

MATERIALS LICENSE

Amendment No. 23

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

302007

Licensee		In accordance with letter dated October 15, 1996
1. Northern Indiana Public Service Company Chemical & Environmental Compliance Group 2. Southlake Complex 5265 Hohman Ave. Hammond, IN 46320-1775		3. License Number 13-14984-01 is amended in its entirety as follows:
		4. Expiration Date May 31, 2003
		5. Docket or Reference No. 030-08362
6. Byproduct, Source, and/or Special Nuclear Material	7. Chemical and/or Physical Form	8. Maximum Amount that Licensee May Possess at Any One Time Under This License
A. Cesium-137	A. Sealed sources	A. See Item 9.A.
B. Cesium-137	B. Sealed sources	B. See Item 9.B.
C. Cesium-137	C. Sealed sources	C. See Item 9.C.
D. Strontium-90	D. Sealed sources (Texas Nuclear Model 696-69681)	D. No single source to exceed 2 microcuries
E. Iron-55	E. Sealed source (Texas Nuclear Model 696- 696863)	E. One source not to exceed 45 millicuries each
F. Cadmium-109	F. Sealed source (Texas Nuclear Model 696- 696873)	F. One source not to exceed 5 millicuries
G. Americium-241	G. Sealed source (Texas Nuclear Model 696- 696803)	G. One source not to exceed 0.5 microcurie

9. Authorized Use:

- A. For possession and use in Ohmart Corporation devices which have been evaluated and approved for licensing purposes and authorized for distribution under a license issued by the U.S. Nuclear Regulatory Commission or an Agreement State.
- B. For possession and use in Kay-Ray, Incorporated devices which have been evaluated and approved for licensing purposes and authorized for distribution under a license issued by the U.S. Nuclear Regulatory Commission or an Agreement State.

190041

COPY

912 ml
230
SD

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

13-14984-01

Docket or Reference Number

030-08362

Amendment No. 23

- C. For possession and use in Texas Nuclear devices which have been evaluated and approved for licensing purposes and authorized for distribution under a license issued by the U.S. Nuclear Regulatory Commission or an Agreement State.
- D. To be used in Texas Nuclear Corporation Model 885326 single point detectors for calibration purposes.
- E., F. and G. To be used in Texas Nuclear Corporation Model 9200 Series (9266 Source Housing) for X-Ray fluorescence alloy analysis.

CONDITIONS

10. Licensed material shall be used only at the following licensee's power generating stations: Rollin M. Schahfer Station, County Road 1400N and State Road 49, Wheatfield, Indiana; Michigan City Generating Station, Wabash Street and Lake Michigan, Michigan City, Indiana; The Dean H. Mitchell Station, Clarke Road and Lake Michigan, Gary, Indiana; Bailly Generating Station, R.R. 3, Box 246, Chesterton, Indiana.
11. A. The Radiation Protection Officer for the activities authorized by this license is Joe R. Huber. The Radiation Protection Officer shall perform semi-annual audits of the licensed activities to assure conformance with commitments, procedures, license conditions and applicable regulations. Records shall be maintained of these audits.
- B. The Assistant Radiation Protection Officer for the activities authorized by this license is Andrew G. Fishman or John W. Flegel.
12. Licensed material shall only be used by, or under the supervision of individuals who have successfully completed the manufacturer's training program for gauge users, have been instructed in the licensee's routine and emergency operating procedures and who have been designated by the Radiation Safety Officer. The licensee shall maintain records of individuals designated as users and their training for 5 years following the last use of licensed material by the individual.
13. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.
- B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.
- C. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.

COPY

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

13-14984-01

Docket or Reference Number

030-08362

Amendment No. 23

- D. The leak test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region III, 801 Warrenville Road, Lisle, Illinois 60532-4351, ATTN: Chief, Nuclear Materials Safety Branch. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.
- E. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to perform such services.
14. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
15. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory, and shall include the quantities and kinds of byproduct material, manufacturer's name and model numbers, location of the sources and/or devices, and the date of the inventory.
16. Installation, initial radiation survey, relocation, or removal from service of devices containing sealed sources shall be performed by or under the direct supervision of Joe R. Huber, Andrew G. Fishman or John W. Flegel or by persons specifically licensed by the Commission or an Agreement State to perform such services. Maintenance and repair of devices and installation, replacement, and disposal of sealed sources shall be performed only by persons specifically licensed by the Commission or an Agreement State to perform such services.
17. Prior to initial use and after installation, relocation, dismantling, alignment, or any other activity involving the source or removal of the shielding, the licensee shall assure that a radiological survey is performed to determine radiation levels in accessible areas around, above, and below the gauge with the shutter open.

This survey shall be performed only by persons authorized to perform such services by the Commission or an Agreement State. A record of the results of this survey shall be maintained for the duration of the license.

COPY

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

13-14984-01

Docket or Reference Number

030-08362

Amendment No. 23

18. The licensee shall operate each gauge within the manufacturer's specified temperature and/or environmental limits such that the shielding and shutter mechanism of the source holder are not compromised.
19. The licensee shall assure that the shutter mechanism is locked in the closed position during periods when a portion of an individual's body may be subject to the direct radiation beam. The licensee shall review and modify as appropriate its "lock-out" procedures whenever a new gauge is obtained to incorporate the device manufacturer's recommendations.
20. Each gauge shall be tested for the proper operation of the on-off mechanism and indicator, if any, at no longer than 6-month intervals or at such longer intervals as specified by the manufacturer and approved by U.S. Nuclear Regulatory Commission.
21. In addition to the possession limits in Condition 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.
22. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
 - A. Application dated March 30, 1993; and
 - B. Letter dated October 15, 1996 (with enclosures).

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date December 3, 1996

By

Loren J. Huster
Nuclear Materials Licensing Branch, Region III

COPY

(FOR LFMS USE)
INFORMATION FROM LTS

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

Program Code: 03120
Status Code: 0
Fee Category: 3P
Exp. Date: 20030531
Fee Comments:
Decom Fin Assur Req'd: N

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: NORTHERN INDIANA PUBLIC SERVICE CO.
Received Date: 961031
Docket No: 3008362
Control No.: 302007
License No.: 13-14984-01
Action Type: Amendment

2. FEE ATTACHED 200

Amount: 100
Check No.: ~~864188~~
864189

3. COMMENTS

Signed
Date

D. Hensley
11-4-96

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered ☒)

1. Fee Category and Amount: *3P* *\$300*

2. Correct Fee Paid. ☒ Application may be processed for:

Amendment
Renewal
License

3. OTHER

Signed
Date

SC
11/8/96

NOV 22 1996

Log	<i>NOV 4 70</i>
Remitter	
Check No.	<i>864188 / 864189</i>
Amount	<i>\$200 / \$100</i>
Fee Category	<i>3P</i>
Type of Fee	<i>Amd</i>
Date Check Rec'd	<i>11/8/96</i>
Date Completed	
By	<i>SC</i>

1996 NOV -8 AM 9:07

28



Northern Indiana Public Service Company

5265 Hohman Avenue • Hammond, Indiana 46320-1775 • (219) 853-5200

A subsidiary of NIPSCO Industries, Inc.

October 15, 1996

Mr. Kevin Null
U.S. Nuclear Regulatory Commission
Material Licensing Section
Region III
801 Warrenville Road
Lisle, IL 60532-4351

Dear Kevin:

This is a request by Northern Indiana Public Service Company for Amendment No. 23 to our NRC License #13-14984-01. Enclosed is a check for the \$300.00 Amendment Fee under the schedule of Materials Fees (Category 3P in 10 CFR 170.31). Please send the receipt to the Undersigned at the address listed below in Condition #1 & #2.

Enclosed please find NRC Form 313, "Application For Material License" and a copy of our current License. At this time, it is necessary to amend the following conditions to our NRC License.

Condition #1 & #2: Northern Indiana Public Service Company
(Licensee) Chemical and Environmental Compliance Group
Southlake Complex
5265 Hohman Avenue
Hammond, IN 46320-1775

Condition #11: Remove: Mark G. Small and Gregory M. Schoof as the
Radiation Protection Officers
Add: Joe R. Huber as the Radiation Protection Officer
Add: Andrew G. Fishman and John W. Flegel as the
Assistant Radiation Protection Officers

Condition #11 should read as follows:

"The Radiation Protection Officer for the activities

RECEIVED

OCT 31 1996

REGION III

302007
OCT 31 1996

pm: 10-29-96

Mr. Kevin Null
U.S. Regulatory Commission

Page 2

authorized by this License is Joe R. Huber. The Radiation Protection Officer shall perform semi-annual audits of the Licensed activities to assure conformance with commitments, procedures, License Conditions and applicable regulations. Records shall be maintained of these audits. In the absence of and after directed by the Radiation Protection Officer, Joe R. Huber, the Assistant Radiation Protection Officer will administer the authorized activities for the Radiation Protection during his absence. The Assistant Radiation Protection Officers are Andrew G. Fishman and John W. Flegel."

Radiation Protection Officer Certification and Training Records for Joe R. Huber, Andrew G. Fishman and John W. Flegel are attached.

Condition #16

Remove: Mark G. Small and Gregory M. Schoof
Add: Joe R. Huber, Andrew G. Fishman and
John W. Flegel

Condition #16 should read as follows:

"Installation, initial radiation survey, relocation, or removal from service of devices containing sealed sources shall be performed by or under the direct supervision of the Radiation Protection Officer, Joe R. Huber, or by persons specifically Licensed by the Commission or an Agreement State to perform such services. Maintenance and repair of devices and installation, replacement and disposal of sealed sources shall be performed only by persons specifically licensed by the Commission or an Agreement State to perform such services. In the absence of and after directed by the Radiation Protection Officer, Joe R. Huber, the Assistant Radiation Protection Officer will administer/supervise the authorized activities for the Radiation Protection Officer during his absence. The Assistant Radiation Protection Officers are Andrew G. Fishman and John W. Flegel."

Condition #21:

Remove: Power Engineering Department
Add: Chemical and Environmental Compliance Group

Mr. Kevin Null
U.S. Regulatory Commission

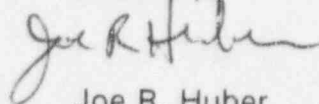
Page 3

Condition #21 should read as follows:

"The Licensee shall maintain records of information related to decommissioning at Northern Indiana Public Service Company, Chemical and Environmental Compliance Group, 801 East 86th Avenue, Merrillville, Indiana, as specified in 10 CFR 30.35(g) until this License is terminated by the Commission."

These changes are being made at this time primarily due to a Company Reorganization. If you have any questions concerning this Amendment, please contact the Undersigned at (219) 647-5392.

Sincerely,



Joe R. Huber

JRH:ald
Enclosures

(7-96)
10 CFR 30, 32, 33
34, 35, 36, 39 and 40

APPLICATION FOR MATERIAL LICENSE

Estimated burden per response to comply with this information collection request: 7 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Forward comments regarding burden estimate to the Information and Records Management Branch (T-8 F33), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, and to the Paperwork Reduction Project (3150-0120), Office of Management and Budget, Washington, DC 20503. NRC may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

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.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

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, PENNS'LVANIA,
RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

LICENSING ASSISTANT SECTION
NUCLEAR MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406-1415

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

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION II
101 MARIETTA STREET, NW, SUITE 2900
ATLANTA, GA 30323-0199

IF YOU ARE LOCATED IN:

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

MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
801 WARRENVILLE RD.
LISLE, IL 60532-4351

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS,
LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA,
OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH,
WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
811 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 78011-8064

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 JURISDICTIONS.

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

- ☐ A. NEW LICENSE
☒ B. AMENDMENT TO LICENSE NUMBER 13-14984-01
☐ C. RENEWAL OF LICENSE NUMBER _____

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

Northern Indiana Public Service Company
5265 Hohman Avenue
SLC Compliance, Chemical/Environmental Compliance
Hammond, IN 46320-1775

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

Unchanged

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Joe R. Huber

TELEPHONE NUMBER
(219) 647-5392

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.
7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.	8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.
9. FACILITIES AND EQUIPMENT.	10. RADIATION SAFETY PROGRAM.
11. WASTE MANAGEMENT.	12. LICENSEE FEES (See 10 CFR 170 and Section 170.31) FEE CATEGORY <u>3P</u> AMOUNT ENCLOSED \$ <u>300.00</u>
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, 36, 39 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, 1949 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.	

CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE

Jerry L. Godwin VP/GM Electric Supply

SIGNATURE

DATE

10/28/96

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 39, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee

1. Northern Indiana Public Service Company
Power Engineering
2. Southlake Complex
5265 Hohman Ave.
Hammond, IN 46320-1775

In accordance with application dated
March 30, 1993

3. License number 13-14984-01 is renewed in its entirety as follows:

4. Expiration date May 31, 1998

5. Docket or Reference No. 1030-08362

6. Byproduct, source, and/or special nuclear material

- A. Cesium-137
- B. Cesium-137
- C. Cesium-137
- D. Strontium-90

- E. Iron-55

- F. Cadmium-109

- G. Americium-241

7. Chemical and/or physical form

- A. Sealed sources

- B. Sealed sources

- C. Sealed sources

- D. Sealed sources

- (Texas Nuclear Model 696-69681)

- E. Sealed source (Texas Nuclear Model 696-696863)

- F. Sealed source (Texas Nuclear Model 696-696873)

- G. Sealed source (Texas Nuclear Model 696-696803)

8. Maximum amount that licensee may possess at any one time under this license

- A. See Item 9.A.

- B. See Item 9.B.

- C. See Item 9.C.

- D. No single source to exceed 2 microcuries

- E. One source not to exceed 45 millicuries each

- F. One source not to exceed 5 millicuries

- G. One source not to exceed 0.5 microcurie

9. Authorized Use:

- A. For possession and use in Ohmart Corporation devices which have been evaluated and approved for licensing purposes and authorized for distribution under a license issued by the U.S. Nuclear Regulatory Commission or an Agreement State.
- B. For possession and use in Kay-Ray, Incorporated devices which have been evaluated and approved for licensing purposes and authorized for distribution under a license issued by the U.S. Nuclear Regulatory Commission or an Agreement State.

COPY

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

13-14984-01

Docket or Reference number

030-08362

Amendment No. 22

- C. For possession and use in Texas Nuclear devices which have been evaluated and approved for licensing purposes and authorized for distribution under a license issued by the U.S. Nuclear Regulatory Commission or an Agreement State.
- D. To be used in Texas Nuclear Corporation Model 885326 single point detectors for calibration purposes.
- E., F. and G. To be used in Texas Nuclear Corporation Model 9200 Series (9266 Source Housing) for X-Ray fluorescence alloy analysis.

CONDITIONS

10. Licensed material shall be used only at the following licensee's power generating stations: Rollin M. Schaffer Station, County Road 1400N and State Road 49, Wheatfield, Indiana; Michigan City Generating Station, Wabash Street and Lake Michigan, Michigan City, Indiana; The Dean H. Mitchell Station, Clarke Road and Lake Michigan, Gary, Indiana; Bailly Generating Station, R.R. 3, Box 246, Chesterton, Indiana.
11. The Radiation Protection Officers for the activities authorized by this license are Mark G. Small, and Gregory M. Schoof. The Radiation Protection Officers shall perform semi-annual audits of the licensed activities to assure conformance with commitments, procedures, license conditions and applicable regulations. Records shall be maintained of these audits.
12. Licensed material shall only be used by or under the supervision of individuals who have successfully completed the manufacturer's training program for gauge users, have been instructed in the licensee's routine and emergency operating procedures and who have been designated by the Radiation Safety Officer. The licensee shall maintain records of individuals designated as users and their training for 5 years following the last use of licensed material by the individual.
13. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.
- B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.
- C. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.

COPY

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License number

13-14984-01

Docket or Reference number

030-08362

Amendment No. 22

- D. The leak test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region III, 799 Roosevelt Road, Glen Ellyn, Illinois 60137, ATTN: Chief, Nuclear Materials Safety Branch. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.
- E. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to perform such services.
14. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
15. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory, and shall include the quantities and kinds of byproduct material, manufacturer's name and model numbers, location of the sources and/or devices, and the date of the inventory.
16. Installation, initial radiation survey, relocation, or removal from service of devices containing sealed sources shall be performed by or under the direct supervision of Mark G. Small or Gregory M. Schoof or by persons specifically licensed by the Commission or an Agreement State to perform such services. Maintenance and repair of devices and installation, replacement, and disposal of sealed sources shall be performed only by persons specifically licensed by the Commission or an Agreement State to perform such services.
17. Prior to initial use and after installation, relocation, dismantling, alignment, or any other activity involving the source or removal of the shielding, the licensee shall assure that a radiological survey is performed to determine radiation levels in accessible areas around, above, and below the gauge with the shutter open.
- This survey shall be performed only by persons authorized to perform such services by the Commission or an Agreement State. A record of the results of this survey shall be maintained for the duration of the license.

COPY

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

13-14984-01

Docket or Reference number

030-08362

Amendment No. 22

18. The licensee shall operate each gauge within the manufacturer's specified temperature and/or environmental limits such that the shielding and shutter mechanism of the source holder are not compromised.
19. The licensee shall assure that the shutter mechanism is locked in the closed position during periods when a portion of an individual's body may be subject to the direct radiation beam. The licensee shall review and modify as appropriate its "lock-out" procedures whenever a new gauge is obtained to incorporate the device manufacturer's recommendations.
20. Each gauge shall be tested for the proper operation of the on-off mechanism and indicator, if any, at no longer than 6-month intervals or at such longer intervals as specified by the manufacturer and approved by U.S. Nuclear Regulatory Commission.
21. The licensee shall maintain records of information related to decommissioning at Northern Indiana Public Service Company, Power Engineering Department, 801 East 86th Street, Merrillville, Indiana as specified in 10 CFR 30.35(g) until this license is terminated by the Commission.
22. In addition to the possession limits in Condition 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.
23. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
- A. Application dated March 30, 1993.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date MAY 12 1993

By

Loren J. Huetter
Materials Licensing Section, Region III

COPY

TN Technologies

A Thermo Instruments Company

February 21, 1995

Mr. Joe Huber
Compliance Engineer
Northern Indiana Public Service Co.
POP Dept., SLC
5265 Hohman Avenue
Hammond, IN 46320

Dear Mr. Joe Huber:

We are pleased to confirm your successful completion of the Radiation Safety Training Course conducted February 13-17, 1995 by TN Technologies Inc.

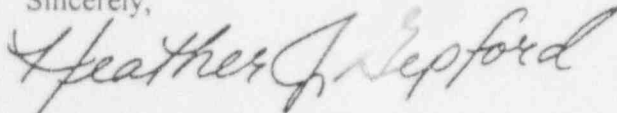
Enclosed are the following:

Record of Performance
Certificate of Training
Letter of Certification
Course Outline
American Board of Industrial Hygiene information
Guide for Specific License Amendment

This form letter suggests what may be said to your regulatory agency to obtain the license amendments necessary to conduct installation, relocation, and leak testing on the listed TN Technologies industrial devices. Copies of procedures, survey and leak test forms from your course manual, with necessary changes to meet your specific requirements, should be sent with you license application as necessary.

Congratulations on completing the Radiation Safety Training Course. If we can be of further assistance, do not hesitate to let us know.

Sincerely,



Heather J. Gepford
Senior Project Engineer
Technical Services

Enclosures

RECORD OF PERFORMANCE

Joe Huber
Compliance Engineer
Northern Indiana Public Service Co.

HOMEWORK AVERAGE

99.5

TEST

97

FINAL GRADE

98.0

Class Average = 93.5

Certificate of Training

This is to certify that

JOE R. HUBER

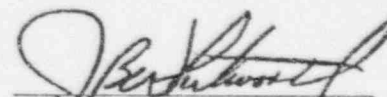
Has Successfully Completed the
A Comprehensive [40 Hour] Radiation Safety Training Course
Presented by TN Technologies

TN Technologies

A Thermo Instruments Company

P.O. Box 800, Round Rock, Texas 78680-0800
Tel.: (512) 388-9100, Fax: (512) 388-9200

Issued February 17, 1995



James B. Whitworth, Ph.D.
Director of Technical Services

LETTER OF CERTIFICATION

This is to certify that

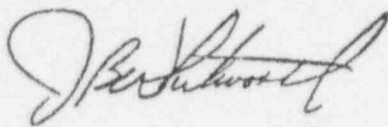
Joe Huber
Northern Indiana Public Service Co.

has attended and successfully completed a course of instruction, conducted under the auspices of TN Technologies Inc. and described in the attached course agenda. The course covers fundamentals of radiation, units of dose and quality of radiation fields, hazards of radiation exposure, detection devices, regulatory controls, industrial devices and specific training on installation and leak testing of TN Technologies density, level, and weigh gauges.

The said course of instruction, together with prior experience, is structured to qualify persons who complete it to understand and safely perform various operations involving nuclear devices including the installation, relocation, and leak testing of such equipment. The operations are to be performed in accordance with the rules and regulations of the United State Nuclear Regulatory Commission and/or "Agreement States", and are in all respects subject to such rules and regulations.

This letter cannot be used in lieu of a specific license from or other sanction by an appropriate regulatory agency.

TN TECHNOLOGIES INC.



J. B. Whitworth, PhD.
Director, Technical Services

OUTLINE
TN TECHNOLOGIES
40-HOUR INDUSTRIAL RADIATION SAFETY TRAINING COURSE

Atomic Structure

- A. Bohr Model
- B. Nuclides and Notation
- C. Isotopes

Types of Radiation

- A. Alpha
- B. Beta
- C. Gamma and X
- D. Neutrons

Radioactive Decay

- A. Decay schemes
- B. Decay law
- C. Half-life

Radiation Dose Units

- A. Roentgen
- B. Rad
- C. Rem
- D. Quality factor

Radiation Interaction with Matter

- A. Ionizing vs. nonionizing
- B. Ionization and excitation
- C. Specific ionization
- D. Linear Energy Transfer
- E. Time, distance, and shielding
- F. Inverse square law

Shielding

- A. Alpha particle interactions
- B. Beta particle interactions

Shielding(cont.)

- C. Photon interactions
 - 1. Photoelectric, Compton scattering, pair production
 - 2. Photon exposure rate
 - 3. Shield calculations ($I = I_0 e^{-\mu t}$)
 - 4. Half-value layers
- D. Neutron interactions

Biological Effects

- A. Radiosensitivity
- B. General cell structure
- C. Exposure (acute, chronic)
- D. Damage (somatic, genetic)
- E. Long term effects
- F. Internal dosimetry
- G. Total accumulated dose
- H. Natural background radiation

Radiation Detection

- A. Fundamentals of detection
- B. Instrument characteristics, uses and limitations
- C. Survey meters

Personnel Monitoring

- A. Requirements
- B. Film badges, TLDs, etc.

Industrial

- A. Industrial device installation
 - 1. Requirements
 - 2. Surveying & leak testing demonstration
- B. Industrial applications

Outline, 40-hour Industrial Radiation Safety Training Course
Page Two

Factory "Hands-On" Training

- A. Demonstration/discussion of different types of survey meters
- B. Use of portable radiation survey meters
- C. Survey a fixed gauge
- D. Prepare survey forms
- E. Leak test devices using QT/1S procedure
- F. Count swabs
- G. Prepare leak test certificates

Regulatory Control

- A. Title 10 Code of Federal Regulations
- B. Agreement states
- C. Licensing procedures
- D. General vs specific license
- E. User responsibility

Radiation Protection Program/ALARA

- A. ALARA statement
- B. Radiation Protection Program
- C. Operating, safety, and emergency procedures
- D. Compliance with dose limits
- E. Employee notification
- F. Recordkeeping
- G. Posting
- H. Training
- I. Incident reporting

Shipping Radioactive Material

Written Test on Lectures and Homework Assignments

Note: Homework is assigned each night during the course.

The Industrial Radiation Safety Training Course has been approved for CM points through the American Board of Industrial Hygiene. When updating your file, provide them with the following information:

Sponsor:	TN Technologies, Inc.
Name of activity:	Industrial Radiation Safety Training
Date:	February 13-17, 1995
CM points awarded:	4.5
CM approval number:	8162

For additional information, contact:

Ms. Barbara A. Saalfeld
Administrative Assistant
American Board of Industrial Hygiene
4600 W. Saginaw
Suite 101
Lansing, MI 48917-2737
(517) 321-2638

CERTIFICATION OF TRAINING

NAME: John W. Flegel
COMPANY: Northern Indiana Public Service Company (NIPSCO)

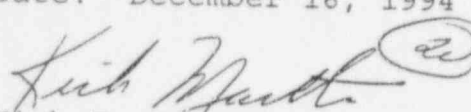
The above named individual has successfully completed the 40 hour, "INSTALLATION AND NUCLEAR RADIATION SAFETY COURSE" offered by Kay-Ray/Sensall, Inc., consisting of the following curriculum:

- Principles and practices of radiation protection (8 hours)
- Monitoring radiation levels using Geiger counters (4 hours)
- Radiation exposure limits (4 hours)
- Radiation areas defined (4 hours)
- Calculating radiation levels from known gamma source size and distance (2 hours)
- Calculating dose rates of typical installation (6 hours)
- Leak testing Kay-Ray source housings (2 hours)
- Safety practices required for the use and handling of Kay-Ray source housings (8 hours)
- Installation of source housings demonstration and hands-on installation (2 hours)

The training course also includes discussions on practical applications installations, leak testing procedures, radiation surveys, completion of related forms, and NRC Rules and Regulations as it applies to Industry.

Certified on Equipment Models: 7050, 7050B, 7051, 7051B, 7052, 7054, 7062, 7062B, 7062BP, 7062H, 7062P, 7062PH, 7063, 7063S, 7063P, 7063PS, 7063PH, 7064, 7064P, 7067, 7067P, 7069, 7069P, 7080, 7100A, 7100B, 7100, 7102, 7103, 7104, 7105, 7106, 7107, 7060SD, and 7106.

Instructor: Raymond Parsons
Date: December 16, 1994


Kirk F. Maranto
Field Service Manager

Training Certificate

This is to certify that

John W. Flegel

has successfully completed factory training in:

Radiation Safety School

In accordance with this specific program
this certificate is issued:

December 16, 1994

Date

Raymond D. Parsons

Instructor

Kay-Ray/Sensall

FISHER-ROSEMOUNT Managing The Process Better.

Kay-Ray/Sensall

Kay-Ray/Sensall, Inc.
1400 Business Center Drive
Mount Prospect, IL 60056 6063 USA
Tel 1 (708) 803-5100
Fax 1 (708) 803-5466

CERTIFICATION OF TRAINING

NAME: Andrew G. Fishman
COMPANY: Northern Indiana Public Service Company (NIPSCO)

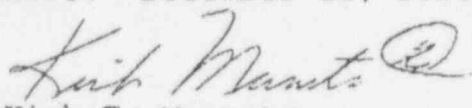
The above named individual has successfully completed the 40 hour, "INSTALLATION AND NUCLEAR RADIATION SAFETY COURSE" offered by Kay-Ray/Sensall, Inc., consisting of the following curriculum:

- Principles and practices of radiation protection (8 hours)
- Monitoring radiation levels using Geiger counters (4 hours)
- Radiation exposure limits (4 hours)
- Radiation areas defined (4 hours)
- Calculating radiation levels from known gamma source size and distance (2 hours)
- Calculating dose rates of typical installation (6 hours)
- Leak testing Kay-Ray source housings (2 hours)
- Safety practices required for the use and handling of Kay-Ray source housings (8 hours)
- Installation of source housings demonstration and hands-on installation (2 hours)

The training course also includes discussions on practical applications, installations, leak testing procedures, radiation surveys, completion of related forms, and NRC Rules and Regulations as it applies to Industry.

Certified on Equipment Models: 7050, 7050B, 7051, 7051B, 7052, 7054, 7062, 7062B, 7062BP, 7062H, 7062P, 7062PH, 7063, 7063S, 7063P, 7063PS, 7063PH, 7064, 7064P, 7067, 7067P, 7069, 7069P, 7080, 7100A, 7100B, 7100, 7102, 7103, 7104, 7105, 7106, 7107, 7060SD, and 7108.

Instructor: Raymond Parsons
Date: December 16, 1994


Kirk F. Maranto
Field Service Manager

Training Certificate

This is to certify that

Andrew G. Fishman

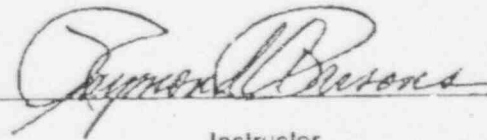
has successfully completed factory training in:

Radiation Safety School

In accordance with this specific program
this certificate is issued:

December 16, 1994

Date



Instructor

Kay-Ray/Sensall

FISHER-ROSEMOUNT Managing The Process Better.

DEC 04 1996

Joe R. Huber
Radiation Safety Officer
Northern Indiana Public Service Company
Chemical & Environmental Compliance Group
Southlake Complex
5265 Hohman Avenue
Hammond, IN 46320-1775

Dear Mr. Huber:

Enclosed is Amendment No. 23 to your NRC Material License No. 13-14984-01 in accordance with your request.

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region III office at (630) 829-9887 so that we can provide appropriate corrections and answers.

Please note: we have added five years to the expiration date listed on your license. You should have recently received official notification from our headquarters office explaining the cause for the five-year extension. In the meantime, if you have any questions, please call me.

Please be advised that your license expires at the end of the day, in the month, and year stated in the license. Unless your license has been terminated, you must conduct your program involving byproduct materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate in accordance with NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers; Inspections," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
2. Notify NRC, in writing, within 30 days:
 - a. When the Radiation Safety Officer permanently discontinues performance of duties under the license or has a name change; or

302007

- b. When the licensee's mailing address changes (no fee is required if the location of byproduct material remains the same).
3. In accordance with 10 CFR 30.36(b) and/or license condition, notify NRC, promptly, in writing, and request termination of the license when you decide to terminate all activities involving materials authorized under the license.
4. Request and obtain a license amendment before you:
 - a. Change Radiation Safety Officers;
 - b. Order byproduct material in excess of the amount, or radionuclide, or form different than authorized on the license;
 - c. Add or change the areas of use or address or addresses of use identified in the license application or on the license; or
 - d. Change ownership of your organization.
5. Submit a complete renewal application with proper fee or termination request at least 30 days before the expiration date of your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of byproduct material after your license expires is a violation of NRC regulations. A license will not normally be renewed, except on a case-by-case basis, in instances where licensed material has never been possessed or used.

In addition, please note that NRC Form 313 requires the applicant, by his/her signature, to verify that the applicant understands that all statements contained in the application are true and correct to the best of the applicant's knowledge. The signatory for the application should be the licensee or certifying official rather than a consultant.

You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation, or imposition of a civil penalty, or an order suspending, modifying or revoking your license as specified in the General Policy and Procedures for NRC Enforcement Actions. Since serious consequences to employees and the public can result from failure to comply with NRC requirements,

J. Huber

-3-

prompt and vigorous enforcement action will be taken when dealing with licensees who do not achieve the necessary meticulous attention to detail and the high standard of compliance which NRC expects of its licensees.

Sincerely,

Original Signed By
Loren J. Hueter
Nuclear Materials Licensing Branch

License No. 13-14984-01
Docket No. 030-08362

Enclosures:

1. Amendment No. 23
2. NRC Form 313

DOCUMENT NAME: M:\03008362.CL6

To receive a copy of this document, indicate in the box: "C" = Copy without attachment/enclosure "E" =
Copy with attachment/enclosure "N" = No copy

OFFICE	DNMS/RIII	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NAME	LJHueter:brt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DATE	12/03/96	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

OFFICIAL RECORD COPY

CONVERSATION RECORD

TIME

DATE

11-25-96

☐ VISIT☐ CONFERENCE☒ TELEPHONE☐ INCOMING☒ OUTGOING

NAME OF PERSON(S) CONTACTED OR IN CONTACT

ORGANIZATION (OFFICE, DEPT. ETC.)

TELEPHONE NO.

Joe Huber,

Northern Indiana
Public Service Co.

219-

647-5392

SUBJECT

CN 302007

SUMMARY

1. Joe confirmed that no change in ownership involved and that change in name/mailling address should be as shown in october 15, 1996 letter and not on application dated october 28, 1996.
2. Joe requested that the amendment be sent to him directly to assure it will get to him.
3. We discussed that we will delete Lic. Cond. # 21 from amendment No. 22. in that requirements for records maintenance is now covered by 10 CFR 30.35(g).
4. We also discussed how Lic. Conditions 11. and 16. would be modified to conform with standard License conditions. Mr. Huber concurred.

ACTION REQUIRED

NAME OF PERSON DOCUMENTING CONVERGATION

SIGNATURE

DATE

Loren Hunter

11-25-96

ACTION TAKEN

SIGNATURE

TITLE

DATE



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION III
801 WARRENVILLE ROAD
LISLE, ILLINOIS 60532-4351

November 4, 1996

Joe R. Huber
Radiation Safety Officer
Northern Indiana Public Service, Co.
Power Engineering
Southlake Complex
5265 Hohman Avenue
Hammond, IN 46320-1775

SUBJECT: ACKNOWLEDGEMENT OF CORRESPONDENCE
(Letter Dated 10/15/96)

Dear Licensee:

In response to your request, we have completed the initial processing, which is an administrative review of your application for a(n):

☐ New License ☒ Amendment ☐ Renewal
☐ Termination ☐ Auth User (Amendment not required)
☐ Other _____

No administrative deficiencies were identified during this initial review. However, it should be noted that a technical review may identify omissions in the submitted information.

It appears that your request is routine (see 1-3 below, as applicable).

1. New and amendment actions are normally processed within 90 days, unless we find major deficiencies, or policy issues requiring central program office assistance.
2. Renewal actions are normally processed within 180 days, however, under timely filing (before expiration), you may continue to operate under your existing license.
3. Termination actions are normally processed within 90 days, unless confirmatory surveys following decontamination/decommissioning activities are involved.

A copy of your correspondence has been forwarded to our Licensing Fee and Debt Collection Branch (301/415-6097) for approval of the fee category and amount, if required.

If you have a compelling safety or business-related reason for requesting expedited review, please contact the Materials Licensing Branch at (630) 829-9887. We will try to complete your request as soon as practicable. Any correspondence about this request should reference the control number.

Nuclear Materials Support Branch

Mail Control No. 302007
License No. 13-14984-01