consultants; Regulatory Agencies)

Day Five

- XI. CASE HISTORIES OF RADIOGRAPHY ACCIDENTS (Est. Time = 4 to 6 hrs)
- XII. REVIEW OF PRIMARY TOPICS OF TRAINING PROGRAM and INDIVIDUAL CASE PROBLEMS OR CONCERNS
- XIII. FINAL EXAM
- XIV. REVIEW FINAL EXAM
- XV. PROGRAM EVALUATION REPORTS (Attendees rate course and make suggestions or comments)

Time Summary

Day One, Estimated Time = 8 to 9 Hours
Day Two, Estimated Time = 8 to 9 Hours
Day Three, Estimated Time = 8 to 10 Hours
Day Four, Estimated Time = 8 to 9 Hours
Day Five, Estimated Time = 4 to 6 Hours

36 to 43 Hours

(Approximate 40 hours on average)

REF: IDNS SECTION 350.2010

RADIOGRAPHER TRAINING

American Testing and Inspection, Inc., shall not permit any individual to act as a radiographer, as defined in this Part, until such individual:

- 1) has been instructed in the subjects outlined in Appendix A of this Part;
- 2) has received copies of and instruction in the regulations contained in this Part and in 32 Ill. Adm. Code 340 and 400, a copy of the license or certificate of registration issued to the licensee or registrant and the licensee's or registrant's operating and emergency procedures;
- 3) has been instructed in the use of and has demonstrated, to the satisfaction of the licensee or registrant, competence in the use of the licensee's or registrant's sources of radiation, radiographic exposure devices, related handling tools, and radiation survey instruments;
- 4) has demonstrated, to the licensee or registrant, an understanding of the instructions in Section 350.2010 (a) as evidence by having successfully completed a written test and a field examination on subjects relevant to the position.

REF: IDNS SECTION 350.2010

ASSISTANT RADIOGRAPHER TRAINING

American Testing and Inspection, Inc., shall not permit any individual to act as a radiographer's assistant, as defined in this Part, until such individual:

- 1) has received copies of and instruction in the licensee's or registrant's operating and emergency procedures;
- 2) has been instructed in the use of and has demonstrated, to the satisfaction of the licensee or registrant, that when the individual is under the personal supervision of the radiographer, the individual is competent to use the sources of radiation, radiographic exposure devices, related handling tools, and radiation survey instruments which will be used in the position;
- 3) has demonstrated, to the licensee or registrant, an understanding of the instructions in Section 350.2010 (b) by having successfully completed a written or oral test and a field examination on subjects relevant to the position.

Records of the above training, including copies of written tests and dates of oral tests and field examination, shall be maintained for inspection by the Department for 3 years following termination of employment.

SUPERIOR INDUSTRIAL X-RAY COMPANY

PERSONNEL CERTIFICATION

INDIVIDUAL NDE WORK EXPERIENCE RECORD

1979

Name	RONALD W. PRESTON
Certification	LEVEL II

DATE OF	CUSTOMER	PROCEDURE OR SPECIFICATION UTILIZED	DESCRIPTION OF ITEM EXAMINED	HOURS EACH METHOD					
				FT	UT	RT	MT	OTHER	
10/29	Universal Welding CECO (STATE LINE)	ASME VIII ASME 1	welded pipe fossil sta.		8			15	1
10/29	Union Oil Phillips Pipeline	B 31.3 API-1104	welded pipe welded pipe				8	5	
11/5	WEBCO TANK NI-GAS	API-650 API-1104	storage tank welded pipe			22		5	2
11/5	BACON TANK	ASME VIII	press. vess.				8		
11/12	WEBCO TANK Superior X-Ray	API-650 ASME III	storage tank S.I.X.		16		22		2
11/19	Badger Pipeline A.A. Fabricators	API-1104 ASME VIII	welded pipe press. vess.				15		1
11/19	Superior X-Ray	S.I.X. UT 1			10				
11/26	Peoples Gas NI-GAS	API-1104 API-1104	welded pipe welded pipe				15	8	1
11/26	Superior X-Ray	S.I.X UT 1			16				
12/3	NILES MFG. NI-GAS	B31.1 B31.7 API-1104	welded pipe welded pipe				30	8	2
12/10	NILES MFG. NI-GAS	A31.1 B31.7 API-1104	welded pipe welded pipe				15	22	1 2
12/17	NI-GAS Point Beach (Wis.E)	API-1104 ASME III	welded pipe nuclear Sta		16		15		1
12/17	CECO (ZION)	B31.1 ASME III	nucl. sta.				18		2
11/24	CECO (ZION)	B31.1 ASME III	nuclear sta.	10			52	10	
TOTAL HOURS.				10	66	297	10		

SUPERIOR INDUSTRIAL X-RAY COMPANY

PERSONNEL CERTIFICATION

INDIVIDUAL NDE WORK EXPERIENCE RECORD

1979
YES

Name RONALD W. PRESTON

Certification LEVEL II

WEEK OF	CUSTOMER	PROCEDURE OR SPECIFICATION UTILIZED	DESCRIPTION OF ITEM EXAMINED	HOURS EACH METHOD							
				PT	UT	RT	MT	ET	VT	OTHER	
7/30	CECO (Dresden)	ASME III	nuclear Sta.		24						
7/30	CECO (Dresden)	ASME III	nuclear sta.		16						
7/30	NI-GAS	API-1104	welded pipe			20				1	
8/13	CECO (Dresden)	ASME III	nuclear sta.		16						
8/13	NI-GAS	API-1104	welded pipe			8					
8/13	J.W. Allen	ASME VIII	welded pipe					8			
8/20	Winthrop Const.	ASME VIII	storage tank			9					
8/20	Marathon Pipeline	API-1104	welded pipe			32				2	
8/27	Lakehead Pipeline	API-1104	welded pipe			8					
9/3	Lockport Mfg.	ASME VIII	press.vess.			15				1	
9/3	N.G.P.L.	API-1104	welded pipe			20				1	
9/10	Lakehead Pipeline	API-1104	welded pipe			8					
9/10	N.G.P.L.	API-1104	welded pipe			8					
9/17	Point Beach (Wisc.)	ASME III	nuclear sta.	20		20	8			2	
9/24	Point Beach (Wisc.)	ASME III	nuclear sta.	10		10	8			2	
9/24	Bacon Tank	B31.1 ASMEVIII	press.vess.			8					
10/1	N.G.P.L.	API-1104	welded pipe			15				1	
10/1	Collins (P.G.)	B31.1 ASMEVIII	welded pipe			8					
10/8	Healy & Ball	ASME VIII	welded pipe			8					
10/8	Point Beach (Wisc.)	ASME III	nuclear sta.	10		10	10			2	
10/15	Point Beach (Wisc.)	ASME III	nuclear sta.	20		20	8			2	
10/22	Point Beach (Wisc.)	ASME III	nuclear sta.	20		20	8			2	
10/29	CECO (state Line)	ASME I	welded pipe			15				1	
10/29	Phillips Pipeline	API-1104	welded pipe			8					
TOTAL HOURS				80	56	272	42			17	

SUPERIOR INDUSTRIAL X-RAY COMPANY

PERSONNEL CERTIFICATION

INDIVIDUAL NDE WORK EXPERIENCE RECORD

1979
ye

Name	RONALD W. PRESTON
Certification	LEVEL II

WEEK OF	CUSTOMER	PROCEDURE OR SPECIFICATION UTILIZED	DESCRIPTION OF ITEM EXAMINED	HOURS EACH METHOD							
				PT	UT	RT	MT	ET	VT	OTHER	
4/16	MARATHON PIPELINE Pullman Standard	API-1104B31.1 AWS-D.1.1	weld.pipe&ref. weld.structure		4	4					
4/23	Vacation										
4/30	Pullman Standard NI-GAS	AWS-D1.1 API-1104	weld.structure welded pipe		4	4					1
5/7	WORTH ENG. NI-GAS	ASTM-E-94 API-1104	heavy cast. welded pipe			7					1
5/14	S.I.X.	S.I.X. UT 1	weld pipe &Plt.	40							
5/21	NI-GAS	API-1104	welded pipe			7					1
5/28	HAMLER BOILER JAMESON ELEC.	ASME VIII ASME VIII	welded pipe welded pipe		7						1
6/4	NI-GAS Phillips Pipeline	API-1104 API-1104	welded pipe welded pipe			15					1
6/11	Phillips Pipeline	API-1104	welded pipe			15					1
6/18	CECO (ZION) CECO (Dresden)	PW51B31.1ASME3 ASMEI-III-VIII	nuclear sta Nucl. sta.	7		7					1
6/25	Point Beach (Wis.E.) Lakehead Oil	ASME III API-1104	nuclear sta. welded pipe			35					5
7/2	Two Creeks	ASME III	nuclear sta.	42		36					6
7/9	Two Creeks	ASME III	nuclear sta.	42		36					6
7/16	Two Creeks	ASME III	nuclear sta.	30		26					4
7/23	Two Creeks Prefab Pipe	ASME III API-1104	nuclear sta. welded pipe	12		10					2
				TOTAL HOURS	103	62	320				43

SUPERIOR INDUSTRIAL X-RAY COMPANY

PERSONNEL CERTIFICATION

INDIVIDUAL NDE WORK EXPERIENCE RECORD

1979
year

Name	RONALD W. PRESTON
Certification	LEVEL II

WEEK OF	CUSTOMER	PROCEDURE OR SPECIFICATION UTILIZED	DESCRIPTION OF ITEM EXAMINED	HOURS EACH METHOD						
				PT	UT	RT	MT	ET	VT	OTHER
1/2	Prairie Tank	API-650	welded pipe			15				
1/8	Worth Engineering	ASTM E-94	heavy cast.			8				
1/15	Shop									
1/22	Shop									
1/29	Winthrop Const.	API-1104	welded pipe			8				
2/5	Shop									
2/12	Marathon Pipeline Natural Gas Pipe	API-1104B31.3 API-1104	welded pipe welded pipe			23 8				1
2/19	NI-GAS	API-1104	welded pipe			8				
2/26	Vacation									
3/5	Shop									
3/12	Shop									
3/19	O'Brien Bros.	API-1104	welded pipe			24				
3/26	Natural Gas Pipe Fahralloy	API-1104 ASTM E-94	welded pipe heavy cast.			8 8				
4/2	Admiral Steel Hydro-Carbon	AWS-D1.1 API-1104ASMEVIII	steel beam weld.p&ref.			8 16				
4/9	Hydro Carbon Natural Gas	" " " " " API-1104	" " " " " welded pipe			8 8				
TOTAL HOURS						121				1

SUPERIOR INDUSTRIAL X-RAY COMPANY

PERSONNEL CERTIFICATION

INDIVIDUAL NDE WORK EXPERIENCE RECORD

1978

Year

Name RONALD W. PRESTON

Certification LEVEL II

WEEK OF	CUSTOMER	PROCEDURE OR SPECIFICATION UTILIZED	DESCRIPTION OF ITEM EXAMINED	HOURS EACH METHOD								
				PT	UT	RT	MT	ET	VT	OTH		
1/2	NI-GAS (S.N.G.)	API-1104	welded pipe			41 1/2						
1/9	NI-GAS (S.N.G.)	API-1104	welded pipe			40						
1/16	NI-GAS (S.N.G.)	API-1104	welded pipe			40						
1/23	NI-GAS (S.N.G.)	API-1104	welded pipe			40						
1/30	NI-GAS (S.N.G.)	API-1104	welded pipe			51						
2/6	NI-GAS	API-1104	welded pipe			50						
2/13	NI-GAS	API-1104	welded pipe			40						
2/20	NI-GAS	API-1104	welded pipe			32						
2/27	NI-GAS	API-1104	welded pipe			40						
3/6	NI-GAS	API-1104	welded pipe			50						
3/13	NI-GAS	API-1104	welded pipe			32						
3/20	NI-GAS	API-1104	welded pipe			40						
3/27	NI-GAS	API-1104	welded pipe			40						
TOTAL HOURS.						538 1/2						



SUPERIOR INDUSTRIAL X-RAY COMPANY

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1978
Year

Name	RONALD PRESTON
Certification	LEVEL II

DATE OF	CUSTOMER	PROCEDURE OR SPECIFICATION UTILIZED	DESCRIPTION OF ITEM EXAMINED	HOURS EACH METHOD						
				PT	UT	RT	MT	ET	VT	OTHER
4/3	NI-GAS	API-1104	welded pipe			30			10	
4/10	NI-GAS	API-1104	welded pipe			30			10	
4/17	NI-GAS	API-1104	welded pipe			30			10	
4/24	NI-GAS	API-1104	welded pipe			30			10	
5	NATURAL GAS	API-1104	welded pipe			8				
	NI-GAS	API-1104	welded pipe			14			2	
5/8	SUPERIOR PIPE	API-1104	welded pipe			20			4	
5/15	SUPERIOR PIPE	API-1104	welded pipe			16				
5/22	Natural Gas Pipe	API-1104	welded pipe			7			1	
	NI-GAS	API-1104	welded pipe			7			1	
5/29	NI-GAS	API-1104	welded pipe			28			4	
6/5	Vacation									
6/12	NI-GAS	API-1104	welded pipe			11			1	
	LOCKPORT MFG.	ASME VIII	pressure ves.			11			1	
6/19	COLLINS (P.G.)	ASMEI-VIIIIB31.1	welded p.			14			2	
	NI-GAS	API-1104	welded pipe			14			2	
6/26	NI-GAS	API-1104	welded pipe			7			1	
	COLLINS WESTINGHS.	ASMEI-VIIIIB31.1	fossil st.			14			2	
7/3	NI-GAS	API-1104	welded pipe			7			1	
	COLLINS(WEDTINGHSE)	ASMEI-VIIIIB31.1	fossil st.			14			2	
7/10	GENERAL ELECTRIC	ASMEI-III-VIII	steel cast.		50	50				
TOTAL HOURS..					50	362			64	

SUPERIOR INDUSTRIAL X-RAY COMPANY

PERSONNEL CERTIFICATION

INDIVIDUAL NDE WORK EXPERIENCE RECORD

1978
YES

Name	RONALD W. PRESTON
Certification	LEVEL II

WEEK OF	CUSTOMER	PROCEDURE OR SPECIFICATION UTILIZED	DESCRIPTION OF ITEM EXAMINED	HOURS EACH METHOD							
				PT	LT	RT	MT	ET	VT	OTHER	
7/17	General Electric	ASMEI-III-VIII	steel cast.		50		50				
7/24	General Electric	ASMEI-III-VIII	steel cast.		50		50				
7/31	NI-GAS	API-1104	welded pipe				15		1		
8/7	Whiting Corporation Mechanical Inc.	AWS D1.1 API-1104 B31.3	weld.girders prefab pipe				8				
8/14	Natural Gas Pipe Marathon Pipeline	API-1104 API-1104	welded pipe welded pipe				22		2		
8/21	Marathon Pipeline	API-1104	welded pipe				38		2		
8/28	Marathon Pipeline	API-1104	welded pipe				38		2		
9/4	Phillips Pipeline NI-GAS	API-1104 API-1104	welded pipe welded pipe				7		1		
9/11	Badger Pipeline NI-GAS	API-1104 API-1104	welded pipe welded pipe				15		1		
9/18	Natural Gas Pipeline Prairie Tank	API-1104 API-650	welded pipe storage tank				7		1		
9/25	Natural Gas Pipeline Bacon Tank	API-1104 ASME VIII	welded pipe press.vessel				30		2		
10/2	NI-GAS	API-1104	welded pipe				37		3		
10/9	NI-GAS	API-1104	welded pipe				37		3		
10/16	NI-GAS	API-1104	welded pipe				37		3		
10/23	NI-GAS	API-1104	welded pipe				25		2		
TOTAL HOURS					100		496		28		

SUPERIOR INDUSTRIAL X-RAY COMPANY

PERSONNEL CERTIFICATION

INDIVIDUAL NDE WORK EXPERIENCE RECORD

1978

Y

Name	Ronald W. Preston
Certification	Level 11

WEEK OF	CUSTOMER	PROCEDURE OR SPECIFICATION UTILIZED	DESCRIPTION OF ITEM EXAMINED	HOURS EACH METHOD							
				PT	UT	RT	MT	ET	VT	OTHE	
10/30	NI-GAS	API-1104	welded pipe			38				2	
11/6	35 Buckeye Pipeline	API-1104	welded pipe			38				2	
11/13	Bloomer-Fiske	API-1104	welded pipe			24					
	Natural Gas Pipe	MIL-R-11470	weld armor			8					
		API-1104	welded pipe			8					
11/20	Buckeye Pipeline	API-1104	welded pipe			15				1	
	Pre Fabricated	API-1104	welded pipe			8					
11/27	NI-GAS	API-1104	welded pipe			15				1	
12/4	Buckeye Pipeline	API-1104	welded pipe			38				2	
12/11	Webco Tank	API-650	storage tank			8					
	Prairie Tank	API-650	storage tank			8					
12/18	NI-GAS	API-1104	welded pipe			15				1	
	Badger Pipeline	API-1104	welded pipe			8					
12/26	Natural Gas Pipeline	API-1104	welded pipe			8					
TOTAL HOURS						231				9	

SUPERIOR INDUSTRIAL X-RAY CO.

AC 312 389-510

126TH & HOMAN AVE., BLUE ISLAND, ILLINOIS

INDIVIDUAL NDE WORK EXPERIENCE RECORD

1977
REG

Name Ronald W Preston

Certification Level II

Week of	Customer	Procedure or Specification Utilized	Description of Item Examined	Hours Examined Method						
				PT	UT	RT	MT	ST	VT	
1/2	Soil Engineering Lockport Mfg.	B 31.1 ASME I-VIII	Welded pipe Pressure vessel			24				
1/9	Mechanical Inc. Lockport Mfg.	B 31.1 ASME I-VIII	Welded pipe Pressure vessel			38				
1/16	Soil Eng. Ni-Gas	B 31.1 API - 1104	Welded pipe Welded pipe			12				
1/23	Mechanical Inc. Lockport Mfg.	API-1104-B31.3 ASME I-VIII	Welded pipe&ref. Pressure vessel			12				
1/30	Niles Mfg. Amoco Pipeline	API 1104 API 1104-B31.8	Welded pipe Welded pipe&ref.			16				
2/6	Ni-Gas	API 1104	Welded pipe			49				
2/13	Ni-Gas	API 1104	Welded pipe			53				
2/20	Ni-Gas Ceco (Zion)	API 1104 ASME I-III	Welded pipe Nuclear station			33				
2/27	Ceco (Zion) Lockport Mfg.	ASME I-III ASME I-VIII	Nuclear station Pressure vessel			24				
3/6	Ceco (Union)	ASME I-III	Nuclear station			53				
3/13	Ceco (Zion) Ceco (Will Co)	ASME I-III U W 51	Nuclear station Welded pipe			40				
3/20	Niles Mfg.	API 1104	Welded pipe			40				
3/27	Niles Mfg.	API 1104	Welded pipe			40				
4/3	vacation									
4/10	vacation									
						534				

SUPERIOR INDUSTRIAL X-RAY CO.

AC 312 389-5100

126TH & HOMAN AVE., BLUE ISLAND, ILLINOIS

INDIVIDUAL WORK EXPERIENCE RECORD

1977
YEAR

Name: Ronald W. Preston

Certification Level: II

Date	Customer	Procedure or Specification Utilized	Description of Item Examined	Hours Each Method								
				PT	UT	RT	MT	ET	VT	OT		
4/17	vacation											
4/25	Amoco Pipeline Du Well Mfg.	API 1104 B31.1 ASME VIII	Welded pipe&ref. Pressure vessel			8						
5/2	Ceco (Sta.9) Niles Mfg.	ASMEI-III-VIII B 31.1	Nuclear station Welded pipe			8						
5/9	Niles Mfg.	B 31.1	Welded pipe			40						
5/16	Niles Mfg. All Metals	B 31.1 ASME VIII	Welded pipe Pressure vessel			32						
5/23	Blaw Knox	MIL-R-11470	Heavy casting			48						
5/30	NI-GAS Blocmer Fiske	API 1104 MIL-R-11470	Welded pipe Welded Armor Plate			24						
6/6	Ceco (Zion) NI-GAS	ASME I-III API 1104	Nuclear station Welded pipe			8						
6/13	NI-GAS Collins(Getschow)	API 1104 ASMEI-VIIIIB31.1	Welded pipe Welded pipe			16						
6/20	Niles Mfg.	B31.1	Welded pipe			40						
6/27	Natural Gas Vacudyne	API 1104 ASME I VIII	Welded pipe Pressure vessel			16						
7/4	Niles Mfg.	API 1104	Welded pipe			24						
7/11	Niles Mfg. Lockport Mfg.	API 1104 ASME I-VIII	Welded pipe Pressure vessel			16						
7/19	Niles Mfg. Ceco (Dresden)	API 1104 ASMEI-III-VIII	Welded pipe Nuclear station	14		16						
7/25	Graver Tank Midland Pipe	ASME VIII B 31.1	Pressure vessel Welded pipe			8						
				14		457						

SUPERIOR INDUSTRIAL X-RAY CO.

AC 312 389-51

126TH & HOMAN AVE. BLUE ISLAND, ILLINO

INDIVIDUAL NDE WORK EXPERIENCE RECORD

1977
TEXT

NAME Ronald Preston

Certification II

Week of	Customer	Procedure or Specification Utilized	Description of Item Examined	Hours Each Method					
				PI	UT	RT	VT	ST	VI
8/1	Ceco (Zion) All Metal	ASME I-III	Nuclear station						21
		ASME VIII	Pressure vessel						16
8/8	Natural Gas NI-GAS	API II04	Welded pipe						8
		API II04	Welded pipe						32
8/15	Amoco NI-GAS	API II04 B31.1	Welded pipe & Ref.						24
		API II04	Welded pipe						16
8/22	NI-GAS Lockport Mfg.	API II04	Welded pipe						32
		ASME I-VIII	Pressure vessel						8
8/29	NI-GAS Natural Gas	API II04	Welded pipe						24
		API II04	Welded pipe						16
9/5	NI-GAS Lockport Mfg.	API II04	Welded pipe						24
		ASME I-VIII	Pressure vessel						8
9/12	Lockport Mfg. Natural Gas	ASME I-VIII	Pressure vessel						8
		API II04	Welded pipe						16
9/19	Niles Mfg. Ceco (Zion)	API II04	Welded pipe						24
		ASME I-III	Nuclear station						16
9/26	Ceco (Zion) Nat. Gas Pipeline	ASME I-III	Nuclear station						16
		API II04	Welded pipe						24
10/3	Natural Gas Pipe Lockport Mfg.	API II04	Welded pipe						16
		ASME I-VIII	Pressure vessel						8
10/10	Lockport Mfg. NI-GAS	ASME I-VIII	Pressure vessel						8
		API II04	Welded pipe						44
10/17	NI-GAS	API II04	Welded pipe						47
10/24	NI-GAS	API II04	Welded pipe						47
10/31	NI-GAS All Metal	API II04	Welded pipe						33
		ASME VIII	Pressure vessel						8
11/7	NI-GAS	API II04	Welded pipe						47

SUPERIOR INDUSTRIAL X-RAY CO.

AC 312 389-510X

126TH & HOMAN AVE., BLUE ISLAND, ILLINOIS

INDIVIDUAL WDE WORK EXPERIENCE RECORD

1976
YEAR

Name Ron Preston

Certification Level II

Week of	Customer	Procedure or Specification Utilized	Description of Item Examined	Hours Each Method						
				PT	UT	RT	MT	ET	VT	
1/4	Phillips Gets. Ceco (Zion)	B31.1 ASMEIII ASME I-III	Welded pipe Nuclear sta.	4		8		4		
1/11	Ceco (Zion) Phillips Gets.	ASME I-III B31.1 ASME III	Nuclear sta. Welded pipe	4		8		4		
1/18	Ceco (Zion)	ASME I-III	Nuclear sta.	8		32		8		
1/25	Ceco (Zion)	ASME I-III	Nuclear sta.	8		40		8		
2/1	Prefab Pipe Ceco(Dresden)	B 31.1 &.3 ASMEI-III-VIII	Prefab pipe Nuclear sta.	16		8		32		
2/8	Ceco(Dresden)	ASMEI-III-VIII	Nuclear sta.	16		40				
2/15	NI-GAS Ceco(Dresden)	API 1104 ASMEI-III-VIII	Welded pipe Nuclear sta.	8		16		24		
2/22	NI-GAS	API .1104	Welded pipe			40				
2/29	NI-GAS	API 1104	Welded pipe			40				
3/7	NI-GAS	API 1104	Welded pipe			40				
3/14	Ceco (Zion) Blaw Knox	ASME I-III MIL-R-11470	Nuclear sta. Heavy Casting	4		8		4		
3/21	Blaw Knox Prefab Pipe	MIL-R-11470 ASME VIII	Heavy casting Prefab pipe			16		24		
3/28	Blaw Knox Ceco(Dresden)	MIL-R-11470 ASMEI-III-VIII	Heavy casting Nuclear sta.	12		16		24		

SUPERIOR INDUSTRIAL X-RAY CO.

126TH & HOMAN AVE., BLUE ISLAND, ILLINOIS

INDIVIDUAL NDE WORK EXPERIENCE RECORD

~~1976~~
YEAR

Name Ronald Preston

Certification Level II

Date	Customer	Procedure or Specification Utilized	Description of Item Examined	Hours Exam Method						
				PT	UT	RT	MT	ET	VT	OT
4/4	Prefab Pipe Blaw Knox	ASME VIII-B31.L.3 MIL-R-11470	Welded pipe Heavy casting			32 16				
4/11	Ceco (Zion) Blaw Knox	ASME I-III-VIII MIL-R-11470	Nuclear station Heavy casting	12		20 8	13			
4/18	Ceco (ion) Ni-Gas	ASME I-III-VIII API-1104	Nuclear station Welded pipe	3		10 8	3			
4/25	Blaw Knox Ceco (Dresden)	MIL-R-11470 ASME I-III-VIII	Heavy casting Nuclear station	24		8 24				
5/2	Blaw Knox Ceco (Dresden)	MIL-R-11470 ASME I-III-VIII	Heavy casting Nuclear station	20		24 20				
5/9	Getschow(Collins) Ceco (Zion)	USAS B31.1 ASME I-III-VIII	Welded pipe Nuclear station	4		16 8	4			
5/16	Getschow(Collins) Badger Pipeline	USAS B31.1 API-1104	Welded pipe Welded pipe			8 8				
5/23	Blaw Knox Ni-Gas	MIL-R-11470 API-1104	Heavy casting Welded pipe			19 32				
5/30	Ni-Gas Goodman	API-1104 ASME VIII	Welded pipe Welded pipe			16 8				
6/6	Lockport Blaw Knox	ASME I-VIII MIL-R-11470	Pressure vessel Heavy casting			8 8				
6/13	Blaw Knox	MIL-R-11470	Heavy casting			16				
6/20	Bacon Tank All Metal	ASME VIII ASME VIII	Welded tubing Pressure vessel			16 16				
6/27	Marland Clutch Ni-Gas	ASME VIII API-1104	Heavy casting Welded pipe			24 24				
7/4	Iowa-Illinois Gas	API-1104	Welded pipe			32				
7/11	Iowa-Ill. Gas Blaw Knox	API-1104 MIL-R-11470	Welded pipe Heavy casting			24 8				
Total Hours:				63		461	20			

SUPERIOR INDUSTRIAL X-RAY CO.

AC 312 389-5100

126TH & HOMAN AVE., BLUE ISLAND, ILLINOIS

INDIVIDUAL NDE WORK EXPERIENCE RECORD

1978
YEAR

Name Ronald Preston
 Certification Level II

Week of	Customer	Procedure or Specification Utilized	Description of Item Examined	Hours Each Method						
				PT	UT	RT	MT	ET	VI	Q
7/18	All Metal Iowa-III Gas	ASME VIII API-1104	Pressure vessel Welded pipe			8 40				
7/25	Ni-Gas	API-1104	Welded pipe			40				
8/1	Ni-Gas	API-1104	Welded pipe			32				
8/8	Ceco (Dresden) Natural Gas	ASME I-III-VIII API-1104	Nuclear station Welded pipe	2		8 16				
8/15	Ni-Gas	API-1104	Welded pipe			46				
8/22	Phillips Pipeline	API-1104	Welded pipe			48				
8/29	Phillips Pipeline	API-1104	Welded pipe			40				
9/5	Marland Clutch Ni-Gas	ASTM-E-94 API-1104	Heavy casting Welded pipe			8 32				
9/12	Ni-Gas Blaw Knox	API-1104 MIL-R-11470	Welded pipe Heavy casting			32 20				
9/19	Texaco Ceco (Zion)	API-1104 ASME I-III	Weld edpipe Nuclear station	4		24 16		4		
9/26	Texaco Superior PIPE	API-1104 ASME VIII-B31.1	Welded pipe Welded pipe			32 8				
10/3	Texaco Superior Pipe	API-1104 ASME VIII B31.1	Welded pipe Welded pipe			8 40				
10/10	Fahralloy Superior Pipe	ASTM-E-94 API-1104	Heavy casting Welded pipe			8 32				
10/17	Phillips Pipeline Superior Pipe	API-1104 ASME VIII B31.1	Welded pipe Welded pipe			8 32				
10/24	Ceco (Dresden) Pre-fab Pipe	ASME I-III-VIII ASME VIII B31.1	Nuclear station Welded pipe	2		4 24		2		
Total Hours:						504				

SUPERIOR INDUSTRIAL X-RAY CO.

AC 312 389-5100

126TH & HOMAN AVE., BLUE ISLAND, ILLINOIS

INDIVIDUAL X-RAY WORK EXPERIENCE RECORD

1975
YEAR

Name Ronald W. Preston
 Certification Level II

Week of	Customer	Procedure or Specification Utilized	Description of Item Examined	Hours Each Method								
				PT	UT	RT	MT	ET	VT	OTH		
1/27	Lockport	ASME VIII	Pressure Vessel			40						
2/3	Lockport	ASME VIII	Pressure Vessel			16						
	Ni-Gas	API 1104	Welded Pipe			8						
2/17	Lockport	ASME VIII	Pressure Vessel			8						
3/10	Ni-Gas	API 1104	Welded Pipe			40						
3/17	Ni-Gas	API 1104	Welded Pipe			40						
3/24	Ni-Gas	API 1104	Welded Pipe			40						
3/31	Ni-Gas	API 1104	Welded Pipe			40						
4/7	Ni-Gas	API 1104	Welded Pipe			40						
4/14	Ni-Gas	API 1104	Welded Pipe			40						
4/21	Ni-Gas	API 1104	Welded Pipe			40						
4/28	Ni-Gas	API 1104	Welded Pipe			40						
	Ni-Gas	API 1104	Welded Pipe			16						
5/5	Lockport	ASME VIII	Pressure Vessel			24						
	Lockport	ASME VIII	Pressure Vessel			8						
5/12	Ni-Gas	API 1104	Welded Pipe			8						
	Morrison	ASME VIII B31.1	Prefab Pipe			16						
5/19	Ni-Gas	API 1104	Welded Pipe			16						
	Ni-Gas	API 1104	Welded Pipe			16						
5/26	Ni-Gas	API 1104	Welded Pipe									
Total Hours								650				

SUPERIOR INDUSTRIAL X-RAY CO.

AC 312 389-5100

126TH & HOMAN AVE., BLUE ISLAND, ILLINOIS

INDIVIDUAL X-RAY WORK EXPERIENCE RECORD

1975
YEAR

Name Ronald W. Preston
 Certification Level II

Week of	Customer	Procedure or Specification Utilized	Description of Item Examined	Hours Each Method								
				PT	UT	RT	MT	ET	VT	OTH		
1/27	Lockport	ASME VIII	Pressure Vessel			40						
2/3	Lockport	ASME VIII	Pressure Vessel			16						
	Ni-Gas	API 1104	Welded Pipe			8						
2/17	Lockport	ASME VIII	Pressure Vessel			8						
3/12	Ni-Gas	API 1104	Welded Pipe			40						
3/17	Ni-Gas	API 1104	Welded Pipe			40						
3/24	Ni-Gas	API 1104	Welded Pipe			40						
3/31	Ni-Gas	API 1104	Welded Pipe			40						
4/7	Ni-Gas	API 1104	Welded Pipe			40						
4/14	Ni-Gas	API 1104	Welded Pipe			40						
4/21	Ni-Gas	API 1104	Welded Pipe			40						
4/28	Ni-Gas	API 1104	Welded Pipe			40						
5/5	Ni-Gas	API 1104	Welded Pipe			16						
	Lockport	ASME VIII	Pressure Vessel			24						
5/12	Lockport	ASME VIII	Pressure Vessel			8						
	Ni-Gas	API 1104	Welded Pipe			8						
5/19	Morrison	ASME VIII B31.1	Prefab Pipe			16						
	Ni-Gas	API 1104	Welded Pipe			16						
5/26	Ni-Gas	API 1104	Welded Pipe			16						
Total Hours								650				

SUPERIOR INDUSTRIAL X-RAY CO.

AC 312 389-5100

126TH & HOMAN AVE., BLUE ISLAND, ILLINOIS

INDIVIDUAL WORK EXPERIENCE RECORD

1975
YEAR

Name Ronald W. Preston

Certification Level II

Week of	Customer	Procedure of Specification Utilized	Description of Item Examined	Hours Each Method								
				PT	UT	RT	MT	ET	VT	OTH		
1/27	Lockport	ASME VIII	Pressure Vessel			40						
2/3	Lockport	ASME VIII	Pressure Vessel			16						
	Ni-Gas	API 1104	Welded Pipe			8						
2/17	Lockport	ASME VIII	Pressure Vessel			8						
3/10	Ni-Gas	API 1104	Welded Pipe			40						
3/17	Ni-Gas	API 1104	Welded Pipe			40						
3/24	Ni-Gas	API 1104	Welded Pipe			40						
3/31	Ni-Gas	API 1104	Welded Pipe			40						
4/7	Ni-Gas	API 1104	Welded Pipe			40						
4/14	Ni-Gas	API 1104	Welded Pipe			40						
4/21	Ni-Gas	API 1104	Welded Pipe			40						
4/28	Ni-Gas	API 1104	Welded Pipe			40						
5/5	Ni-Gas	API 1104	Welded Pipe			16						
	Lockport	ASME VIII	Pressure Vessel			24						
5/12	Lockport	ASME VIII	Pressure Vessel			8						
	Ni-Gas	API 1104	Welded Pipe			8						
5/19	Morrison	ASME VIII B31.1	Prefab Pipe			16						
	Ni-Gas	API 1104	Welded Pipe			16						
5/26	Ni-Gas	API 1104	Welded Pipe			16						
Total Hours								650				

SUPERIOR INDUSTRIAL X-RAY CO.

AC 312 389-5100

126TH & HOMAN AVE., BLUE ISLAND, ILLINOIS

INDIVIDUAL X-RAY WORK EXPERIENCE RECORD

1975
YEAR

Name Ronald W. Preston
 Certification Level II

Week of	Customer	Procedure or Specification Utilized	Description of Item Examined	Hours Each Method							
				PT	UT	RT	MT	ET	VT	OTH	
1/27	Lockport	ASME VIII	Pressure Vessel			40					
2/3	Lockport	ASME VIII	Pressure Vessel			16					
	Ni-Gas	API 1104	Welded Pipe			8					
2/17	Lockport	ASME VIII	Pressure Vessel			8					
3/10	Ni-Gas	API 1104	Welded Pipe			40					
3/17	Ni-Gas	API 1104	Welded Pipe			40					
3/24	Ni-Gas	API 1104	Welded Pipe			40					
3/31	Ni-Gas	API 1104	Welded Pipe			40					
4/7	Ni-Gas	API 1104	Welded Pipe			40					
4/14	Ni-Gas	API 1104	Welded Pipe			40					
4/21	Ni-Gas	API 1104	Welded Pipe			40					
4/28	Ni-Gas	API 1104	Welded Pipe			40					
	Ni-Gas	API 1104	Welded Pipe			16					
5/5	Lockport	ASME VIII	Pressure Vessel			24					
	Ni-Gas	API 1104	Welded Pipe			8					
5/12	Lockport	ASME VIII	Pressure Vessel			8					
	Ni-Gas	API 1104	Welded Pipe			8					
5/19	Morrison	ASME VIII B31.1	Prefab Pipe			16					
	Ni-Gas	API 1104	Welded Pipe			16					
5/26	Ni-Gas	API 1104	Welded Pipe			16					
Total Hours								650			

SUPERIOR INDUSTRIAL X-RAY CO.

AC 312 389-5100

126TH & HOMAN AVE., BLUE ISLAND, ILLINOIS

INDIVIDUAL XDR WORK EXPERIENCE RECORD

1975
YEAR

Name Ronald W. Preston
 Certification Level II

Week of	Customer	Procedure or Specification Utilized	Description of Item Examined	Hours Each Method								
				PT	UT	RT	MT	ET	VT	OTH		
1/27	Lockport	ASME VIII	Pressure Vessel			40						
2/3	Lockport	ASME VIII	Pressure Vessel			16						
	Ni-Gas	API 1104	Welded Pipe			8						
2/17	Lockport	ASME VIII	Pressure Vessel			8						
3/10	Ni-Gas	API 1104	Welded Pipe			40						
3/17	Ni-Gas	API 1104	Welded Pipe			40						
3/24	Ni-Gas	API 1104	Welded Pipe			40						
3/31	Ni-Gas	API 1104	Welded Pipe			40						
4/7	Ni-Gas	API 1104	Welded Pipe			40						
4/14	Ni-Gas	API 1104	Welded Pipe			40						
4/21	Ni-Gas	API 1104	Welded Pipe			40						
4/28	Ni-Gas	API 1104	Welded Pipe			40						
	Ni-Gas	API 1104	Welded Pipe			16						
5/5	Lockport	ASME VIII	Pressure Vessel			24						
5/12	Lockport	ASME VIII	Pressure Vessel			8						
	Ni-Gas	API 1104	Welded Pipe			8						
5/19	Morrison	ASME VIII B31.1	Prefab Pipe			16						
	Ni-Gas	API 1104	Welded Pipe			16						
5/26	Ni-Gas	API 1104	Welded Pipe			16						
Total Hours								650				

SUPERIOR INDUSTRIAL X-RAY CO.

AC 312 389-5100

126TH & HOMAN AVE., BLUE ISLAND, ILLINOIS

INDIVIDUAL XDR WORK EXPERIENCE RECORD

1975
YEAR

Name Ronald W. Preston
 Certification Level II

Week of	Customer	Procedure or Specification Utilized	Description of Item Examined	Hours Each Method							
				PT	UT	RT	MT	ET	VT	OTH	
1/27	Lockport	ASME VIII	Pressure Vessel			40					
2/3	Lockport	ASME VIII	Pressure Vessel			16					
	Ni-Gas	API 1104	Welded Pipe			8					
2/17	Lockport	ASME VIII	Pressure Vessel			8					
3/10	Ni-Gas	API 1104	Welded Pipe			40					
3/17	Ni-Gas	API 1104	Welded Pipe			40					
3/24	Ni-Gas	API 1104	Welded Pipe			40					
3/31	Ni-Gas	API 1104	Welded Pipe			40					
4/7	Ni-Gas	API 1104	Welded Pipe			40					
4/14	Ni-Gas	API 1104	Welded Pipe			40					
4/21	Ni-Gas	API 1104	Welded Pipe			40					
4/28	Ni-Gas	API 1104	Welded Pipe			40					
5/5	Ni-Gas	API 1104	Welded Pipe			16					
	Lockport	ASME VIII	Pressure Vessel			24					
5/12	Lockport	ASME VIII	Pressure Vessel			8					
	Ni-Gas	API 1104	Welded Pipe			8					
5/19	Morrison	ASME VIII B31.1	Prefab Pipe			16					
	Ni-Gas	API 1104	Welded Pipe			16					
5/26	Ni-Gas	API 1104	Welded Pipe			16					
Total Hours								650			

SUPERIOR INDUSTRIAL X-RAY CO.

AC 312 389-5100

126TH & HOMAN AVE., BLUE ISLAND, ILLINOIS

INDIVIDUAL WORK EXPERIENCE RECORD

1975
YEAR

Name Ronald W. Preston

Certification Level II

Week of	Customer	Procedure or Specification Utilized	Description of Item Examined	Hours Each Method										
				PT	UT	RT	MT	ET	VT	OTH				
1/27	Lockport	ASME VIII	Pressure Vessel							40				
2/3	Lockport	ASME VIII	Pressure Vessel							16				
	Ni-Gas	API 1104	Welded Pipe							8				
2/17	Lockport	ASME VIII	Pressure Vessel							8				
3/10	Ni-Gas	API 1104	Welded Pipe							40				
3/17	Ni-Gas	API 1104	Welded Pipe							40				
3/24	Ni-Gas	API 1104	Welded Pipe							40				
3/31	Ni-Gas	API 1104	Welded Pipe							40				
4/7	Ni-Gas	API 1104	Welded Pipe							40				
4/14	Ni-Gas	API 1104	Welded Pipe							40				
4/21	Ni-Gas	API 1104	Welded Pipe							40				
4/28	Ni-Gas	API 1104	Welded Pipe							40				
5/5	Ni-Gas	API 1104	Welded Pipe							16				
	Lockport	ASME VIII	Pressure Vessel							24				
5/12	Lockport	ASME VIII	Pressure Vessel							8				
	Ni-Gas	API 1104	Welded Pipe							8				
5/19	Morrison	ASME VIII B31.1	Prefab Pipe							16				
	Ni-Gas	API 1104	Welded Pipe							16				
5/26	Ni-Gas	API 1104	Welded Pipe							16				
Total Hours										650				

SUPERIOR INDUSTRIAL X-RAY CO.

AC 312 389-5100

126TH & HOMAN AVE., BLUE ISLAND, ILLINOIS

INDIVIDUAL XRF WORK EXPERIENCE RECORD

1975
YEAR

Name Ronald W. Preston

Certification Level II

Week of	Customer	Procedure or Specification Utilized	Description of Item Examined	Hours Each Method								
				PT	UT	RT	MT	ET	VT	OTH		
1/27	Lockport	ASME VIII	Pressure Vessel			40						
2/3	Lockport	ASME VIII	Pressure Vessel			16						
	Ni-Gas	API 1104	Welded Pipe			8						
2/17	Lockport	ASME VIII	Pressure Vessel			8						
3/10	Ni-Gas	API 1104	Welded Pipe			40						
3/17	Ni-Gas	API 1104	Welded Pipe			40						
3/24	Ni-Gas	API 1104	Welded Pipe			40						
3/31	Ni-Gas	API 1104	Welded Pipe			40						
4/7	Ni-Gas	API 1104	Welded Pipe			40						
4/14	Ni-Gas	API 1104	Welded Pipe			40						
4/21	Ni-Gas	API 1104	Welded Pipe			40						
4/28	Ni-Gas	API 1104	Welded Pipe			40						
5/5	Ni-Gas	API 1104	Welded Pipe			16						
	Lockport	ASME VIII	Pressure Vessel			24						
5/12	Lockport	ASME VIII	Pressure Vessel			8						
	Ni-Gas	API 1104	Welded Pipe			8						
5/19	Morrison	ASME VIII B31.1	Prefab Pipe			16						
	Ni-Gas	API 1104	Welded Pipe			16						
5/26	Ni-Gas	API 1104	Welded Pipe			16						
Total Hours								650				

SUPERIOR INDUSTRIAL X-RAY CO.

AC 312 389-5100

126TH & HOMAN AVE., BLUE ISLAND, ILLINOIS

INDIVIDUAL X-RAY WORK EXPERIENCE RECORD

1975
YEAR

Name Ronald W. Preston
 Certification Level II

Week of	Customer	Procedure of Specification Utilized	Description of Item Examined	Hours Each Method								
				PT	VT	RT	MT	ET	VT	OTH		
1/27	Lockport	ASME VIII	Pressure Vessel			40						
2/3	Lockport	ASME VIII	Pressure Vessel			16						
	Ni-Gas	API 1104	Welded Pipe			8						
2/17	Lockport	ASME VIII	Pressure Vessel			8						
3/10	Ni-Gas	API 1104	Welded Pipe			40						
3/17	Ni-Gas	API 1104	Welded Pipe			40						
3/24	Ni-Gas	API 1104	Welded Pipe			40						
3/31	Ni-Gas	API 1104	Welded Pipe			40						
4/7	Ni-Gas	API 1104	Welded Pipe			40						
4/14	Ni-Gas	API 1104	Welded Pipe			40						
4/21	Ni-Gas	API 1104	Welded Pipe			40						
4/28	Ni-Gas	API 1104	Welded Pipe			40						
5/5	Ni-Gas	API 1104	Welded Pipe			16						
	Lockport	ASME VIII	Pressure Vessel			24						
5/12	Lockport	ASME VIII	Pressure Vessel			8						
	Ni-Gas	API 1104	Welded Pipe			8						
5/19	Morrison	ASME VIII B31.1	Prefab Pipe			16						
	Ni-Gas	API 1104	Welded Pipe			16						
5/26	Ni-Gas	API 1104	Welded Pipe			16						
Total Hours								650				

SUPERIOR INDUSTRIAL X-RAY CO.

AC 312 389-5100

126TH & HOMAN AVE., BLUE ISLAND, ILLINOIS

INDIVIDUAL FIELD WORK EXPERIENCE RECORD

1975
YEAR

Name Ronald W. Preston
 Certification Level II

Week of	Customer	Procedure or Specification Utilized	Description of Item Examined	Hours Each Method								
				PT	UT	RT	MT	ET	VT	OTH		
1/27	Lockport	ASME VIII	Pressure Vessel			40						
2/3	Lockport	ASME VIII	Pressure Vessel			16						
	N1-Gas	API 1104	Welded Pipe			8						
2/17	Lockport	ASME VIII	Pressure Vessel			8						
3/10	N1-Gas	API 1104	Welded Pipe			40						
3/17	N1-Gas	API 1104	Welded Pipe			40						
3/24	N1-Gas	API 1104	Welded Pipe			40						
3/31	N1-Gas	API 1104	Welded Pipe			40						
4/7	N1-Gas	API 1104	Welded Pipe			40						
4/14	N1-Gas	API 1104	Welded Pipe			40						
4/21	N1-Gas	API 1104	Welded Pipe			40						
4/28	N1-Gas	API 1104	Welded Pipe			40						
5/5	N1-Gas	API 1104	Welded Pipe			16						
	Lockport	ASME VIII	Pressure Vessel			24						
5/12	Lockport	ASME VIII	Pressure Vessel			8						
	N1-Gas	API 1104	Welded Pipe			8						
5/19	Morrison	ASME VIII B31.1	Prefab Pipe			16						
	N1-Gas	API 1104	Welded Pipe			16						
5/26	N1-Gas	API 1104	Welded Pipe			16						
Total Hours								650				

SUPERIOR INDUSTRIAL X-RAY CO.

AC 312 389-5100

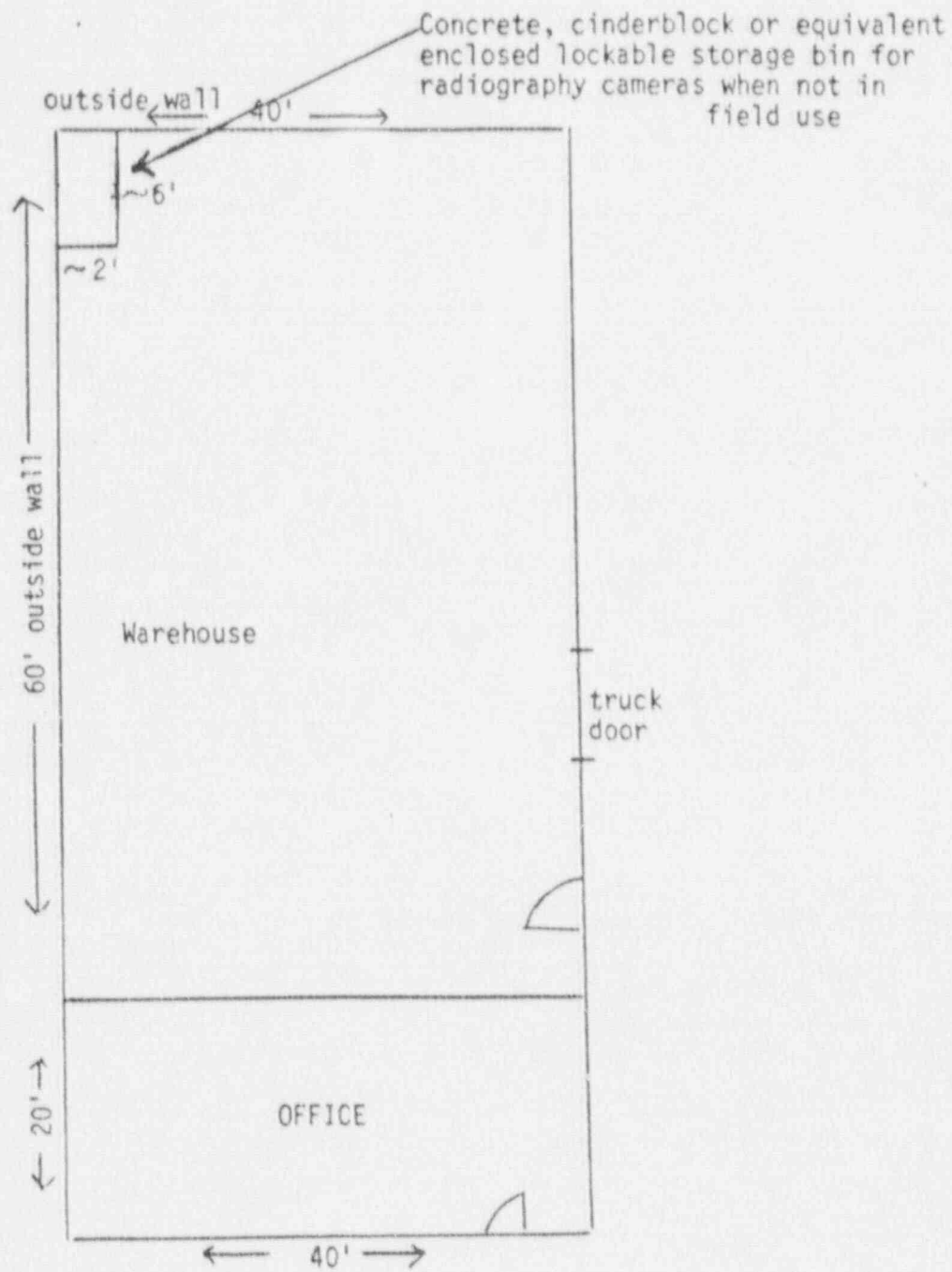
126TH & HOMAN AVE., BLUE ISLAND, ILLINOIS

INDIVIDUAL X-RAY WORK EXPERIENCE RECORD

1975
YEAR

Name Ronald W. Preston
 Certification Level II

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				PT	UT	RT	MT	ET	VT	OTH	
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	Ni-Gas	API 1104	Welded Pipe			8					
2/17	Lockport	ASME VIII	Pressure Vessel			8					
3/10	Ni-Gas	API 1104	Welded Pipe			40					
3/17	Ni-Gas	API 1104	Welded Pipe			40					
3/24	Ni-Gas	API 1104	Welded Pipe			40					
3/31	Ni-Gas	API 1104	Welded Pipe			40					
4/7	Ni-Gas	API 1104	Welded Pipe			40					
4/14	Ni-Gas	API 1104	Welded Pipe			40					
4/21	Ni-Gas	API 1104	Welded Pipe			40					
4/28	Ni-Gas	API 1104	Welded Pipe			40					
5/5	Ni-Gas	API 1104	Welded Pipe			16					
	Lockport	ASME VIII	Pressure Vessel			24					
5/12	Lockport	ASME VIII	Pressure Vessel			8					
	Ni-Gas	API 1104	Welded Pipe			8					
5/19	Morrison	ASME VIII B31.1	Prefab Pipe			16					
	Ni-Gas	API 1104	Welded Pipe			16					
5/26	Ni-Gas	API 1104	Welded Pipe			16					
Total Hours								650			



Parking lot

Cherry Hill Road

Single Building, 40' X 60'
on five acres open land
Zoned Industrial

American Testing and Inspection
1904 Cherry Hill Road
Joliet, Illinois 60433

REF: IDNS SECTION 350.1040

RADIATION SURVEY INSTRUMENTS

Eberline, Gamma Industries, or equivalent survey meters having ranges sufficient to measure radiation levels from two (2) milliroentgen per hour through one (1) roentgen per hour will be maintained at each job site where radiographic work is performed.

CALIBRATION OF INSTRUMENTS

SURVEY METERS

The survey meters will be calibrated at intervals not to exceed 3 months by any firm that is approved by the IDNS for such calibrations. Instruments will be calibrated on at least two (2) points on each scale range. Currently, our calibration service firm is Stan A. Huber Consultants, Inc., of New Lenox, Illinois, whose radiation sources and procedures are on file with the IDNS under License #IL-00317-01.

POCKET DOSIMETERS

The pocket dosimeters will be calibrated at annual intervals by Stan A. Huber Consultants, Inc., or any firm approved by the IDNS for such calibrations. The dosimeters will be calibrated on at least 2 points on the lower and upper halves of scale range.

*OPERATING AND EMERGENCY PROCEDURES FOR INDUSTRIAL RADIOGRAPHY
AMERICAN TESTING AND INSPECTION, INC.

*Due to the bulk of our operating and emergency procedure manual, we wish to reference our manual submitted to the NRC for our license #12-21101-01. The Table of Contents of the manual is enclosed along with changes we wish to make in our operating procedures.

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24. PERSONNEL MONITORING DEVICES

TYPE <i>(Check appropriate box)</i>		SUPPLIER	EXCHANGE FREQUENCY
a. WHOLE BODY	<input checked="" type="checkbox"/> FILM	R. S. Landauer, Jr. and Company	Monthly
	<input type="checkbox"/> TLD		
	<input type="checkbox"/> OTHER <i>(Specify)</i>		
b. FINGER	<input type="checkbox"/> FILM		
	<input type="checkbox"/> TLD		
	<input type="checkbox"/> OTHER <i>(Specify)</i>		
c. WRIST	<input type="checkbox"/> FILM		
	<input type="checkbox"/> TLD		
	<input type="checkbox"/> OTHER <i>(Specify)</i>		

d. OTHER *(Specify)*

Victoreen Model 541F, 541R, or equivalent pocket dosimeters having a range from 0 to at least 200 milliroentgens, will be worn by all radiography personnel at all times when using radiographic sources.

Section II

Please replace Section 2.12, 2.13, 2.14, and 2.15, with the attached sheets.

DAILY INSPECTION CHECK LIST

Device _____

A. Exposure Device and Associated Equipment

- 1) Radiation level when removed from storage.
- 2) Device crank-out and guide tube free from visible damage.
- 3) Device properly labeled.
- 4) Source identification plate in place.
- 5) Proper operation of lock mechanism.
- 6) Proper operation of crank mechanism.
- 7) Connections.
- 8) Normal operation of entire assembly.

B. Radiation Survey Meter

- 1) Meter free from visible damage.
- 2) Calibration due date not exceeded.
- 3) Battery check.
- 4) Proper response to radiation (compared to known level of radiation from radiography device -- source inside).

C. Pocket Dosimeter and Film Badge

- 1) No visible damage.
- 2) Dosimeter hairline visible and set on zero.
- 3) Slips in place and both devices being worn.

All Items O.K. Yes No If no, see back of sheet for explanation.

Date _____

Signature _____

Title _____

Day	Customer	City	Exp. Device Serial No.	Source Serial No.	Survey Readings		Survey Meter Model	Exp. Time	Total Dosimeter Reading
	Job No.	State	Exp. Device Model No.	No. Curies	Start Stop	Vehicle External Drivers Cab	Survey Meter Serial No.	Total No. of Exp.	
Sunday					MR/HR	MR/HR			MR
Monday					MR/HR	MR/HR			MR
Tuesday					MR/HR	MR/HR			MR
Wednesday					MR/HR	MR/HR			MR
Thursday					MR/HR	MR/HR			MR
Friday					MR/HR	MR/HR			MR
Saturday					MR/HR	MR/HR			MR
Section 2.12			Section 2.12		Section 2.15		2.12		2.12

Film Badge No. _____ Dosimeter Serial No. _____ Dosimeter Maker _____ Survey Meter Due Date _____

Note: On days that you are not working or no exposures are taken, use letters N.U. for not used.
Physical Survey of exposure equipment, prior to securing, must be taken top center of equipment.

Radiation field sketches must be completed opposite page.

Section 2.13

Particular type of equipment has to be checked in accordance with Sec. 2.12 and Sec. 2.13

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	CK	CK	CK	CK	CK	CK	CK

Technician Signature _____

From Date _____ To Date _____

Sunday

X

MR/HR Ft.

Monday

X

MR/HR Ft.

Tuesday

X

MR/HR Ft.

Wednesday

X

MR/HR Ft.

Thursday

X

MR/HR Ft.

Friday

X

MR/HR Ft.

Saturday

X

MR/HR Ft.

Other

X

MR/HR Ft.

Indicate survey readings in appropriate places on correct days.
On days not worked or no exposures, use initials N.U. (not used).

Technician Signature _____

Date _____

Section 11

Replace 2.4 - Radiation Survey

Replace 2.6 - Source and Equipment Storage

Replace 2.7 - Transportation of Sources

Please replace these sections with the attached sheets.

2.4 Radiation Surveys

2.4.1 Procedures

- a) A calibrated and operable survey meter, having range sufficient to measure radiation levels from two milliroentgen per hour through one roentgen per hour must be maintained at each job site where radiographic work is performed. A small tag attached to the survey meter shall show the date of the last calibration and by whom the calibration was done. This tag is checked before starting each day's work to ensure that the instrument has been calibrated within 90 days.
- b) Eberline or Gamma Industries survey meters or equivalent, will be used to perform radiation survey
- c) Survey meters will be calibrated by Stan A. Huber Consultants, Inc., or other licensed calibration firms.
- d) If for any reason survey meters become inoperable, or out of calibration date, DO NOT, perform any radiation work. Secure operations, and notify the Radiation Protection Officer immediately.
- e) A properly operating survey meter means radiation safety. DO NOT allow instrument to be coated with mud or debris. DO NOT allow to sit in excessive moisture areas. These instruments are delicate pieces of equipment and it is the radiographer's responsibility to keep them operating properly.
- f) Prior to starting each day's work, turn your instrument on battery check. If batteries are low, replace them with the extra set that has been furnished to you for this purpose.
- g) With battery check procedure completed, turn instrument on to x1 scale and check against radiation source to make sure the instrument is operable before starting the day's operation.
- h) If, for any reason, there is a malfunction of your instrument, DO NOT tamper or try to self adjust. Suspend all radiographic operations and notify the Radiation Protection Officer.

2.4.2 Area surveys must be made during each exposure to ensure that levels outlined in 2.2.3 are not exceeded.

2.4.3 Radiation surveys of the source container shall be made at the following times to ensure that the source is in shielded (safe) position:

- a) Prior to removing the source container from the locked storage cabinet.
- b) As soon as the sealed source has been retracted into the source container after a radiographic exposure or source changing operation. Container guide tube and complete circumference of the container shall be checked.
- c) A record of the survey required in (b) above shall be maintained for two years when the survey is the last survey prior to locking the radiographic exposure device and ending direct surveillance of the operation.
- d) Prior to securing the source container in the locked storage cabinet at the end of radiographic operations.

2.4.4 Records of 2.4.2 and 2.4.3 c. will be kept as stated in 2.3.1 c.

2.5 Personnel Monitoring

2.5.1 Pocket dosimeters, having a range of 2 to 200 milliroentgens, and film badges shall be worn by all radiography personnel at all times when using radiographic sources. Frequent readings during the work day shall be made by the radiographer to be sure that an "off scale" or high reading on the dosimeter does not exist.

- a) Victoreen Model 541R and Victoreen Model 541F pocket dosimeters will be used in conjunction with a Victoreen Model 200A dosimeter charger or equivalent.
- b) Dosimeters are delicate instruments and should be treated as such.
- c) Dosimeters will be zeroed prior to starting work and the readings recorded at the completion of each day that radiographic operations are to be performed. The dosimeter

2.5.1 (Continued)

charger has a "charging contact" with up or down scale control for setting the hairline indicator within the dosimeter to zero. To zero, place the end of the dosimeter opposite the pocket slip over the charging contact on the dosimeter charger. Press down lightly. The illumination should allow sighting of the hairline indicator. Next, press down firmly and adjust the hairline indicator until the hairline is located at zero. Then, adjust to a full scale reading and back to the zero mark on the dosimeter scale. Remove the dosimeter from the charging contact. Check the dosimeter to be sure the indicator has not shifted. If it has, zero the dosimeter again.

- d) Whenever a dosimeter is discharged beyond 200 milliroentgens, work will cease immediately and the film badge will be sent in immediately to be evaluated. The wearer will be suspended from radiographic operations until the film badge reports covering such dosages received by the wearer are evaluated. The Radiation Protection Officer shall be notified immediately to determine what action shall be taken to determine the cause of the high readings.
- e) Film badges will be evaluated every 30 days by R. S. Landauer, Jr. and Company, Glenwood Science Park, Illinois 60425, for dosages received by the wearer. Dosimeters will be calibrated once a year by Gamma Industries, Post Office Box 2543, Baton Rouge, Louisiana 70821.

2.5.2 Film badges shall be worn by all radiographic personnel during working hours. Each film badge shall be worn only by the person assigned to that particular badge.

2.5.3 In the event of any equipment malfunction or doubts regarding the safe operation of the equipment or safety of the area in which equipment is to be used, the Radiation Protection Officer will be consulted.

2.6 Source and Equipment Storage

2.6.1 The storage of sealed sources will conform to the following standards:

- a) Sealed sources, when not in use, will be stored inside of a locked box, which is fastened securely inside a locked darkroom camper, trailer, or inhouse storage facility. Storage room facilities are provided at 1904 Cherry Hill Road, Joliet, Illinois. These boxes are posted with, "Caution - Radioactive Material", signs. The warehouse is surrounded with a chain link fence and locked gate. The storage box is locked at all times, and only the Radiation Protection Officer and licensed radiographers have keys to this lock.
- b) The storage compartment of the darkroom camper or trailer will be posted with a, "Caution - Radioactive Material", sign.
- c) Prior to storage of the devices, the radiographer shall survey with a radiation survey meter to make certain that the source is in the proper storage position. He will also see that the exposure device is properly locked as provided for by the manufacturer's locking provisions as outlined in the operating manual which is included in Section 4. He will also survey the area outside the storage facility.

NOTE: Readings outside of storage areas shall not exceed 2 mR/hr at a distance of 18 inches from any external surface.

2.6.2 Quarterly Inventory

Each calendar quarter, a physical inventory is to be made of the sources on hand. Quarterly inventories will be conducted by the Radiation Protection Officer and recorded. A record of the quarterly inventory shall be kept by American Testing and Inspection, Inc., for a minimum of two years.

2.7 Transportation of Sources

2.7.1 When transporting sealed sources in radiographic exposure devices from the storage area to the job site, the following precautions shall be followed:

2.7.1 (Continued)

- a) All shipping plugs and locking devices will be checked to be sure that the source is in the safe position.
- b) The exposure device shall be posted with a, "Caution - Radioactive Material", sign, and it shall be locked. Keys are to be kept by the responsible radiographer and Radiation Protection Officer. The exposure device must be secured in a storage compartment of the vehicle to prevent shifting or loss.
- c) When vehicles are used, only company owned or leased vehicles shall be used to transport the exposure device to the job site. Radiation surveys should be conducted to assure readings of less than 2 mR/hr at a distance of 18 inches from any external surface of the vehicle. The cab of the vehicle shall be monitored to determine that the radiation level within the cab does not exceed 2 mR/hr. Complete "Daily Vehicle Utilization Log". The survey meter should be placed next to the driver while in transit and periodically observed to assure the safe storage of the exposure device.
- d) The radiography device (package) must be properly labeled with the appropriate category of RADIOACTIVE label in accordance with 49 CFR 172.403 (a) through (d). This requires affixing two labels on opposite sides of the package based on the radiation dose rates at the surface and at three feet (Transportation Index) from the package.

<u>LABEL</u>	<u>DOSE RATE LIMIT AT ANY POINT ON ACCESSIBLE SURFACE OF PACKAGE</u>	<u>DOSE RATE LIMIT AT 3 (ft) FROM EXTERNAL SURFACE OF PACKAGE (TRANSPORT INDEX)</u>
"RADIOACTIVE - WHITE I"	0.5 mR/hr	
"RADIOACTIVE - YELLOW II"	50 mR/hr	1.0 mR/hr
"RADIOACTIVE - YELLOW III"	200 mR/hr	10.0 mR/hr

The transporting vehicle will be placarded in accordance with the Department of Transportation regulations if necessary. The signs shall be posted on all four sides of the vehicle. This placard bears the word RADIOACTIVE and must be displayed if YELLOW III labels are placed on the transport package.

2.7.1 (Continued)

- e) The radiographer must have a minimum of the following equipment with him while transporting any device containing radioactive material: survey meter, dosimeter, film badge, Operating and Emergency Procedures, and radiation signs.
- f) When shipping an exposure device by common carrier, the device must be plainly marked and the appropriate signed shipper's certification must be included. The exposure device and/or shipping container shall be locked. A survey shall be made and recorded to assure that the shipping container is less than 200 mR/hr at any external surface. The licensee should offer the required placards to the carrier at the time the packages are picked-up.

2.8 Receiving Radioactive Material

A package of radioactive material must be accepted from a carrier at the time it is delivered.

- 2.8.1 Upon receipt of a package of radioactive material, a survey of the exterior surfaces of the package will be conducted to insure that the radiation levels do not exceed 200 milliroentgens per hour.
- 2.8.2 A survey shall be conducted at a distance of three feet from the exterior surface of the package to insure that radiation levels do not exceed ten milliroentgens per hour.
- 2.8.3 The results of these surveys will be recorded on the receiving report accompanying the package. If any of the above limits are exceeded, notify the Radiation Protection Officer.
- 2.8.4 The source, model number, serial number, isotope, activity and shipping container number shall be recorded on the receiving report.
- 2.8.5 The package will be inspected for damage. The results of the inspection will be recorded on the receiving report. A copy of the receiving report shall be forwarded to the Radiation Protection Officer.

Section III

Please replace Section 3.6 Notification of Emergencies with the attached sheet.

3.5.1 (Continued)

- d) In the event that medical aid or the fire department is required, the radiographer or his assistant shall notify these people of the radiation hazard.
- e) The radiographer shall notify the Radiation Protection Officer of the emergency as soon as possible.

3.6 Notification of Emergencies

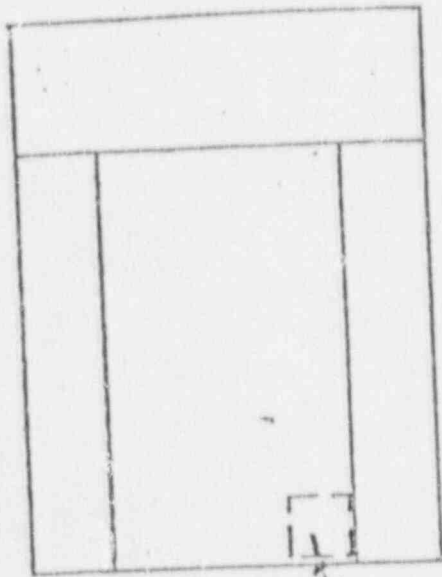
- 3.6.1 In the event of any emergency involving or threatening to involve any radioactive materials or devices, the following persons are to be notified immediately:

Mr. Ron Preslin - RPO
Office - (815) 726-3900
Home - (312) 957-9299

Illinois Department of Nuclear Safety
1035 Outer Park Drive
Springfield, Illinois 62704
(217) 785-9900

Section VII

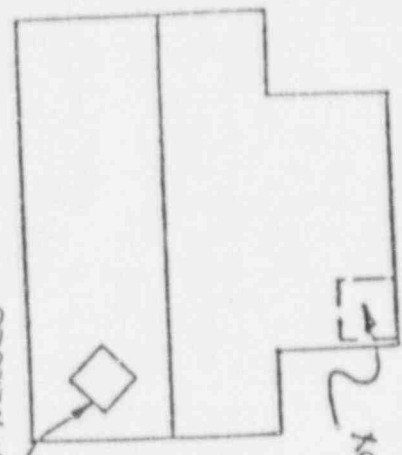
Please replace facility sketch and camper storage box location with the attached revised sketches.



STORAGE BOX
SECURED TO
FLOOR

TOP
(LOOKING IN)

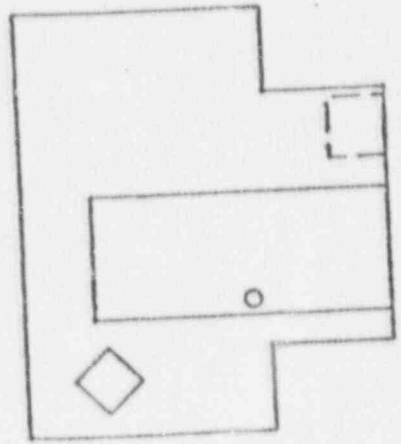
APPROVED "RADIOACTIV
SIGNS TYP. 4 SIDES
IF NEEDED



LEAD LINED
STORAGE BOX
POSTED WITH
APPROVED "RADIOACTIVE"
SIGN

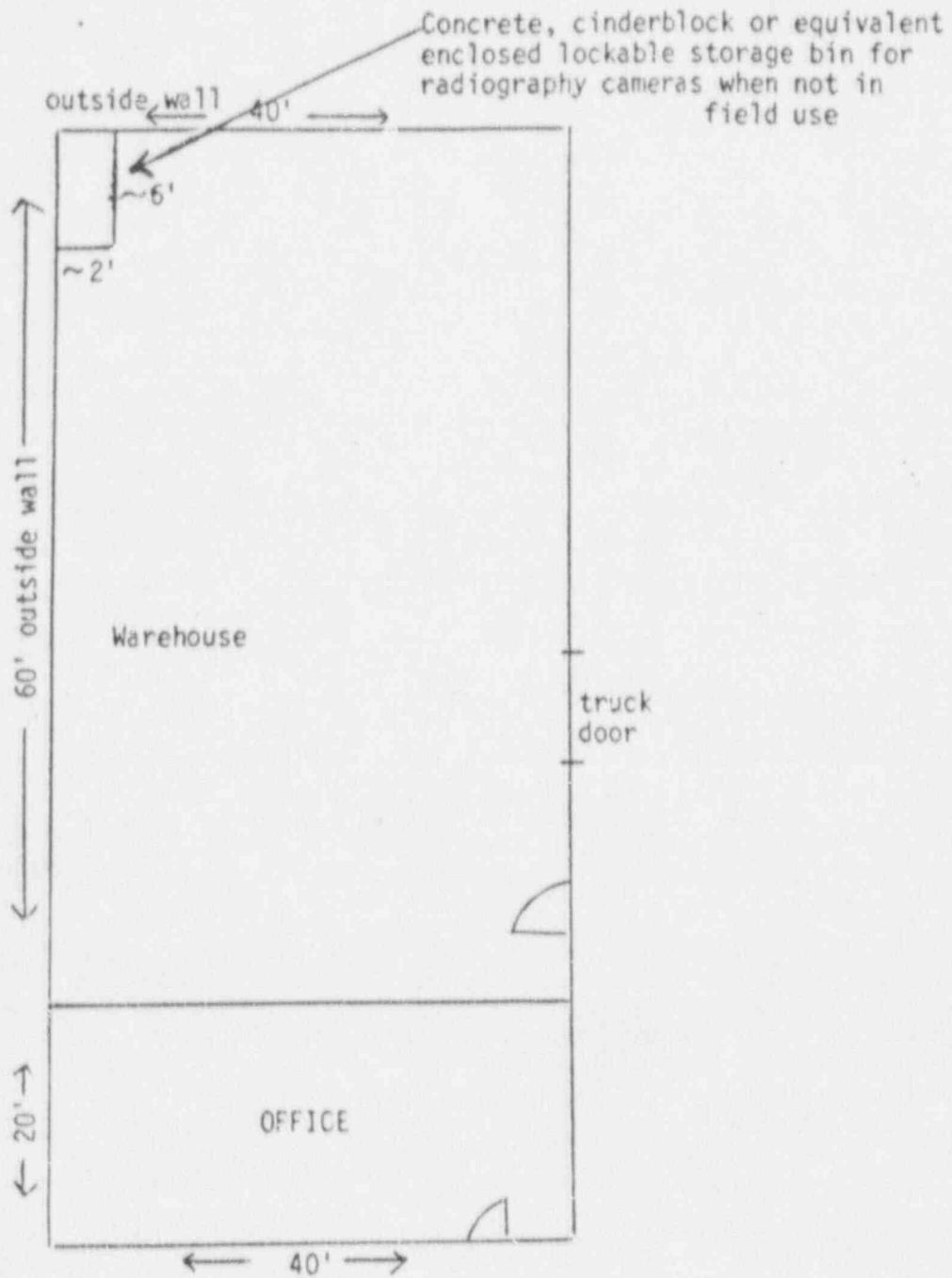
FRONT

R. SIDE
(LEFT SIDE TYP.)



BACK

AMERICAN TESTING & INSPECTION
STORAGE BOX LOCATION



Parking lot

Cherry Hill Road

Single Building, 40' X 80'
on five acres open land
Zoned Industrial

American Testing and Inspection
1904 Cherry Hill Road
Joliet, Illinois 60433

Section VIII

Please replace Title 10 Code of Federal Regulations Parts 19, 20 and 34, with:

Illinois Statutes and Regulations sections:

340 Standards for Protection Against Radiation

341 Transport of Radioactive Material

350 Radiation Safety Requirements for Industrial Radiographic Operations

400 Notice to Employees

REF: IDNS (NRC) 313 - ITEM 11

WASTE MANAGEMENT AND DISPOSAL

We will return spent sources to licensed suppliers or we may use any NRC/State licensed waste disposal service as a back-up method of disposal, especially if an accumulation of waste would develop. We may also transfer radioactive materials to any appropriately licensed recipient.

American Testing and Inspection, Inc.
1904 Cherry Hill Road
Joliet, Illinois 60433

January 7, 1986

10 CFR PART 71 QA PROGRAM
FOR INDUSTRIAL RADIOGRAPHY - NRC LICENSE #12-21101-01

1. Organization

The final responsibility for the Quality Assurance (QA) Program for Part 71 Requirements rests with American Testing and Inspection, Inc. Design and Fabrication shall not be conducted under this QA Program. The QA Program is implemented using the organization as described on "Exhibit A" Organizational Chart as appended to this QA Program description.

The Radiation Safety Officer is responsible for overall administration of the QA Program, training and certification, document control, and auditing.

The Radiographers are responsible for handling, storing, shipping, inspection, test and operating status, and recordkeeping.

2. Quality Assurance Program

The management of American Testing and Inspection, Inc., establishes and implements this QA Program. Training, prior to engagement, for all QA functions is required according to written procedures. QA Program revisions will be made according to writing procedures with management approval. The QA Program will ensure that all defined QC procedures, engineering procedures, and specific provisions of the package design approval are satisfied. The QA Program will emphasize control of the characteristics of the package which are critical to safety.

The Radiation Safety Officer shall assure that all radioactive material shipping packages are designed and manufactured under a QA Program approved by the Nuclear Regulatory Commission for all packages designed or fabricated after January 1, 1979. This requirement will be satisfied by receiving a certification to this effect from the manufacturer.

NOTE: Ron Preston obtains these certificates from the manufacturer. To simplify this task, only Tech-Ops, Inc., Iridium-192 industrial radiography units of the same type are being used. If another individual manufacturers radiography system would be acquired, individual certification would also be obtained.

3. Document Control

All documents related to a specific shipping package will be controlled through the use of written procedures. All document changes will be performed according to written procedures approved by management.

The Radiation Safety Officer shall insure that all QA functions are conducted in accordance with the latest applicable changes to these documents.

NOTE: The Nuclear Consultants assist in auditing these documents periodically, and at least once a year.

4. Handling, Storage, and Shipping

Written safety procedures concerning the handling, storage, and shipping of packages for certain special form radioactive material will be followed. Shipments will not be made unless all tests, certifications, acceptances, and final inspections have been completed. Work instructions will be provided for handling, storage, and shipping operations.

Radiography personnel shall perform the critical handling, storage, and shipping operations.

NOTE: These procedures are detailed in American Testing and Inspection, Inc. NRC license No 12-21101-01 and license applications which are a part of the initial and annual radiation safety training review for all ATI radiographers.

5. Inspection, Test, and Operating Status

Inspection, test, and operating status of packages for certain special form radioactive material will be indicated by tag, label, marking, or log entry. Status of non-conforming parts or packages will be positively maintained by written procedures.

Radiography personnel shall perform the regulatory required inspections and tests in accordance with written procedure. The Radiation Safety Officer shall ensure that these functions are performed.

NOTE: This is accomplished by the R.S.O. personal inspections of packages and supervision of tests, operating status, and records.

6. Quality Assurance Records

Records of package approvals (including references and drawings) procurement, inspections, tests, operating logs, audit results, personnel training and qualifications, and records of shipments will be maintained. Descriptions of equipment and written procedures will also be maintained.

These records will be maintained in accordance with written procedures. The records will be identified and retrievable. A list of these records, with their storage locations, will be maintained by the Radiation Safety Officer.

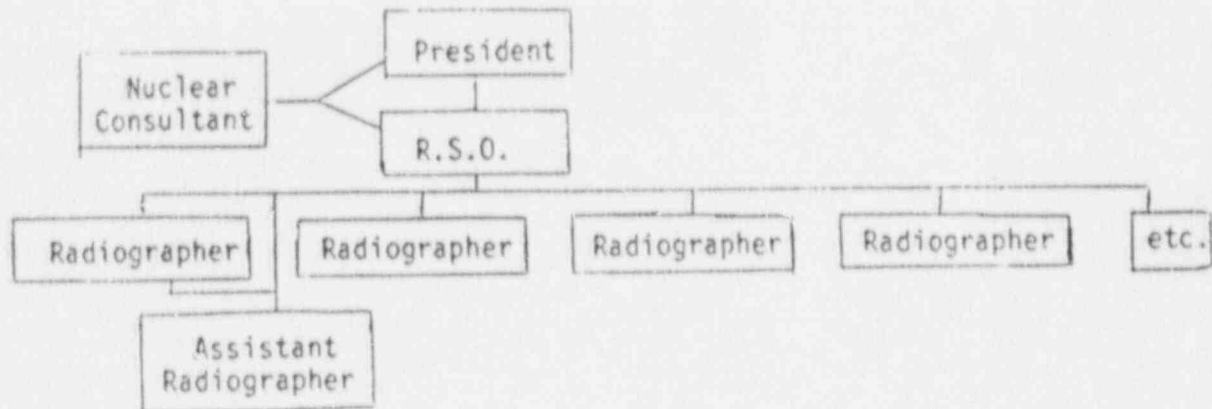
NOTE: The QA records are specified in ATI's NRC license; 10 CFR Part 34, and 10 CFR Part 71 Subpart H. These records are maintained in the "Inspections" file cabinet in the ATI business office.

7. Audits

Established schedules of audits of the QA Program will be performed using written check lists. Results of audits will be maintained and reported to management. Audit reports will be evaluated and deficient areas corrected. The audits will be dependent on the safety significance of the activity being audited, but each activity will be audited at least once per year. Audit reports will be maintained as part of the quality assurance records. Members of the audit team shall have no responsibility in the activity being audited.

NOTE: The typical written check list used by ATI in its annual audits is titled "Radiography Inspection Report", of which a sample is attached. These audits are conducted by the R.S.O. and the nuclear consultants, with interviews of the ATI radiographers and office personnel, to assure an objective audit of overall activities including compliance with QA Program, license conditions, and regulations.

American Testing and Inspection, Inc. (ATI)
Organizational Chart for 10 CFR Part 71 Q.A. Program



- Notes:
1. The President and Radiation Safety Officer (R.S.O.) is Ron Preston, who is the responsible individual for Part 71 Q.A. requirements.
 2. The Nuclear Consultants are Stan A. Huber Consultants, Inc. - New Lenox, Illinois. They assist the R.S.O. with periodic compliance and Q.A. audits and in conducting formal training.
 3. The Radiographers names are listed on ATI's NRC License #12-21101-01 and may change from time to time.
 4. Assistant Radiographers are generally upgraded to Radiographers after they have successfully completed on-the-job and formal training requirements as specified in ATI's NRC license and 10 CFR Part 34, Appendix A.

RADIOGRAPHY INSPECTION REPORT

Inspection Report No. _____

Licensee (Name and address)

Licensee Contact: _____ Telephone No. _____

License No. _____ Docket No. _____

Last Amendment No. _____ Date of Amendment: _____

Category: C Priority: II

Date of Inspection: _____

Type of Inspection: () Announced () Initial
() Unannounced () Special
() Reinspection

Summary of Findings and Action:

- () No Noncompliance, Clear 591 issued () Action on Previous N/C
- () Noncompliance, 591 issued () Regional Action
- () Noncompliance, Appendix A () Hq Action

Inspector: _____ (Signature) _____ (Date Signed)

Approved: _____ (Signature) _____ (Date Signed)

1. INSPECTION HISTORY

a. Item(s) of noncompliance or deviations noted during last inspection conducted on: _____ () Yes () No

b. Requirement Severity Corrected Status

c. If any item(s) of noncompliance or deviations noted during last inspection were not corrected, explain:

2. ORGANIZATION

a. Management Structure

b. Personnel Interviewed

* Attended Management close-out meeting

- c. Administrative structure meets license requirements: () Yes () No
(L/C - MPA)

- d. Radiography Personnel

Radiographers

Radiographer's Assistants

3. TRAINING, RETRAINING AND SUPERVISION OF RADIOGRAPHY PERSONNEL

- a. Radiographers and Assistants named in license: () Yes () No
- b. Radiographer's Assistant under direct supervision of a Radiographer:
() Yes () No (34.44 - EPY)

- c. Approved training program: () Yes () No

- d. Deficiencies noted: () Yes () No (L/C - MPA)

- e. Training provided by: _____

- f. Written tests: () Yes () No

- g. Oral tests: () Yes () No

- h. Record of test results: () Yes () No (34.31(c) - EPY)

- i. Test results reviewed by NRC inspector: () Yes () No

j. Retraining program required by License Condition: () Yes () No

k. Retraining program implemented: () Yes () No
(L/C - MPA)

l. Records of retraining reviewed: () Yes () No

m. Instruction to workers in accordance with 19.12: () Yes () No
(19.12 - HAI)

4. INTERNAL AUDITS AND INSPECTIONS

a. Required by License Condition: () Yes () No

b. Audits or inspections conducted: () Yes () No
(L/C - MPA)

c. Records maintained: () Yes () No
(L/C - MPA)

5. INSPECTION & MAINTENANCE OF DEVICES, CONTAINERS, AND CHANGERS

a. Included in Operating and Emergency Procedures: () Yes () No
(34.32(j) - BSC)

b. Equipment check prior to use each day: () Yes () No
(34.28(a) - EDM)

c. Record of results maintained: () Yes () No
(34.28(b) - BEM)

d. Equipment check at 3 month intervals: () Yes () No
(34.28(b) - BEM)

e. Record of results maintained: () Yes () No
(34.28(b) - BEM)

6. NRC REGULATIONS, LICENSE AND OPERATING & EMERGENCY PROCEDURES

a. Parts 19, 20 and 34; the license; and Operating and Emergency Procedures furnished to all radiographers and radiographer's assistants: () Yes () No (34.31(a)(2) - BSA)

b. Operating and Emergency Procedures approved by NRC: () Yes () No

7. UTILIZATION LOG

a. Utilization log maintained: () Yes () No
(34.27 - BEL)

b. Utilization log contains all required information: () Yes () No
(34.27(a), (b), (c) - BEL)

B. QUARTERLY INVENTORIES

a. Quarterly physical inventories conducted: () Yes () No
(34.26 - BEK)

b. Quarterly inventories contain all information: () Yes () No
(34.26 - BEK)

c. Byproduct Material inventory on: _____

<u>Quantity</u>	<u>Isotope</u>	<u>Source S/N</u>	<u>Camera Model</u>	<u>S/K</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

d. Procurement and use of byproduct material in accordance with
license requirements: () Yes () No
(L/C - MAF)

e. Scope of Program:

9. MATERIALS, FACILITIES AND EQUIPMENT

a. Fixed Facility:

- 1) As described in application dated _____, Report
dated _____, Or _____

- 2) Entrance controlled in accordance with 20.203(c)(2):
 Yes No (20.203(c)(2) - ALC)

- 3) Exit in accordance with 20.203(c)(3): Yes No
(20.203(c)(3) - ALD)

- 4) Surveillance to prevent unauthorized entry: Yes No
(20.203(c)(4) - ARY)

- 5) Visible and audible signals to warn of the presence of
radiation: Yes No (34.29(h) - BPY)

- 6) Alarm system tested at 3 month intervals: Yes No
(34.29(c) - BPY)

- 7) Record of alarm system test: Yes No
(34.29(c) - BPY)

5) Radiographic exposure devices and storage containers meet radiation level limits of 34.21: () Yes () No
(34.21 - BLA)

b. Storage Area:

1) Sources locked in device: () Yes () No
(34.22(a) - BEB)

2) Devices secured to prevent unauthorized removal from an unrestricted area: () Yes () No (20.207 - ACA)

c. Field Location

1) Field work authorized: () Yes () No
(L/C - MAJ)

2) Field inspection conducted: () Yes () No

NOTE: If yes, complete inspection report for Module No. 75720B

d. Survey Meters

1) Calibrated and operable meters available and used: () Yes () No
(34.43(a) - BPC)

2) Type and number available:

3) 2 mR/hr through 1 R/hr can be measured: () Yes () No
(34.24 - BED)

4) Calibrated by: _____

5) Calibration method authorized: () Yes () No
(L/C - MPA)

6) Calibrated at 3 month intervals: () Yes () No
(34.24 - BED)

e. Special Equipment (shields, collimators, etc.)

10. PERSONNEL MONITORING

a. Film or TLD badge supplier: _____ Frequency: _____

b. Reports reviewed by: _____ Frequency: _____

c. NRC inspector reviewed personnel monitoring records for
period _____ to _____

d. Licensee exposure limit: 1.25 R/Quarter _____ 3 R/Quarter _____

e. NRC forms or equivalent:

1) NRC-4: () Yes () No Complete: () Yes () No

2) NRC-5 () Yes () No Complete: () Yes () No
(20.401(a) - AEA)

f. Maximum quarterly exposure: _____ Average: _____

e. Each individual assigned film badge and dosimeter: () Yes () No
(34.33(a) - BSD)

h. Dosimeter type: _____ Range: _____

i. Annual check of dosimeter for correct response: () Yes () No
(34.33(c) - BPY)

j. Dosimeter recharged at start of each shift: () Yes () No
(34.33(a) - BSD)

k. Dosimeter dose recorded daily: () Yes () No
(34.33(b) - BSI)

l. Dosimeter readings comparable to film badge readings: () yes () No

If No, explain: _____

11. LEAK TESTS

a. Leak test method approved: () Yes () No
(34.25(c)- BEG)

b. Model of leak test kit: _____

c. Test at 6 month intervals: () Yes () No
(34.25(b)- BEF)

d. Record of leak test results maintained: () Yes () No
(34.25(c) - BEG)

e. Records reviewed by NRC inspector for period _____ to _____

12. SURVEYS

a. Area or facility survey conducted to show compliance with
20.105: () Yes () No (20.201(b) - ASD)

b. Area or facility survey recorded: () Yes () No
(20.401(b) - AEB)

c. NRC inspector reviewed records for period _____ to _____

d. Maximum radiation levels in unrestricted areas: _____

e. Survey after each exposure: () Yes () No
(34.43(b) - BPD)

f. Survey includes guide tube: () Yes () No
(34.43(b) - BPD)

g. Record of final survey before securing device: () Yes () No
(34.43(c) - BPF)

13. POSTING AND LABELING

- a. High Radiation Area posted as required: Yes No
(20.203(c)(1) - ALB)

- b. Radiation Area posted as required: Yes No
(20.203(b) - ALA)

- c. Use or storage area posted "Caution - Radioactive Material":
 Yes No (20.203(e)(1) - ALF)

- d. Containers or devices properly labeled: Yes No
(20.203(f) - ALC)

- e. Posting of "Notice to Workers:" Yes No
(19.11(a) or (b) - HAE)

- f. Posting of "Notice to Employees:" Yes No
(19.11(c) - HAF)

14. CONFIRMATORY MEASUREMENTS

- a. Independent measurements made by inspector: Yes No

b. Survey Instrument: _____ NRC Serial No. _____

Last date of calibration: _____

c. Describe type and results of measurements and compare these with licensee's measurements: _____

15. RECEIVING AND SHIPPING OF RADIOACTIVE MATERIALS

a. Procedures for picking up, receiving, and opening of packages:

Yes No (20.205 - APA)

b. Written procedures: Yes No

c. Shipping incidents since last inspection: Yes No

d. Survey of packages when received: Yes No
(20.205(c)(1) - APA)

e. Record of survey of packages: Yes No
(20.401(b) - AEB)

f. Shipment of sources since last inspection: Yes No

1) Only container authorized by license has been used: Yes No

2) Shipping papers and package labeling properly completed:

Yes No (71.5 - LAB)

3) Licensed material transferred in accordance with (30.41):

Yes No (30.41 - BAY)

4) Record of receipt and transfer: Yes No
(30.51 - BAC)

16. NOTIFICATIONS AND REPORTS

a. Licensee in compliance with 19.13 (Reports to individuals):

Yes No (19.13 - HAK)

b. Licensee in compliance with 20.405 (Over exposures):

Yes No (20.405(a) - ARM)

c. Licensee in compliance with 20.403 (Incidents):


Yes No (20.403 - AR? or AR?)

d. Licensee in compliance with 20.402 (Theft or loss):

Yes No (20.402(a) - ARA) or (20.402(b) - ARB)

e. Annual report to Commission: Yes No
(20.407 - ARR) .,

f. Termination report to Commission: Yes No
(20.408 - ART)



17. LICENSE CONDITIONS

- a. All license Conditions reviewed during inspection: () Yes () No
- b. Activities were conducted in accordance with License Conditions except as noted elsewhere in this report: () Yes () No

18. BULLETINS AND CIRCULARS

- a. Bulletins and Circulars issued during current year: () Yes () No
- b. Bulletins and Circulars received by licensee: () Yes () No
- c. Licensee took appropriate action in response to Bulletins and Circulars: () Yes () No

19. ITEMS OF NONCOMPLIANCE

See Appendix A

20. CONTINUATION OF PREVIOUS PARAGRAPHS



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

DEC 20 1990

SGTB:GMB
71-0569

American Testing & Inspection Company
ATTN: Mr. R. Preston
1904 Cherry Hill Road
Joliet, IL 60433-8506

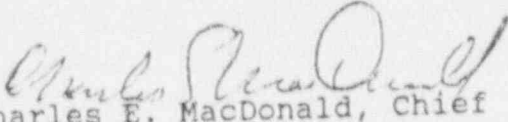
Gentlemen:

Your Quality Assurance Program Approval for Radioactive Material Packages No. 0569 expires on January 31, 1991.

If you are an NRC licensee and conduct activities under the General Licenses of Subpart C of 10 CFR Part 71, or if you are an Agreement State licensee subject to the requirements of 10 CFR Part 71, you are required by 10 CFR Part 150.20 to hold a quality assurance (QA) program approved by the Commission as satisfying the provisions of Subpart H of 10 CFR Part 71. You should request renewal of your quality assurance program at least 30 days prior to the expiration date. This will provide for continuation of your QA program to satisfy part of the provisions of Subpart C of 10 CFR Part 71 until a final determination has been taken on your application.

Unless an exemption is provided by 10 CFR 170.11, an application fee of \$180.00, as required by 10 CFR Part 170.31, should be included with your request for renewal. This notice of expiration should not be construed that such notice will be provided in the future. If you do not desire to renew your QA program, please let me know.

Sincerely,


Charles E. MacDonald, Chief
Transportation Branch
Division of Safeguards and
Transportation

97722-0189 1p.