

March 22, 2006

NMSB3

Mr. Sattar Lodhi, PH. D. – Health Physicist  
U.S. Nuclear Regulatory Commission – Region I  
475 Allendale Rd.  
King of Prussia, PA 19406

RECEIVED  
REGION I  
2006 MAR 27 AM 10:34

Re: Amendment to NRC License  
License No. 29-27857-01  
Docket No. 030-29302  
Expiration Date: January 31, 2011

Dear Mr. Lodhi,

This letter is to request that Mr. Mario R. Marra replace Mr. Michael O'Donnell as the radiation Safety Officer on our referenced radioactive material license. Mr. Marra has previously served as SITE Blauvelt's Radiation Safety Officer from August 28, 1998 until October 17, 2003, when he was replaced by Mr. O'Donnell. For your convenience, we have attached a copy of our material license which indicated that Mr. Marra was the RSO as well as Mr. Marra's training, experience and supporting documents.

Thank you in advance for your cooperation regarding this matter. If you require additional information please feel free to call.

Sincerely,

SITE-Blauvelt Engineers, Inc.



Michael J. O'Donnell, RSO  
Lab Manager

cc: Douglas W. Massih – (SITE)  
Herman W. Lloyd – (SITE)  
Charles E. Malson – (SITE)  
Mario R. Marra – (SITE)

138636

NMSB/REG I MATERIALS-002



## MARIO MARRA

Director, Development, Geotechnical and Construction Services

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### EDUCATION

B.S., Civil Engineering, 1988, Drexel University

### REGISTRATIONS

NICET III - Transportation Engineering Technology/ Highway Construction (#78660)

State of Delaware, Department of Natural Resources and Environmental Control,

"Erosion/Sediment Control and Stormwater Management Certification"

ACI Grade I - Concrete Field Technician

CPN Certified - Radiation Safety Officer (RSO)

Troxler Certified - Radiation Safety Officer (RSO)

CPN Certified Nuclear Density Gauge Operator

Troxler Certified Nuclear Density Gauge Operator

### MEMBERSHIPS

Member, American Society of Civil Engineers

Member, International Society for Soil Mechanics and Geotechnical Engineering

Member, American Society of Highway Engineers

Member, Geo Institute

Member, Construction Institute

### EXPERIENCE

Mr. Marra has accumulated more than seventeen (17) years of experience in the field of construction inspection including earthwork, asphalt pavement construction, reinforced concrete, shallow and deep foundations, pavement subgrade preparation, drainage installation and various other areas related to commercial and public building construction, highways and bridges. He is experienced with ASTM, ACI and AASHTO testing procedures including nuclear field density tests, field slump and air entrainment testing, pile load testing, floor flatness and floor levelness verification, etc. and has performed asphalt and concrete batch plant inspection for material compliance.

In his current role as SITE-Blauvelt's Director of Business Development, he is charged with developing new business leads, facilitating proposal request and maintaining client relationships for the Geotechnical Group. The Geotechnical Group is comprised of the Subsurface Investigation (Drilling) Department, the Soils and Concrete Laboratories, the Geotechnical Engineering Department as well as the Commercial Construction Department. In addition, Mr. Marra is utilized as a project consultant for problematic field conditions for all of the building and site development-related projects for which the firm provides construction inspection services.

Examples of his relevant experience include the following assignments:

- **Several Warehouse/Office Type Structures, Cranbury, NJ:** Construction Inspector involved in monitoring the construction of concrete floor slabs for three (3) buildings that encompassed approximately 260,000 total sq ft. Duties included verifying proper subgrade preparation, monitoring slab thickness by way of dry run and wet depth checks, concrete field testing (slump and air-entrainment), concrete cylinder specimen preparation, concrete batch plant inspections and the testing of floor flatness and levelness using a DIPSTICK floor profiler.
- **Pennsylvania Convention Center, Philadelphia, PA:** Chief Inspector during the construction of more than 200 caissons for this \$428 million project. Major responsibilities included observing the drilling of caisson shafts, completion of caisson logs, evaluating the quality of founding bedrock, observation of concrete pours, field testing of concrete (air-entrainment, slump, preparation of test cylinders, unit weight), and progress report preparation.
- **Commerce Square - Phase II, Philadelphia, PA:** Construction Inspector during the construction of 12 caissons for this 42-story office tower. Aspects of construction with which he was involved included observing the drilling of caisson shafts, completion of caisson logs, evaluating the quality of rock at caisson bottoms, taking of shaft measurements, observation of concrete pours, field testing of concrete (air-entrainment, slump, preparation of test cylinders, unit weight), and progress report preparation.

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**SITE-BLAUVELT**

<http://www.site-blauvelt.com>



- **Marriott Convention Center Hotel, Philadelphia, PA:** Chief Inspector during the construction of more than 100 caissons. Major responsibilities included observing the drilling of caisson shafts, completion of caisson logs, evaluating the quality of founding bedrock, observation of concrete pours, field testing of concrete (air-entrainment, slump, preparation of test cylinders, unit weight), and progress report preparation.
- **Community Medical Center Expansion, Toms River, NJ:** Construction Inspector during construction of this expansion project which included foundation subgrade preparation, soil compaction (using the nuclear method), placement of reinforcing steel for concrete, concrete pours, and field testing of concrete (slump, air-entrainment, unit weight).
- **Ambulatory Care Facility, Children's Hospital of Philadelphia, Philadelphia, PA:** Construction Inspector responsible for inspecting the construction of interior roadwork, structural steel erection, cast-in-place concrete, sprayed-on fireproofing, and earthwork.
- **Frankford Hospital Parking Garage, Philadelphia, PA:** Assigned as Chief Inspector during the construction of more than 80 caissons. Major responsibilities included observing the drilling of caisson shafts, completion of caisson logs, evaluating the quality of founding bedrock, observation of concrete pours, field testing of concrete (air-entrainment, slump, preparation of test cylinders, unit weight), and progress report preparation.
- **Hamilton Mall Sears Store, Hamilton, NJ:** Construction Inspector responsible for monitoring the completion of all areas of construction on the project. Specific duties included inspection of soil compaction for structural load bearing fill, backfill of utility lines, structural steel, structural concrete, sprayed-on fireproofing, pavement subgrade preparation, asphalt paving, and concrete curbing.
- **S.R. 0132, Section S28, Bucks County, PA:** Assigned as a Construction Inspector (TCI) to monitor various activities associated with this \$4.5 million reconstruction project. Employing staged construction, the project involved the rehabilitation of a bridge structure (deck replacement, parapets and bearings), full-depth pavement reconstruction (10" of concrete base course, 2.5" of bituminous binder course and 1.5" of wearing course), curb construction, utility work, drainage work (manholes, inlets, pipe culverts, base drains), driveways, guiderail, signalization and sign placement (including mast arms).
- **New Jersey Turnpike Authority, Contract No. R-1054, Corrections of Differential Settlements to Safetywalk Extensions, Approach Slabs and Abutments - Milepost 21.0 to Milepost 68.0:** Construction Inspector responsible for monitoring the completion of such rehabilitative work as grouting of voids discovered around approach slabs, wingwalls and abutment foundations, removal of concrete safetywalks and curbs and their replacement, installation of slope drains, rehabilitation of drainage structures, and all necessary maintenance and protection of traffic.
- **New Jersey Turnpike Authority, Contract No. R-1132, Corrections of Differential Settlements to Safetywalk Extensions, Approach Slabs and Abutments, Burlington Country, NJ:** Resident Engineer charged with assuming the role of interface between the Turnpike Authority and Contractor during which time he was responsible for construction management and all construction details for this rehabilitation contract. Specific duties included conducting a preconstruction conference, monitoring and documenting construction, preparation of pay estimates and change orders, approval of Contractor's construction schedules and shop drawings, obtaining approvals for lane closings, arranging for laboratory materials testing, and all written correspondence to and from the Contractor.
- **S.R. 0063, Section M07, Montgomery County, PA:** Construction Inspector (TCI) assigned to monitor activities related to the reconstruction of the roadway shoulder area. As a member of our two-man inspection team he was responsible for removal and relocation of the stormwater drainage system, piping, curb construction, guide rail installation, and pavement overlay of milled surfaces.
- **DelDOT North District Open-End Contract:** Assigned as a Resident Engineer, he was charged with overseeing a five (5) member staff of inspectors during the completion of miscellaneous work associated with the rehabilitation of various secondary roads throughout the District. Duties involved personnel management; acting as a liaison between DelDOT and the contractor, utility coordination, preparation of monthly estimates and change orders, planning and conducting preconstruction meetings with the contractor, and various administrative functions.

**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 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.

<p style="text-align: center;">Licensee</p> <p>1. SITE-Blauvelt Engineers, Inc.</p> <p>2. 16000 Commerce Parkway, Suite B Mt. Laurel, New Jersey 08054</p>	<p>In accordance with the letter dated June 6, 2003,</p> <p>3. License number 29-27857-01 is amended in its entirety to read as follows:</p> <hr/> <p>4. Expiration date <b>December 31, 2011</b></p> <hr/> <p>5. Docket No. 030-29302 Reference No.</p>
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|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Cesium 137</p> <p>B. Americium 241</p> | <p>7. Chemical and/or physical form</p> <p>A. Sealed Sources (CPN Model CPN-131; AEA Technology/QSA, Inc. Model CDCW556; Isotope Product Laboratories Model HEG-137)</p> <p>B. Sealed Sources (CPN Model CPN-131; AEA Technology/QSA, Inc. Model AMNV.997; Isotope Product Laboratories Models 3021, 3027 and AM1.NO2 )</p> | <p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. No single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State</p> <p>B. No single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State</p> |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

9. Authorized use:
- A. and B. In CPN Model No. MC-3 and in Troxler Electronic Laboratories Model Nos. 3430 and 3440 portable gauging devices for measuring physical properties of materials.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
29-27857-01Docket or Reference Number  
030-29302

Amendment No. 8

**CONDITIONS**

10. Licensed material may be used or stored at the licensee's facilities located at 16000 Commerce Parkway, Suite B, Mount Laurel, New Jersey; 850 North Fifth Street, Suite 5, Allentown, Pennsylvania; 1036 Corporate Drive, Murry Corporate Park, Export, Pennsylvania and may be used at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material, including areas of exclusive Federal jurisdiction within Agreement States.

If the jurisdiction status of a Federal facility within an Agreement State is unknown, the licensee should contact the Federal agency controlling the job site in question to determine whether the proposed job site is an area of exclusive Federal jurisdiction. Authorization for use of radioactive materials at job sites in Agreement States not under exclusive Federal jurisdiction shall be obtained from the appropriate state regulatory agency.

11. A. Licensed material shall be used by, or under the supervision and in the physical presence of, individuals who have received the training described in the application dated December 12, 2001, and letter dated December 14, 2001.
- B. The Radiation Safety Officer for this license is Mario R. Marra.
12. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d), 40.36(b), and 70.25(d) for establishing financial assurance for decommissioning.
13. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State.
- B. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State, prior to the transfer, a sealed source received from another person shall not be put into use until tested and the test results received.
- C. Sealed sources need not be tested if they 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 shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
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- D. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.
- E. Tests for leakage and/or contamination, limited to leak test sample collection, shall be performed by the licensee or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services. The licensee is not authorized to perform the analysis; analysis of leak test samples must be performed by persons specifically licensed by U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
- F. Records of leak test results shall be kept in units of microcuries and shall be maintained for 5 years.
14. Sealed sources or source rods containing licensed material shall not be opened or sources removed or detached from source rods or gauges by the licensee, except as specifically authorized.
15. The licensee shall conduct a physical inventory every six months, or at other interval approved by the U.S. Nuclear Regulatory Commission, to account for all sealed sources and/or devices received and possessed under the license.
16. 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 or storage, or when not under the direct surveillance of an authorized user.
17. Any cleaning, maintenance, or repair of the gauges that requires detaching the source or source rod from the gauge shall be performed only by the manufacturer or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
18. A. If the licensee uses unshielded sealed sources extended more than 3 feet below the surface, the licensee shall use surface casing that extends from the lowest depth to 12 inches above the surface and other appropriate procedures to reduce the probability of the source or probe becoming lodged below the surface. If it is not feasible to extend the casing 12 inches above the surface, the licensee shall implement procedures to ensure that the cased hole is free of obstruction before making measurements.

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**License Number  
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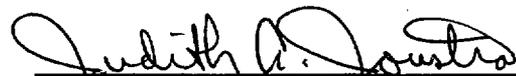
Amendment No. 8

- B. If a sealed source or a probe containing sealed sources becomes lodged below the surface and it becomes apparent that efforts to recover the sealed source or probe may not be successful, the licensee shall notify the U.S. Nuclear Regulatory Commission and submit the report required by 10 CFR 30.50(b)(2) and (c). The licensee shall not abandon the sealed source or probe without obtaining the Commission's prior written consent.
19. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
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. Application dated December 12, 2001  
B. Letter dated December 14, 2001  
C. Letter dated June 13, 2003

For the U.S. Nuclear Regulatory Commission

Date July 24, 2003

By

Judith A. Joustra  
Nuclear Materials Safety Branch 2  
Division of Nuclear Materials Safety  
Region I  
King of Prussia, Pennsylvania 19406

41963828

# *Certificate of Completion*

**This certifies that**

**Mario Marra**

**has successfully completed the**

**Radiation Safety Officer Class**

**conducted by the training department of**

*Troxler Electronic Laboratories, Inc.*

*Harvey Dunlevy*

**Harvey Dunlevy**

**Instructor**

**3/9/2006**

**Date**

*William F. Troxler, Jr.*

**President**



**Troxler Electronic Laboratories, Inc.**

PO Box 12057 • 3008 Cornwallis Rd. • Research Triangle Park, NC 27709

Phone: (919) 549-8661 • Fax: (919) 549-0761 • Web site: [www.troxlerlabs.com](http://www.troxlerlabs.com)

*Enrollment ID: 17463*

# *Certificate of Completion*

**This certifies that**

**Mario Marra**

**has successfully completed the**

**Nuclear Gauge Safety Training Class**

**conducted by the training department of**

*Troxler Electronic Laboratories, Inc.*



*Harvey Dunlevy*

**Harvey Dunlevy**

**Instructor**

**3/8/2006**

**Date**

*William F. Troxler, Jr.*

**President**



**Troxler Electronic Laboratories, Inc.**

PO Box 12057 • 3008 Cornwallis Rd. • Research Triangle Park, NC 27709

Phone: (919) 549-8661 • Fax: (919) 549-0761 • Web site: [www.troxlerlabs.com](http://www.troxlerlabs.com)

*Enrollment ID: 17462*

No 26866

# Certificate Of Completion

This is to certify that MARIO R. MARRA has completed the  
basic CPN<sup>®</sup> training course on Radiation Safety and Use of Nuclear Gauges,  
held this 6th day of November 19 96 in the  
City of Martinez State of CA by Boart Longyear Company.

Boart Longyear Company  
2830 Howe Road  
Martinez, California 94553 USA  
Phone: (510) 228-9770  
Fax: (510) 228-3183



Douglas Carter  
INSTRUCTOR  
Douglas Carter  
RADIATION SAFETY OFFICER  
Douglas Carter

# Certificate Of Completion

This is to certify that MARIO R. MARRA has completed the  
CPN® Radiation Safety Officer Seminar for Nuclear Gauges,  
held this seventh day of November 1996 in the  
City of Martinez State of CA by Boart Longyear Company.

Boart Longyear Company  
2830 Howe Road  
Martinez, California 94553 USA  
Phone: (510) 228-9770  
Fax: (510) 228-3183



Douglas Carter  
INSTRUCTOR  
Douglas Carter  
RADIATION SAFETY OFFICER

Nº 30951

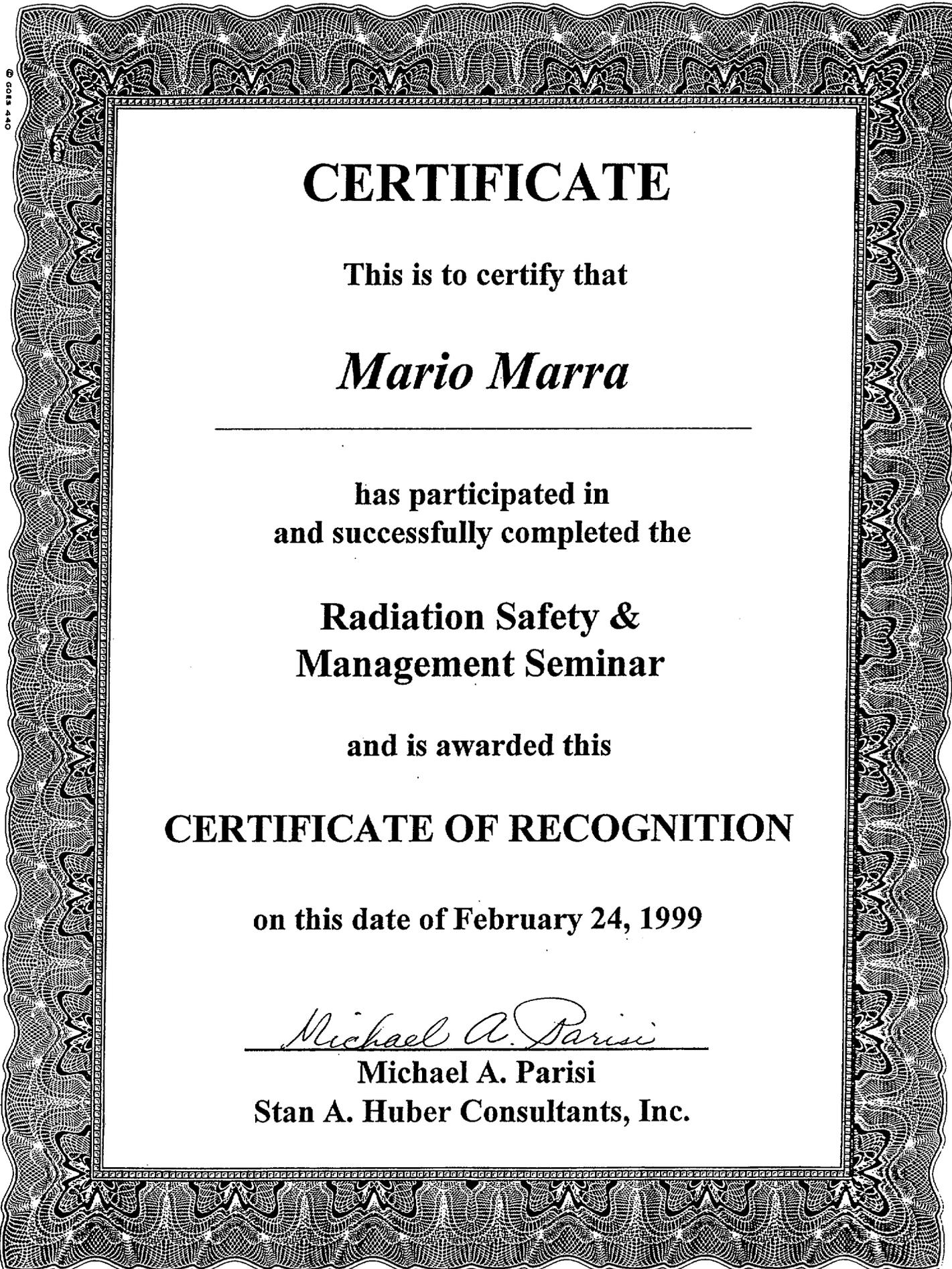
# Certificate Of Completion

*This is to certify that Mario R. Marra has completed the  
basic CPN® training course on Radiation Safety and Use of Nuclear Gauges,  
held this Fourth day of April 19 98 in the  
City of Mt. Laurel State of NJ by Boart Longyear Company.*

CPN International, Inc.  
2830 Howe Road  
Martinez, California 94553 USA  
Phone: (510) 228-9770  
Fax: (510) 228-3183



*James Steve Cosh*  
INSTRUCTOR  
*Douglas Carter*  
RADIATION SAFETY OFFICER



© 1993 440

# CERTIFICATE

This is to certify that

*Mario Marra*

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has participated in  
and successfully completed the

**Radiation Safety &  
Management Seminar**

and is awarded this

**CERTIFICATE OF RECOGNITION**

on this date of February 24, 1999

*Michael A. Parisi*

---

Michael A. Parisi  
Stan A. Huber Consultants, Inc.

UMONIN U.S.A.

# HAZMAT Certification

as required by U.S. DOT and IATA

*This certifies that*

**Mario Marra**

*has been trained and tested in accordance with the U.S. Department of Transportation and International Air Transport Association (IATA) hazardous material requirements for general awareness/familiarization, function-specific, safety, and security awareness training as related to the transportation of nuclear gauges. A description of the training course materials is available from Troxler Electronic Laboratories, Inc.*

<b>3/8/2006</b>	<b>3/8/2008</b>	<b>3/8/2009</b>	<b>Harvey Dunlevy</b>
<i>Training Date</i>	<i>Expiration per IATA*</i>	<i>Expiration per USDOT*</i>	<i>Instructor</i>

*\* For shipments by air, the IATA expiration date is applicable. For shipments by highway, the USDOT expiration is applicable.*



**Troxler Electronic Laboratories, Inc.**

PO Box 12057 • 3008 Cornwallis Rd. • Research Triangle Park, NC 27709  
Phone: (919) 549-8661 • Fax: (919) 549-0761 • www.troxlerlabs.com

*Certified by*

Company Official: *Michael [Signature] RSO*  
Company Name: *SITE-BLAUVELT ENGINEERS, INC*  
Company Address: *16100 COMMERCIAL PARKWAY, SUITE B*  
*MT LAUREL NJ 08054*

Enrollment ID: 17462

# HAZMAT Certification

as required by U.S. DOT and IATA

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*has been trained and tested in accordance with the U.S. Department of Transportation and International Air Transport Association (IATA) hazardous material requirements for general awareness/familiarization, function-specific, safety, and security awareness training as related to the transportation of nuclear gauges. A description of the training course materials is available from Troxler Electronic Laboratories, Inc.*

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PO Box 12057 • 3008 Cornwallis Rd. • Research Triangle Park, NC 27709  
Phone: (919) 549-8661 • Fax: (919) 549-0761 • www.troxlerlabs.com

*Certified by*

Company Official: Michael Conant RSO

Company Name: SITE-BLAUVELT ENGINEERS INC.

Company Address: 16000 COMMERCE PARKWAY, SUITE B  
MT LAUREL NJ 08054

Enrollment ID: 17463

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

3/22/2006, and to inform you that the initial processing which includes an administrative review has been performed.

Amend. 29-27857-01 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** 138636.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.