

NRC FORM 313  
(4-2008)  
10 CFR 30, 32, 33,  
34, 35, 36, 38, and 40

## U.S. NUCLEAR REGULATORY COMMISSION

## APPLICATION FOR MATERIALS LICENSE

APPROVED BY OMB: NO. 3150-0120

EXPIRES: 10/31/2008

Estimated burden per response to comply with this mandatory collection request: 4 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. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F63), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to [infocollections@nrc.gov](mailto:infocollections@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NEDB-10202, (3150-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

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:

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA. SEND APPLICATIONS TO:

LICENSING ASSISTANCE TEAM  
DIVISION OF NUCLEAR MATERIALS SAFETY  
U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19408-1415

IF YOU ARE LOCATED IN:

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

MATERIALS LICENSING BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
2443 WARREN ROAD, SUITE 210  
Lisle, IL 60532-4352

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MISSISSIPPI, 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 BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
612 E. LAMAR BOULEVARD, SUITE 400  
ARLINGTON, TX 76011-4123

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 checked="" type="checkbox"/> A. NEW LICENSE <input type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER _____ <input type="checkbox"/> C. RENEWAL OF LICENSE NUMBER _____		2. NAME AND MAILING ADDRESS OF APPLICANT (include ZIP code) <b>Nova Engineering &amp; Environmental</b> <b>4320 Viewridge Avenue, Suite D</b> <b>San Diego, California 92123</b>	
3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED <b>4 Mark Road, Suite A</b> <b>Kenilworth, New Jersey 07033</b> <b>Temporary job sites anywhere</b> <b>the NRC maintains jurisdiction</b>		4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION <b>Paul J. DeRisi</b> TELEPHONE NUMBER <b>(658) 292-7575</b>	
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. LICENSE FEES (See 10 CFR 170 and Section 170.31) FEE CATEGORY <b>3P</b> AMOUNT ENCLOSURE <b>\$ 1,300</b>	
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, 38, 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 <b>Paul J. DeRisi, Radiation Safety Officer</b>		SIGNATURE  DATE <b>12/11/08</b>	
<b>FOR NRC USE ONLY</b>			
TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED
APPROVED BY	DATE	CHECK NUMBER	COMMENTS
		<b>143090</b>	

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NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH  
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LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH  
DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS,  
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A. NEW LICENSE



B. AMENDMENT TO LICENSE NUMBER \_\_\_\_\_



C. RENEWAL OF LICENSE NUMBER \_\_\_\_\_

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

**Nova Engineering & Environmental**  
**4320 Viewridge Avenue, Suite D**  
**San Diego, California 92123**

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

**4 Mark Road, Suite A**  
**Kenilworth, New Jersey 07033**  
**Temporary job sites anywhere**  
**the NRC maintains jurisdiction**

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

**Paul J. DeRisi**

TELEPHONE NUMBER

**(858) 292-7575**

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. LICENSE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY **3P**AMOUNT  
ENCLOSED**\$ 1,300**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  
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WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 82 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

**Paul J. DeRisi, Radiation Safety Officer**

SIGNATURE

DATE

## FOR NRC USE ONLY

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

RECEIVED  
700 6-9 AM 10:33

**Item 5: Radioactive Material – Sealed Sources and Devices**

Device	Element and mass number	Chemical and/or physical form	Maximum amount that will be possessed at one time
<b>A</b>	Cesium - 137	Sealed source, Troxler Dwg. A-102112	No single source to exceed 9 mCi
	Americium - 241	Sealed source, Troxler Dwg. A-102451	No single source to exceed 44 mCi
<b>B</b>	Cesium - 137	Sealed source, CPN #131	No single source to exceed 10 mCi
	Americium - 241	Sealed source, CPN #131	No single source to exceed 50 mCi
<b>C</b>	Cesium - 137	Sealed source, Troxler Dwg. A-102112	No single source to exceed 9 mCi

### Item 6: Purpose for Which Licensed Material Will Be Used

Device	Purpose for which licensed material will be used
A	To be used as components of Troxler portable gauges, Model 3400 Series, for measurement of physical properties of materials
B	To be used as components of CPN Corporation portable gauges, Model MC Series, for measurement of physical properties of materials
C	To be used as components of Troxler portable gauges, Model 4640 Series, for measurement of physical properties of materials

## **Item 7: Individual(s) Responsible for Radiation Safety Program and Their Training**

Before obtaining licensed materials, the proposed RSO will have successfully completed one of the training courses described in the section entitled "Individual(s) Responsible for Radiation Safety Program and Their Training Experience – Radiation Safety Officer" in NUREG-1556, Vol. 1, Rev. 1, dated November 2001.

### **Proposed Responsible Individuals:**

Radiation Safety Officer (RSO): Paul J. DeRisi

Assistant Radiation Safety Officer (ARSO): Tom Chapman

### **RSO Training and Experience:**

#### **Training:**

Successfully completed CPN Corporation, Radiation Safety and Use of Nuclear Gauges Training Course; completed June 2003

Successfully completed CPN Corporation, Radiation Safety Officer Training Seminar; completed February 2006

Bachelor of Science, Geologic Sciences, 2002  
San Diego State University, San Diego, California

Professional Geologist, PG #8457  
State of California

#### **Experience:**

May 2003 to November 2004 Pacific Soils Engineering, Inc.  
Engineering Geology Associate – Perform geotechnical investigations and testing of soils and construction materials.

November 2004 to May 2008 GeoTek, Inc.  
Project Geologist – Perform geotechnical investigations and testing of soils and construction materials.

May 2008 to Present Nova Engineering & Environmental, LLC  
Project Geologist – Perform geotechnical investigations and testing of soils and construction materials.

No 2295

# Certificate Of Completion

This is to certify that Paul J. DeRisi has completed the

CPN® Radiation Safety Officer Seminar for Nuclear Gauges,

held this 8<sup>th</sup> day of February 2006 in the

City of San Clemente State of CA by CPN International.

CPN International, Inc.  
2830 Howe Road  
Martinez, CA 94553 USA  
Phone: (925) 228-9770  
Fax: (925) 228-3183



Charles D. Cherry

Douglas Carter

INSTRUCTOR  
RADIATION SAFETY OFFICER

Nº 40740

# Certificate of Completion

This is to certify that Paul DeRisi has completed the  
basic CPN® training course on Radiation Safety and Use of Nuclear Gauges,  
held this 18th day of June 2003 in the  
City of San Clemente State of CA by CPN International.

CPN International, Inc.  
2830 Howe Road  
Martinez, CA 94553 USA  
Phone: (925) 228-9770  
Fax: (925) 228-3183



Charles D. Cherry  
INSTRUCTOR  
Douglas Carter  
RADIATION SAFETY OFFICER



North East Technical Services, Inc.

Certifies that

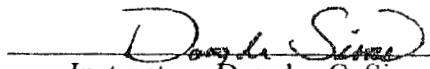
**Tom Chapman**

Has successfully completed North East Technical Services, Inc. Radiation Safety Officer Training Course for Nuclear Gauges, in accordance with Nuclear Regulatory Commission and current US DOT regulations.

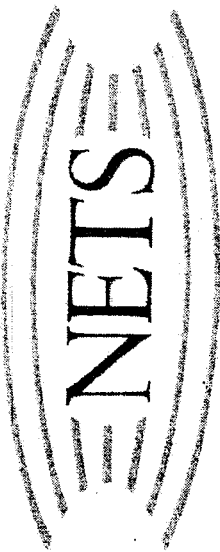
Training materials are maintained at:

North East Technical Services, Inc.  
75 Aileron Court, Suite 4  
Westminster, MD 21157

Date of Completion: April 30, 2008

  
Instructor: Douglas C. Sims





**North East Technical Services, Inc.**

Certifies that

**Tom Chapman**

Has successfully completed the required radiological safety training for use of nuclear moisture density gauge in accordance with regulations set forth by the Maryland Department of the Environment and the Nuclear Regulatory Commission. Also has successfully completed training in accordance with policies set forth by the following rules and regulations governing Hazmat training requirements: 49CFR subpart H and IATA 1.5.2. Person listed above has demonstrated a thorough understanding of all aspects needed for transportation and specific emphasis was placed on portable nuclear density gauges. A closed book examination was administered and a passing score was achieved. Subjects included in this course were as follows: Radiological Safety – principles and practices of radiation protection, leak-testing procedures, measurement of radioactivity, biological effects of radiation, incident, storage, ALARA and emergency procedures. Class meets Agreement State and NRC regulations in accordance with license number MD-13-020-01.

Instructor – Douglas C. Sims

Date of Training: April 30, 2008

## **Item 8 – Training for Individuals Working In or Frequenting Restricted Areas**

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

## **Item 9 – Facilities and Equipment**

No information needs to be submitted in response to this item; key issues are addressed under “Radiation Safety Program – Public Dose” and “Radiation Safety Program – Operating and Emergency Procedures.”

**Item 10 – Radiation Safety Program, 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.

**Item 10 – Radiation Safety Program, 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.

**Item 10 – Radiation Safety Program, 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.

**Item 10 – Radiation Safety Program, Operating and Emergency Procedures**

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.

**Item 10 – Radiation Safety Program, Leak Test**

Leak tests will be performed at intervals approved by NRC or an Agreement State and will be specified in the SSDR 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 supplied 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.

**Item 10 – Radiation Safety Program, Maintenance**

Routine Cleaning and Lubrication:

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

## **Item 10 – Radiation Safety Program, Maintenance (continued)**

### **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.

This is to acknowledge the receipt of your letter/application dated

12/11/08, and to inform you that the initial processing which includes an administrative review has been performed.

☒ New License Application (03037885)  
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

☐ Please provide to this office within 30 days of your receipt of this card

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A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 143090.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.