

MATERIALS LICENSE

Amendment No. 01

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.

302395

Licensee

1. City of Detroit
Department of Public Work
City Engineering Division
2. Highways, Streets, Sidewalks Inspection
12225 Southfield Road
Detroit, MI 48228

In accordance with application dated
March 3, 1997

3. License Number 21-24406-02 is amended in its entirety to read as follows:

4. Expiration Date July 31, 2001

5. Docket or Reference No. 030-34061

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 Source
(Troxler Dwg.
No. A-102112)

- A. Five sources not to exceed 9 millicuries each

- B. Americium-241

- B. Sealed Source
(Troxler Dwg.
No. A-102451)

- B. Five sources not to exceed 44 millicuries each

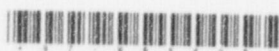
9. Authorized Use:

- A. and B. To be used in Troxler Model 3400 Series moisture/density gauges.

- A. To be used in Troxler Model 4640 Series surface density gauges.

CONDITIONS

10. Licensed material may be stored at the licensee's facilities located at 12225 Southfield Road, Detroit, Michigan, and at temporary job sites of the licensee located within the tri-county area (Wayne, Oakland and Macomb Counties.)
11. The Radiation Safety Officer for this license is Dr. Johnson Tweh.
12. Licensed material shall only be used by, or under the supervision and in the physical presence of Dr. Johnson Tweh or 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.



9703280430 970319
PDR ADOCK 03034061
C PDR

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MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

21-24406-02

Docket or Reference Number

030-34061

Amendment No. 01

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.
- D. Sealed sources need not be leak tested if:
- (i) they contain only hydrogen-3; or
 - (ii) they contain only a radioactive gas; or
 - (iii) the half-life of the isotope is 30 days or less; or
 - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
 - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transferred to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- E. The leak test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. 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 in accordance with 10 CFR 30.50(b)(2), 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, ATTN: Chief, Nuclear Materials Safety Branch, 801 Warrenville Road, Lisle, Illinois 60532-4351. The report shall specify the source involved, the test results, and corrective action taken.

COPY

MATERIALS LICENSE
SUPPLEMENTARY SHEETLicense Number
21-24406-02Docket or Reference Number
030-34061

Amendment No. 01

- F. The licensee is authorized to collect leak test samples for analysis by Troxler. Alternatively, tests for leakage and/or contamination may be performed by 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. When performing tests at temporary job sites, the authorized user shall not leave the moisture/density gauge unattended. Upon completion of tests the device shall be locked in the licensee's vehicle or a secure building to prevent unauthorized use, loss, or theft.
16. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license.
17. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
18. Each portable nuclear gauge shall have a lock or outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container must be locked when in transport, storage, or when not under the direct surveillance of an authorized user.
19. Any cleaning, maintenance, or repair of the gauge(s) that requires removal of the source rod shall be performed only by the manufacturer or by other persons specifically licensed by the Commission or an Agreement State to perform such services.
20. 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. Applications dated December 20, 1995, May 9, 1996 (amended on May 30, 1996) and March 3, 1997; and
- B. Facsimile dated March 17, 1997.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date MAR 19 1997By Loren J. Hunter
Nuclear Materials Licensing Branch, Region III

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

(FOR LFMS USE)
INFORMATION FROM LTS

Program Code: 03121
Status Code: 4
Fee Category: 3P
Exp. Date: 19950930
Fee Comments:
Decom Fin Assur Req'd: N
.....

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: DETROIT, CITY OF
Received Date: 970310
Docket No: 3018607
Control No.: 302395
License No.: 21-24406-01
Action Type: Amendment

2. FEE ATTACHED

Amount: 300
Check No.: 3708385

3. COMMENTS

Signed
Date

D. Hersey
3-16-97

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
3/12/97

MAR 17 1997

Log	Mar 5 III
Remitter	
Check No.	3708385
Amount	\$300
Fee Category	3P
Type of Fee	Amo
Date Check Rec'd	3/12/97
Date Completed	
By:	SC

1997 MAR 12 AM 8:19

APPLICATION FOR MATERIAL LICENSE

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 9 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-6 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.

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, PENNSYLVANIA,
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 MARILYN STREET, N.W. 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
111 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 76011-8064

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 21-24406-02
☐ C RENEWAL OF LICENSE NUMBER _____

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

City of Detroit, Dept. of Public Works
City Engineering Division
Highways, Streets, Sidewalks, Inspection
12225 Southfield Rd., Detroit, MI 48228

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

12225 Southfield Road
Detroit, Michigan 48228

See attached sheet for items 5,6,7

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Willie Williams

TELEPHONE NUMBER

(313) 224-3915

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

AMOUNT
ENCLOSED \$300.00

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, 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, 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.

CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE

Willie Williams, Field Engineer

SIGNATURE

Willie Williams

DATE

3/3/97

FOR NRC USE ONLY

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

RECEIVED

MAR 10 1997

REGION III

PRINTED ON RECYCLED PAPER

March 3, 1997

Nuclear Materials Licensing Section
U.S. Nuclear Regulator Commission
Region III
801 Warrenville Road
Lisle, Illinois 60537-4351

Re: Request for License Amendment
Amendment No. 1
License No. 21-24406-02
Certified Mail # P 285 856 263

Dear Sir/ Madam:

The City Engineering Division-Department of Public Works, City of Detroit, requests that the nuclear materials license, No. 21-24406-02, to be amended to include the following changes.

1. Dr. Johnson Tweh is identified as the new Radiation Safety Officer(RSO), effective immediately. Mr. Paul Danforth, former RSO, will be retired from the City of Detroit effective on March 20, 1997.
2. Remove the radioactive material related to the Boart Longyear(CPN Products) nuclear density gauges and the Troxler moisture gauge from the license.

The following documents(A through E) are attached for implementation of the amendment.

- A. Completed amendment form No. 313
- B. Fee, check no. 3708385, of \$300.
- C. **Troxler Radiation Safety Officer Course**, certification of completion for the RSO.

DENNIS W. ARCHER, MAYOR

RECEIVED
MAR 10 1997
REGION III
MAR 10 1997



Page 2 of 2
March 3, 1997
Request for License Amendment
Amendment No. 1
License No. 21-24406-02
Certified Mail# P 285 856 263

- D. **Troxler Training Course for the Use of Nuclear Testing Equipment**, certification of completion for the RSO.
- E. A copy of letters from Troxler received on 2/27/97 and 2/28/97, the letter confirms Troxler's receipt of nuclear sources that are to be deleted from the NRC license 21-24406-02.

If there are questions, you are requested to contact Mr. Willie Williams. Mr. Williams can be contacted at 313 224-3915. In the absents of Mr. Williams, you may contact the RSO, Dr. Johnson Tweh at 313 935-3828.

Sincerely,

SUNDAY JAIYESIMI, P.E.
City Engineer

A handwritten signature in cursive script that reads "Willie Williams".

By: Willie Williams, P.E.
Field Engineer

c: S. Jaiyesime, DPW
W. Talley, DPW
J. Tweh, DPW
B. Elliott, DPW

Re: Amendment to License No. 21-24406-02
Attachment for NRC Form No. 313

Item 5 Delete:

By Product Source and/or Special Nuclear Material	Chemicals and/or Physical Form	Maximum Amount Possessed at Any One Time Under This License
C. Cesium -137	C. Sealed Source (Campbell Pacific Nuclear Model CPN-131)	C. Five sources not to exceed 10 millicuries each
D. Americium-241:Be	D. Sealed source (Campbell Pacific Nuclear Model CPN-131)	D. Five sources not to exceed 50 millicuries each
E. Americium-241:Be	E. Sealed source (Troxler Dwg. No. A-102700)	E. One source not to exceed 10 millicuries each

Item 6 Delete:

- C. And D. To be used in Kurt Longyear, Company, CPN Products Models A, B
(R) MC and 500 Series surface density gauges.
- E. For Storage only in a Troxler 4300 Series depth moisture gauge.

Item 7 Change

- A. Paul A. Danforth, the present Radiation Safety Officer will no longer be employed by
The Engineering Division of the Department of Public Works as of January 31, 1997.
- B. Dr. Johnson Tweh will become the new Radiation Safety Officer with the following
Qualifications:
1. Completed the Troxler Use of Nuclear Testing Equipment Safety Course on
11/09/95, Certificate No. 070524, Frank D. Jones, instructor.
 2. Completed the Troxler Radiation Safety Officer Course on 3/21/96, Stewart
Spraggins, instructor.

Certificate of Completion

This Certifies that

JOHNSON TWEH

has successfully completed the

Troxler Radiation Safety Officer Course

conducted by the training program of

Troxler Electronic Laboratories, Inc.

Stewart Spraggins
STEWART SPRAGGINS

Instructor

3/21/96

Date

WILLIAM F. TROXLER

President

TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

WILLIAM JOHNSON

of

CITY OF DETROIT

HAS SUCCESSFULLY COMPLETED THE TROXLER ELECTRONIC LABORATORIES, INC. TRAINING COURSE FOR THE USE OF NUCLEAR TESTING EQUIPMENT.

SUBJECTS INCLUDED IN THIS COURSE WERE AS FOLLOWS:

Radiological Safety

1. Principles and practices of radiation protection
2. Leak testing procedures
3. Mathematics and calculations basic to the use and measurement of radioactivity
4. Biological effects of radiation
5. Radiocitivity measurement standardization and monitoring techniques and procedures for nuclear gauge storage and transportation
6. Accident and spillage procedures
7. General safety precautions
8. Gauge Operation
9. Field application
5. Gauge calibration

Frank D Jones

FRANK D JONES
INSTRUCTOR

CERTIFICATE #: 070524

11/09/95
DATE

WILLIAM F. TROXLER
PRESIDENT

MAR 19 1997

Willie Williams, P.E., Field Engineer
City of Detroit
City Engineering Division - DPW
Highways, Street, Sidewalks
Inspection Bureau
12225 Southfield Road
Detroit, MI 48228

Dear Mr. Williams:

Enclosed is Amendment No. 01 to your NRC Material License No. 21-24406-02 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 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
 - 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;

302395

- 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, 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.: 21-24406-02

Docket No.: 030-34061

Enclosures: 1. Amendment No. 01
2. NRC Form 313

DOCUMENT NAME: M:\03018607.CL7

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	N						
NAME	LHUETER:jaw	ZH						
DATE	03/19/97							

OFFICIAL RECORD COPY

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION

900 CADILLAC TOWER
DETROIT, MICHIGAN 48226-2873
PHONE 313-224-3949
FAX 313-224-3471

Facsimile Cover Sheet

To: MR. Loren Hueter, Materials License Review
Company: U.S. Nuclear Regulatory Commission
Phone: 630-829-9829
Fax: 630 515-1259

From: WILLIE WILLIAMS
Company: CITY ENGINEERING DIVISION -
DPW
Phone: 313 224-3915
Fax: (313) 224-3471

Date: 3/17/97
Pages including this
cover page: 12-

Comments: Request S-2 License Amendment
Amendment No. 1
License No. 21-24406-02

Transmitted by City Engineering
letter dated 3/17/97, reply to the
NRC's request for information.

SHOULD YOU HAVE ANY QUESTIONS, PLEASE CONTACT ME AT
THE NUMBER LISTED ABOVE.

The transmitted documents are intended only for the use of the individual or entity named above, and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of the documents transmitted with this transmittal sheet is strictly prohibited. If you have received this communication in error, please notify us immediately at the above telephone number.

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION

900 CADIILLAC TOWER
DETROIT, MICHIGAN 48226-2873
PHONE 313•224•3949
FAX 313•224•3471

March 17, 1997

Nuclear Materials Licensing Section
U.S. Nuclear Regulator Commission
Region III
801 Warrenville Road
Eisle, Illinois 60537-4351

Att: Mr. Loren Hueter, Materials License Reviewer

Re: Request for License Amendment
Amendment No. 1
License No. 21-24406-02

Dear Mr. Loren Hueter:

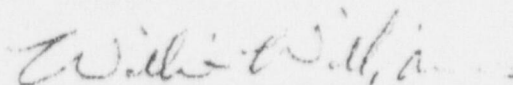
Per your phone request of 3/17/97, the following documents are provided to aid the amendment of the above reference license:

1. A copy of City Engineering's request for amendment, letter dated 3/3/97. Letters from Troxler confirming the disposition of sources to be deleted are attached to the City Engineering letter.
2. Page one of License No. 21-24406-02 is attached for reference. Sources that are to be deleted from the license are clarified on the attached page one of the license.

If additional information is required, contact Mr. Willie Williams or Mr. Bennie Elliott at 313 224-3915.

Sincerely,

SUNDAY JAIYESIMI, P.E.
City Engineer



By: Willie Williams, P.E.
Field Engineer

c: S. Jaiyesimi, DPW
W. Talley, DPW
J. Twih, DPW
B. Elliott, DPW

DENNIS W. ARCHER, MAYOR



CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING DIVISION

900 CADILLAC TOWER
DETROIT, MICHIGAN 48226-2873
PHONE 313-224-3949
FAX 313-224-3471

March 3, 1997

Nuclear Materials Licensing Section
U.S. Nuclear Regulator Commission
Region III
801 Warrenville Road
Lisle, Illinois 60537-4351

Re: Request for License Amendment
Amendment No. 1
License No. 21-24406 02
Certified Mail # P 285 856 263

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- A. Completed amendment form No. 313
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DENNIS W. ARCHER, MAYOR



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March 3, 1997
Request for License Amendment
Amendment No. 1
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- D. Troxler Training Course for the Use of Nuclear Testing Equipment, certification of completion for the RSO.
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Sincerely,

SUNDAY JAIYESIMI, P.E.
City Engineer

By: Willie Williams, P.E.
Field Engineer

cc: S. Jaiyesime, DPW
W. Talley, DPW
J. Tweh, DPW
B. Elliott, DPW

NRC FORM 313 (10-84) 10 CFR 30, 32, 33 34, 35, 36, 39 and 40		U. S. NUCLEAR REGULATORY COMMISSION		APPROVED BY OMB: NO. 2150-0120 EXPIRES 6-30-94	
APPLICATION FOR MATERIAL LICENSE				ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 8 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 (7-8 P39), 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.	
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, PENNSYLVANIA, 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, 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 76011-3064			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. LIBLE, IL 60522-4351		
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) <input type="checkbox"/> A. NEW LICENSE <input checked="" type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER <u>21-24406-02</u> <input type="checkbox"/> C. RENEWAL OF LICENSE NUMBER _____					
2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip code) City of Detroit, Dept. of Public Works City Engineering Division Highways, Streets, Sidewalks, Inspection 12225 Southfield Rd., Detroit, MI 48226					
3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED 12225 Southfield Road Detroit, Michigan 48228 See attached sheet for items 5,6,7					
4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION Willie Williams TELEPHONE NUMBER (313) 274-7915					
SUBMIT ITEMS 4-9 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 AMOUNT ENCLOSED 1300.00					
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, 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, 1948 (42 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.					
14. SIGNING OFFICER - TYPE/PRINTED NAME AND TITLE Willie Williams, Field Engineer					
15. SIGNATURE Willie Williams					
16. DATE 3/3/97					
FOR NRC USE ONLY					
TYPE OF FEE		FEE LOC		FEE CATEGORY	
APPROVED BY		AMOUNT RECEIVED		CHECK NUMBER	
DATE		COMMENTS			

Page 2 of 6
March 3, 1997

Re: Amendment to License No. 21-24406-02
Attachment for NRC Form No. 313

Item 5 Delete:

By Product Source and/or Special Nuclear Material	Chemicals and/or Physical Form	Maximum Amount Possessed at Any One Time Under This License
C. Cesium -137	C. Sealed Source (Campbell Pacific Nuclear Model CPN-131)	C. Five sources not to exceed 10 millicuries each
D. Americium-241:Be	D. Sealed source (Campbell Pacific Nuclear Model CPN-131)	D. Five sources not to exceed 30 millicuries each
E. Americium-241:Be	E. Sealed source (Troxler Dwg. No. A-102700)	E. One source not to exceed 10 millicuries each

Item 6 Delete:

- C. And D. To be used in Boart Longyear, Company, CPN Products Models A, B
(R) MC and 500 Series surface density gauges.
E. For Storage only in a Troxler 4300 Series depth moisture gauge.

Item 7 Change

- A. Paul A. Danforth, the present Radiation Safety Officer will no longer be employed by The Engineering Division of the Department of Public Works as of January 31, 1997.
- B. Dr. Johnson Tweh will become the new Radiation Safety Officer with the following Qualifications:
1. Completed the Troxler Use of Nuclear Testing Equipment Safety Course on 1/09/95, Certificate No. 070524, Frank D. Jones, instructor.
 2. Completed the Troxler Radiation Safety Officer Course on 3/21/96, Stewart Spraggins, instructor.



THE CITY OF DETROIT, MICHIGAN

FINANCE DEPARTMENT, TREASURY DIVISION
CENTRAL DISBURSEMENT ACCOUNT

3708385

9-9 / 720
42

0680798
SEQUENCE NO

DATE 02-27-97

PA's

\$300.00

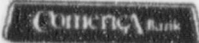
PAY TO THE ORDER OF
VENDOR NO.

NUCLEAR REGULATORY COMM

PAY EXACTLY
THE SUM OF :

DOLLARS AND

00 CENTS



TS *Myra Tennyson*

TREASURE!

0370838511 10720000961: 200001078111

CITY OF DETROIT • 120 CITY-COUNTY BLDG. • DETROIT, MICHIGAN 48226

AGENCY NO. 22 DEPARTMENT OF PUBLIC WORKS

DATE 02-27-85

REFERENCE	INVOICE NO.	AMOUNT	REFERENCE	INVOICE NO.	AMOUNT
22391236	CE0415	30000			
HOLD FOR LYNNE BRACKETT					

06A0793

~~\$300.00~~

SEQUENCE NO.

VENDOR NO.

TOTAL

Certificate of Completion

This Certifies that

JOHNSON TWEN

has successfully completed the

Troxler Radiation Safety Officer Course

conducted by the training program of

Troxler Electronic Laboratories, Inc.

Stewart Spraggins
STEWART SPRAGGINS

Instructor

3/21/96

Date

WILLIAM F. TROXLER

President

TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

WALTER JOHNSON
of

CITY OF DETROIT

HAS SUCCESSFULLY COMPLETED THE TROXLER ELECTRONIC LABORATORIES, INC.
TRAINING COURSE FOR THE USE OF NUCLEAR TESTING EQUIPMENT.

SUBJECTS INCLUDED IN THIS COURSE WERE AS FOLLOWS:

Radiological Safety

- | | |
|--|--|
| 1. Principles and practices of radiation protection. | 5. Radioactivity measurement standardization and monitoring techniques and |
| 2. Leak testing procedures. | 6. Accident and spillage procedures. |
| 3. Mathematics and calculations basic to the use and measurement of radioactivity. | 7. Procedures for the use of gauges, storage and transportation. |
| 4. Biological effects of radiation. | General safety precautions. |

- | |
|-------------------------|
| 1. Instrument theory |
| 2. Operating procedures |
| 3. Maintenance |

Gauge Operation

- | |
|---------------------------|
| 1. Instrument application |
| 2. Gauge calibration |

Frank D. Jones

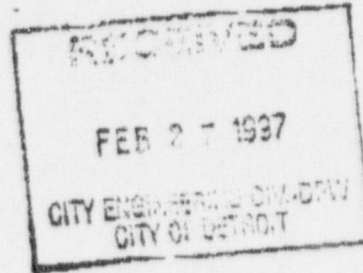
FRANK D. JONES
INSTRUCTOR

CERTIFICATE #: 070524

11/04/75
DATE

WILLIAM F. TROXLER
PRESIDENT

TROXLER



GPW
City Engineers
1225 Southfield Road
Detroit, MI 48228

Dear Sir:

TROXLER ELECTRONIC LABORATORIES, INC., acknowledges receipt of Gauge Model MC-3 Serial Number M37057661. This gauge is transferred to **TROXLER ELECTRONICS LABORATORIES, INC.** under North Carolina Radioactive Material License #032-0182-1. You should retain this letter in your files to document your disposition of the gauge.

DATE RECEIVED: 01/24/97

TROXLER ELECTRONIC LABORATORIES, INC.

Troxler Electronic Laboratories, Inc. • Troxler International, Ltd.

3006 Cornwell Road, P.O. Box 12067, Research Triangle Park, North Carolina 27709, U.S.A.
Telephone 919/549-8681 • FAX 919/549-0781



Troxler Electronic Laboratories, Inc. - Troxler International, Ltd.
3008 Cornwallis Road, P.O. Box 12057, Research Triangle Park, NC 27709 - USA
Telephone: 919/549-8661 Telefax: 919/549-0781

FAX

From: Linnie Oakley Department: Customer Service Extension: 233

To: Mr. Benny Elliott
Company: City Of Detroit
Reference: Disposal Gauges
Number of Pages Including Cover: 1

Fax # 313-224-3471
Phone # 313-224-3915

Transmission Date: 02/28/97

Message:

Dear Mr. Elliott,

Our records here at Troxler show that we are currently in possession of six (6) nuclear testing gauges as listed:

Troxler Model 3411B sn: 12277

Troxler Model 4302 sn: 155

MC2 sn: M25086334

MC2 sn: 2M25086336

MC3 sn: MM36056809

MC3 sn: M37057662

It is our understanding and intent to dispose of these gauges per your request.

Thank,

Troxler Customer Services

Linnie Oakley
2-28-97

RECEIVED

FEB 28 1997

CITY ENGINEERING DIV.-DPW
CITY OF DETROIT

NRC FORM 374
(7-94)

U.S. NUCLEAR REGULATORY COMMISSION

PAGE 1 OF 4 PAGES

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, 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 181 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.

399908

Licensee		3. License Number
1. City of Detroit Department of Public Work City Engineering Division 2. Highways, Streets, Sidewalks Inspection 12225 Southfield Road Detroit, MI 48220		21-24406-02
		4. Expiration Date
		July 31, 2001
		5. Docket or Reference No.
		030-34061
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 Source (Troxler Dwg. No. A-102112)	A. Five sources not to exceed 9 millicuries each
B. Americium-241	B. Sealed Source (Troxler Dwg. No. A-102451)	B. Five sources not to exceed 44 millicuries each
C. Cesium-137 - <i>Delete</i>	C. Sealed Source (Boart Longyear Company CPN Products CPN-131)	C. Five sources not to exceed 10 millicuries each
D. Americium-241 - <i>Delete</i>	D. Sealed Source (Boart Longyear Company CPN Products CPN-131)	D. Five sources not to exceed 50 millicuries each
E. Americium-241 - <i>Delete</i>	E. Sealed Source (Troxler Dwg. No. A-102700)	E. One source not to exceed 10 millicuries each

9. Authorized Use:

- A. and B. To be used in Troxler Model 3400 Series moisture/density gauges.
- A. To be used in Troxler Model 4640 Series surface density gauges.
- C. and D. To be used in Boart Longyear Company, CPN Products, Models A, B (R), MC and 500 Series surface density gauges.

CONVERSATION RECORD

TIME

DATE

3-17-97

☐ VISIT☐ CONFERENCE☒ TELEPHONE☐ INCOMING☒ OUTGOING

NAME OF PERSON(S) CONTACTED OR IN CONTACT

Willie Williams, P.E.
Field Engineer

ORGANIZATION (OFFICE, DEPT. ETC.)

City of Detroit, Dept. of
Public Works

TELEPHONE NO.

313-

224-3915

SUBJECT

DN 302395

SUMMARY

Mr. Williams agreed to FAX to me copies of their letters received from Troxler on 2-27-97 and 2-28-97 confirming Troxler's receipt of nuclear source to be deleted from NRC License No. 21-24406-02, which were not attached to the amendment request, contrary to what was stated in the amendment request.

Mr. Williams also confirmed that the licensee no longer possesses any of the source make and model nos. that it is requesting to be deleted from the license.

ACTION REQUIRED

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

DATE

Loren Hunter

3-17-97

ACTION TAKEN

SIGNATURE

TITLE

DATE



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION III
801 WARRENVILLE ROAD
LISLE, ILLINOIS 60532-4351

March 11, 1997

Johnson Tweh
Radiation Safety Officer
Detroit, City of
Highway/Street/Sidewalks/Insp.
12225 Southfield Road
Detroit, MI 48228

SUBJECT: ACKNOWLEDGEMENT OF CORRESPONDENCE
(Letter & Application Dated 03/03/97)

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. 302395
License No. 21-24406-01