



ENGINEERS & PLANNERS

SNYDER & ASSOCIATES

ANKENY, IA
(515) 964-2020

ATLANTIC, IA
(712) 243-6505

CEDAR RAPIDS, IA
(319) 362-9394

MARYVILLE, MO
(660) 582-8888

ST. JOSEPH, MO
(816) 364-5222

August 22, 2007

Materials Licensing Section
US Nuclear Regulatory Commission, Region III
801 Warrenville Road
Lisle, IL 60532-4351

Enclosed please find one (1) original and (1) copy of the Renewal Application for Material License (24-32019-01).

I trust this is the information you require at this time. If you have any questions or comments, please advise.

Sincerely,

Snyder & Associates

Larry Bradshaw, Inspector

LB:ht

Encs.

RECEIVED SEP 20 2007

NRC FORM 313 (5-1997) 10 CFR 30, 32, 33 34, 35, 36, 39 and 40	U. S. NUCLEAR REGULATORY COMMISSION	APPROVED BY OMB: NO. 3150-0120 Estimated burden per response to comply with this request: 7 hours. Submittal of the application requires the applicant is qualified and that adequate procedure for public health and safety. Forward comments regarding information and Records Management Branch (T-6 Regulatory Commission, Washington, DC 20555-0001, Reduction Project (3150-0120), Office of Management, Washington, DC 20503. NRC may not conduct or sponsor information collection if it does not have a currently valid OMB control number.
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.		
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: ATLANTA FEDERAL CENTER U. S. NUCLEAR REGULATORY COMMISSION, REGION II 81 FORSYTH STREET, S.W., SUITE 23T85 ATLANTA, GEORGIA 30303-3415		
IF YOU ARE LOCATED IN: ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, 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, LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, WASHINGTON, OR WYOMING, SEND APPLICATIONS TO: NUCLEAR MATERIALS LICENSING SECTION U. S. NUCLEAR REGULATORY COMMISSION, REGION IV 611 RYAN PLAZA DRIVE, SUITE 400 ARLINGTON, TX 76011-8054		
PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE 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 type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER _____ <input checked="" type="checkbox"/> C. RENEWAL OF LICENSE NUMBER <u>24-32019-01</u>	2 NAME AND MAILING ADDRESS OF APPLICANT (Include Zip code) Snyder & Associates 123 East Fourth Maryville, MO 64468	
3 ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED Please See Attachment		4 NAME OF PERSON TO BE CONTACTED APPLICATION Larry Bradshaw TELEPHONE NUMBER 660.582-8888
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 RI	
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 \$ _____	
13 CERTIFICATION (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION 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 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 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 REPRISAL ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.		

Item 3. Licensed (radioactive) material(s) shall be used or possessed at the licensee's facilities located at:

212 North Buchanan Street
Maryville, MO 64468 and

4730 Frederick Avenue
St. Joseph, MO 64501

And temporary job sites of the licensee where the U.S. Nuclear Regulatory Commission (NRC) maintains jurisdiction of the regulation of licensed (radioactive) materials.

Item 5. Attached is a schedule of radioactive material to be possessed under the authorization of the license applied for herein.

Item 6. Please See Attachment

Item 7. Please See Attachment

Item 8. Please See Attachment

Item 9. Please See Attachment

Item 10. Please See Attachment

Item 11. Please See Attachment

Item 12. Please See Attachment

ITEM 5 – RADIOACTIVE MATERIAL

SCHEDULE OF RADIOACTIVE MATERIAL

a. Byproduct, Source and/or Special Nuclear Material	b. Chemical and/or Physical Form	c. Maximum Amount to be Possessed at Any One Time
Cesium-137	Sealed Sources (Troxler Drawing No. A-102112)	No single source to exceed 10 millicuries (nominal)
Americium-241	Sealed Sources (Troxler Drawing No. A-102451)	No single source to exceed 50 millicuries (nominal)

AUTHORIZED USE:

For use in Troxler Model 3400 Series Moisture/Density Gauge(s) to measure moisture content and/or density of construction materials (Sealed Source and Device Registry Nos. NC-646-D-130-S & NC-646-D-138-S).

ITEM 6 -- PURPOSES FOR WHICH LICENSED MATERIAL WILL BE USED

For use only for the purposes for which the device(s) were designed (for measurement of construction materials) and in accordance with the manufacturer's recommendations for use.

Item 7. INDIVIDUAL RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE

The Radiation Safety Officer (RSO) for the license applied for herein shall be Mr. Larry (JR) Bradshaw, Inspector. (A copy of Mr. Bradshaw's qualifications - resume, radiation safety training certificate – are attached.)

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

Before using licensed materials, authorized users will have successfully completed one of the training course described in Criteria in the section entitled "Training for Individuals Working In or Frequenting Restricted Areas" in NUREG-1556, Vol. 1, Rev 1, dated November 2001.

Item 10. RADIATION SAFETY PROGRAM

The radiation safety program shall encompass the following:

Audit Program – The applicant is not required to and should not, submit its audit program to NRC for review during the licensing phase.

Termination of Activities – The applicant is not required to submit a response to the termination of activities section during the initial application. However, when the license expires when the licensee ceases operation, NRC Form 314 must be submitted.

Survey Instruments – We will either possess and use, or have access to and use, a radiation survey meter that meets the Criteria in the section entitled "Radiation Safety program – Instruments" in NUREG-1556, Vol. 1, Rev. 1, dated November 2001.

Material Receipt and Accountability – Physical inventories will be conducted at intervals not to exceed 6 months, to account for all sealed sources and devices received and possessed under the license.

Occupational Dosimetry – Either we will maintain, for inspection by NRC, documentation demonstrating that unmonitored individuals are not likely to receive a radiation dose in excess of 10 percent of the allowable limits in 10 CFR Part 20, or we will provide dosimetry processed and evaluated by an NVLAP – approved processor that is exchanged at a frequency recommended by the processor.

Public Dose – The applicant is not required to submit a response to the public dose section during the licensing phase. The matter will be examined during an inspection.

Operating and Emergency Procedures – We will implement and maintain the operating and emergency procedures in Appendix H of NUREG-1556, Vol. 1, Rev. 1, dated November 2001, and provided copies of these procedures to all gauge users and at each job site.

OR

Operating and emergency procedures will be developed, implemented, and maintained and will meet the criteria in the section entitled “Radiation Safety Program – Operating and Emergency Procedures: in NUREG-1556, Vol. 1, Rev. 1, dated November 2001.

Leak Test – Leak tests will be performed at intervals approved by NRC or an Agreement State and specified in the Sealed Source and Device Registration Sheet. Leak tests will be performed by an organization authorized by NRC or an Agreement State to provide leak testing services for other licensees or using a leak test kit supplies by an organization authorized by NRC or an Agreement State to provide leak test kits to other licensees and according to the kit supplier’s instructions.

Maintenance – Routine Cleaning and Lubrication

We will implement and maintain procedures for routine maintenance of our gauges according to each manufacturer’s recommendations and instructions.

Non-Routine Maintenance

We will send the gauge to the manufacturer or other person authorized by NRC or an Agreement State to perform non-routine maintenance or repair operations that require the removal of the source or source rod from the gauge.

Transportation – The applicant is not required to submit its response to transportation during the licensing process. However, this issue will be reviewed during inspection.

Item 11. WASTE MANAGEMENT – GAUGE DISPOSAL AND TRANSFER

The applicant is not required to submit a response to waste management during the licensing process. However, the licensee should develop, implement, and maintain gauge transfer and disposal procedures in its radiation protection program.

TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

LARRY F. BRADSHAW

of

MIDLAND ENGINEERING, INC.

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. Radioactivity measurement standardization and monitoring techniques and instruments.
6. Accident and incident procedures.
7. Procedures for nuclear gauge storage and transportation.
8. General safety precautions.

Gauge Operation

1. Instrument theory
2. Operating procedures
3. Maintenance
4. Field application
5. Gauge calibration

CERTIFICATE #: 087410

ROBERT WILSON
INSTRUCTOR

7/14/99

DATE

WILLIAM F. TROXLER

PRESIDENT

Certificate of Completion

This certifies that

LARRY BRADSHAW

has successfully completed the

Troxler Radiation Safety Officer Course

conducted by the training department of

Troxler Electronic Laboratories, Inc.

GREG FARNEN

Instructor

01/24/02

Date

William F. Troxler, Jr.

President



LARRY F. BRADSHAW
Inspector



SNYDER & ASSOCIATES

Education:

Maryville R-II High School 1979-1983

Ten week survey course - Fort Sill Oklahoma, Dec. 1987

Larry is our Missouri office Inspection Group leader.

General project experience includes the following:

Streets and Subgrade – City of Maryville Municipal Engineers. On a yearly basis this project includes subgrade and concrete testing as well as water and sewer line testing.

Sewage Collection – Recent projects include Inspection of complete sewer systems for the City of Westboro and Parnell which entailed air testing, infiltration testing for sewers, lift station startup and lagoon prefill and testing. Sewage Collection and Waste Treatment Facility for the City of Gallatin, MO

Water Supply – Projects include pressure testing and disinfection, testing of numerous watermain for the City of Maryville and Bethany, Missouri and Clarinda, Iowa and public water supply districts. Pipe installation thrust blocking and checking fitting connections are also part of his responsibilities. Larry is currently the resident inspector for Nodaway County Public Water Supply District No. 1. Phase 1 includes 67 miles of 8" to 2" waterline, booster pump station and 150,000 gallon stand pipe. The system also includes various air relief valves and gate valves. His duties include inspection of installation, waterline testing observation and daily documentation. He performed all inspection on the structural, mechanical and electrical systems associated with the booster pump and stand pipe construction.

Building Construction – Larry has worked on checking footing allowable bearing pressure as well as mortar testing for masonry construction.

Grading Projects – Compaction testing on major grading and landfill projects are part of Larry's experience. He has worked on a landfill closure project, for the City of Maryville, with testing completed on each lift on a 100' grid throughout the project site.

Special Education:

Certified in the following inspection and testing fields:

- Level I Aggregate
- Level II Aggregate
- Level I ACC
- Level I PCC
- Level II PCC
- Troxler Moisture-Density Training/7-14-99 to Present
- Radiation Safety Offices/1-24-02 to Present
- Field Inspection Seminars

Professional Experience:

1998-Present	Inspector responsible for all types of civil engineering projects including, but not limited to, bridges, streets, waterlines, sewer lines and storm sewers. Also responsible for material testing laboratory and testing reports.
1997-1998	Survey crew rod man and instrument man.
1982-1988	Field Surveyor – Missouri National Guard.

Major Responsibilities:

Larry has been involved in all aspects of civil engineering construction in an Inspection and Material Testing capacity.

He has over 10 years experience in the construction and surveying fields and his knowledge has led to many money and time saving solutions on almost every project. His strengths include problem solving and communication with contractors and clients.

NRC FORM 313

(5-1997)

10 CFR 30, 32, 33

34, 35, 36, 39 and 40

U. S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120

APPLICATION FOR MATERIAL LICENSE

Estimated burden per response to comply with this request: 7 hours. Submittal of the application is necessary if the applicant is qualified and that adequate procedures for public health and safety. Forward comments regarding information and Records Management Branch (7-6 Regulatory Commission, Washington, DC 20555-0001. Reduction Project (3150-0120). Office of Management, Washington, DC 20503. NRC may not conduct or sponsor an information collection if it is not required to respond to, an information collection 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, 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:

ATLANTA FEDERAL CENTER
U. S. NUCLEAR REGULATORY COMMISSION, REGION II
61 FORSYTH STREET, S.W., SUITE 23T85
ATLANTA, GEORGIA 30303-3415

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO,
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,
LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH
OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA
WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U. S. NUCLEAR REGULATORY COMMISSION REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 76011-8054

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE 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

C. RENEWAL OF LICENSE NUMBER 24-32019-01

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

Snyder & Associates
123 East Fourth
Maryville, MO 64468

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

Please See Attachment

4. NAME OF PERSON TO BE CONTACTED FOR APPLICATION

Larry Bradshaw

TELEPHONE NUMBER

660.582-8888

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 RE

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 \$

13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION 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 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 CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1946 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRISAL ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

Item 3. Licensed (radioactive) material(s) shall be used or possessed at the licensee's facilities located at:

212 North Buchanan Street
Maryville, MO 64468 and

4730 Frederick Avenue
St. Joseph, MO 64501

And temporary job sites of the licensee where the U.S. Nuclear Regulatory Commission (NRC) maintains jurisdiction of the regulation of licensed (radioactive) materials.

Item 5. Attached is a schedule of radioactive material to be possessed under the authorization of the license applied for herein.

Item 6. Please See Attachment

Item 7. Please See Attachment

Item 8. Please See Attachment

Item 9. Please See Attachment

Item 10. Please See Attachment

Item 11. Please See Attachment

Item 12. Please See Attachment

ITEM 5 -- RADIOACTIVE MATERIAL

SCHEDULE OF RADIOACTIVE MATERIAL

a. Byproduct, Source and/or Special Nuclear Material	b. Chemical and/or Physical Form	c. Maximum Amount to be Possessed at Any One Time
Cesium-137	Sealed Sources (Troxler Drawing No. A-102112)	No single source to exceed 10 millicuries (nominal)
Americium-241	Sealed Sources (Troxler Drawing No. A-102451)	No single source to exceed 50 millicuries (nominal)

AUTHORIZED USE:

For use in Troxler Model 3400 Series Moisture/Density Gauge(s) to measure moisture content and/or density of construction materials (Sealed Source and Device Registry Nos. NC-646-D-130-S & NC-646-D-138-S).

ITEM 6 -- PURPOSES FOR WHICH LICENSED MATERIAL WILL BE USED

For use only for the purposes for which the device(s) were designed (for measurement of construction materials) and in accordance with the manufacturer's recommendations for use.

Item 7. INDIVIDUAL RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE

The Radiation Safety Officer (RSO) for the license applied for herein shall be Mr. Larry (JR) Bradshaw, Inspector. (A copy of Mr. Bradshaw's qualifications - resume, radiation safety training certificate – are attached.)

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

Before using licensed materials, authorized users will have successfully completed one of the training course described in Criteria in the section entitled "Training for Individuals Working In or Frequenting Restricted Areas" in NUREG-1556, Vol. 1, Rev 1, dated November 2001.

Item 10. RADIATION SAFETY PROGRAM

The radiation safety program shall encompass the following:

Audit Program – The applicant is not required to and should not, submit its audit program to NRC for review during the licensing phase.

Termination of Activities – The applicant is not required to submit a response to the termination of activities section during the initial application. However, when the license expires when the licensee ceases operation, NRC Form 314 must be submitted.

Survey Instruments – We will either possess and use, or have access to and use, a radiation survey meter that meets the Criteria in the section entitled "Radiation Safety program – Instruments" in NUREG-1556, Vol. 1, Rev. 1, dated November 2001.

Material Receipt and Accountability – Physical inventories will be conducted at intervals not to exceed 6 months, to account for all sealed sources and devices received and possessed under the license.

Occupational Dosimetry – Either we will maintain, for inspection by NRC, documentation demonstrating that unmonitored individuals are not likely to receive a radiation dose in excess of 10 percent of the allowable limits in 10 CFR Part 20, or we will provide dosimetry processed and evaluated by an NVLAP – approved processor that is exchanged at a frequency recommended by the processor.

Public Dose – The applicant is not required to submit a response to the public dose section during the licensing phase. The matter will be examined during an inspection.

Operating and Emergency Procedures – We will implement and maintain the operating and emergency procedures in Appendix H of NUREG-1556, Vol. 1, Rev. 1, dated November 2001, and provided copies of these procedures to all gauge users and at each job site.

OR

Operating and emergency procedures will be developed, implemented, and maintained and will meet the criteria in the section entitled “Radiation Safety Program – Operating and Emergency Procedures: in NUREG-1556, Vol. 1, Rev. 1, dated November 2001.

Leak Test – Leak tests will be performed at intervals approved by NRC or an Agreement State and specified in the Sealed Source and Device Registration Sheet. Leak tests will be performed by an organization authorized by NRC or an Agreement State to provide leak testing services for other licensees or using a leak test kit supplies by an organization authorized by NRC or an Agreement State to provide leak test kits to other licensees and according to the kit supplier’s instructions.

Maintenance – Routine Cleaning and Lubrication

We will implement and maintain procedures for routine maintenance of our gauges according to each manufacturer’s recommendations and instructions.

Non-Routine Maintenance

We will send the gauge to the manufacturer or other person authorized by NRC or an Agreement State to perform non-routine maintenance or repair operations that require the removal of the source or source rod from the gauge.

Transportation – The applicant is not required to submit its response to transportation during the licensing process. However, this issue will be reviewed during inspection.

Item 11.

WASTE MANAGEMENT – GAUGE DISPOSAL AND TRANSFER

The applicant is not required to submit a response to waste management during the licensing process. However, the licensee should develop, implement, and maintain gauge transfer and disposal procedures in its radiation protection program.

TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

LARRY F. BRADSHAW

of

MIDLAND ENGINEERING, INC.

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. Radioactivity measurement standardization and monitoring techniques and instruments.
6. Accident and incident procedures.
7. Procedures for nuclear gauge storage and transportation.
8. General safety precautions.

Gauge Operation

1. Instrument theory
2. Operating procedures
3. Maintenance
4. Field application
5. Gauge calibration

CERTIFICATE #: 087410

ROBERT MILSON
INSTRUCTOR

7/14/99

DATE

WILLIAM F. TROXLER

PRESIDENT

Certificate of Completion

This certifies that

LARRY BRADSHAW

has successfully completed the

Troxler Radiation Safety Officer Course

conducted by the training department of

Troxler Electronic Laboratories, Inc.

GREG FARNEN

Instructor

01/24/02

Date

William F. Troxler, Jr.

President



LARRY F. BRADSHAW
Inspector



SNYDER & ASSOCIATES

Education:

Maryville R-II High School 1979-1983

Ten week survey course - Fort Sill Oklahoma, Dec. 1987

Special Education:

Certified in the following inspection and testing fields:

- Level I Aggregate
- Level II Aggregate
- Level I ACC
- Level I PCC
- Level II PCC
- Troxler Moisture-Density Training/7-14-99 to Present
- Radiation Safety Offices/1-24-02 to Present
- Field Inspection Seminars

Professional Experience:

1998-Present	Inspector responsible for all types of civil engineering projects including, but not limited to, bridges, streets, waterlines, sewer lines and storm sewers. Also responsible for material testing laboratory and testing reports.
1997-1998	Survey crew rod man and instrument man.
1982-1988	Field Surveyor – Missouri National Guard.

Major Responsibilities:

Larry has been involved in all aspects of civil engineering construction in an Inspection and Material Testing capacity.

He has over 10 years experience in the construction and surveying fields and his knowledge has led to many money and time saving solutions on almost every project. His strengths include problem solving and communication with contractors and clients.

Larry is our Missouri office Inspection Group leader.

General project experience includes the following:

Streets and Subgrade – City of Maryville Municipal Engineers. On a yearly basis this project includes subgrade and concrete testing as well as water and sewer line testing.

Sewage Collection – Recent projects include Inspection of complete sewer systems for the City of Westboro and Parnell which entailed air testing, infiltration testing for sewers, lift station startup and lagoon prefill and testing. Sewage Collection and Waste Treatment Facility for the City of Gallatin, MO

Water Supply – Projects include pressure testing and disinfection, testing of numerous water mains for the City of Maryville and Bethany, Missouri and Clarinda, Iowa and public water supply districts. Pipe installation thrust blocking and checking fitting connections are also part of his responsibilities. Larry is currently the resident inspector for Nodaway County Public Water Supply District No. 1. Phase 1 includes 67 miles of 8" to 2" waterline, booster pump station and 150,000 gallon stand pipe. The system also includes various air relief valves and gate valves. His duties include inspection of installation, waterline testing observation and daily documentation. He performed all inspection on the structural, mechanical and electrical systems associated with the booster pump and stand pipe construction.

Building Construction – Larry has worked on checking footing allowable bearing pressure as well as mortar testing for masonry construction.

Grading Projects – Compaction testing on major grading and landfill projects are part of Larry's experience. He has worked on a landfill closure project, for the City of Maryville, with testing completed on each lift on a 100' grid throughout the project site.



0000



60532

U.S. POSTAGE
PAID
MARYVILLE, MO
64468
SEP 17, 07
AMOUNT

\$1.48
00055239-08

SNYDER & ASSOCIATES

Engineers & Planners, LLC

123 East Fourth

Maryville, MO 64468

terials Licensing Section
US Nuclear Regulatory
Commission, Region III
~~2443~~ Warrenville Road
Lisle, IL 60532-4351

2443

