

APPLICATION FOR MATERIAL LICENSE

Estimated burden per response to comply with this mandatory collection request: 7.4 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 Management Branch (T-6 E6), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to bjs1@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0000), 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:

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 19408-1415

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

SAM NUNN ATLANTA FEDERAL CENTER
U. S. NUCLEAR REGULATORY COMMISSION, REGION II
61 FORSYTH STREET, S.W., SUITE 23785
ATLANTA, GEORGIA 30303-8831

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.

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
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
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 76011-8064

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

☐

A. NEW LICENSE

☐

B. AMENDMENT TO LICENSE NUMBER

☒

C. RENEWAL OF LICENSE NUMBER

29-02843-01

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

PSEG Service Corporation
Maplewood Testing Services
200 Boyden Avenue
Maplewood, NJ 07040

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

Maplewood Testing Services
200 Boyden Avenue
Maplewood, NJ 07040

& temporary off-site use

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Thomas Randall

TELEPHONE NUMBER

973-761-1108

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 INSTRUCTIONS.

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

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.

8. TRAINING

9. FACILITIES AND EQUIPMENT.

10. RADIATION

11. WASTE MANAGEMENT.

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

FEE CATEGORY

AMOUNT
ENCLOSED

\$ 2500.00

13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON

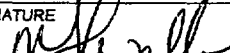
THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39, AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND 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

Michael J. Wallo - Manager - Maplewood Testing Services

SIGNATURE



DATE

1/27/05

FOR NRC USE ONLY

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

136313

5. Byproduct, source, and/or Special nuclear material	Chemical and/or Physical form	Possession Limit
A. Iron-55	Sealed Source (Texas Nuclear Model 9277)	45 millicuries
B. Cadmium-109	Sealed Source (Texas Nuclear Model 9277)	5 millicuries
C. Cesium-137	Sealed Source (Humboldt Model 5001)	100 millicuries
D. Nickel-63	Sealed Source (Conco Fluorotracer Model 101)	15 millicuries
E. Nickel-63	Foil/Plated Source for ECD in GC system (H-P Model 5890; P-E Autosystem)	100 millicuries
F. Any byproduct material Atomic # 1 through 83	Any	100 microcuries per Nuclide and 10 millicuries total

6. Purposes for which licensed material shall be used:

- A. For use in x-ray fluorescence analysis of alloys instrument that has been registered under 10 CFR 32.210
- B. For use in x-ray fluorescence analysis of alloys instrument that has been registered under 10 CFR 32.210
- C. For use in soil density/moisture measurements instrument that has been registered under 10 CFR 32.210
- D. For use in tracer gas determination via Electron Capture Detector instrument that has been registered under 10 CFR 32.210
- E. For use as a foil/plated source for sample analysis in gas chromatography instrument that has been registered under 10 CFR 32.210
- F. For use in the calibration of instruments and possession incidental to performance of leak testing of sealed sources.

Licensed material E and F shall be used only at the licensees facilities located at 200 Boyden Avenue, Maplewood, New Jersey

Licensed material A, B, C, and D may be used only at the licensees facilities located at 200 Boyden Avenue, Maplewood, New Jersey and/or at temporary job sites of the licensee where the USNRC maintains jurisdiction for regulating use of the licensed material.

In accordance with requirements set forth in 10 CFR 30.36(d), 40.42(d), and 70.38(d), the licensee shall promptly notify the USNRC, in writing, of a decision not to possess and use the authorized material.

Licensed material listed in item F can be used by or under the supervision of the Radiation Safety Officer.

Licensed material listed in items A through E shall only be used by, or under the supervision of, the Radiation Safety Officer or individuals who have successfully completed the manufacturer's training program for gauge users, and who have been instructed in the licensee's routine and emergency operating procedures.

In addition to the possession limits in item 7, the licensee shall further restrict possession of licensed material to quantities below the maximum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.

7. The Radiation Safety Officer for this license is Thomas M. Randall. Qualifications and training are attached.

8. Authorized User List

Items A,B) Iron-55, Cadmium-109; Alloy Analyzer; Texas Nuclear Model 9277; Ray Terek (10 years experience), Minh Tran (3 years); Texas Nuclear Certification is attached.

Item C) Cesium-137; Moisture/Soil Density Probe; Humboldt Model 5001; Phil Conte (10 years), John Szesko (5 years), Mark Jackson (5 years), Carter Hall (4 years), Dave Despotovich (5 years); Humboldt Certification or Radiation Safety Training Certification is attached.

Item D) Nickel-63; Conco/SAIC Fluorotracer Model 101; Victor Simpson (15 years), Gary Floystadt (15 years), Kenrick Ross (12 years); Radiation Safety Training Certification is attached.

Item E) Nickel-63; Electron Capture Detector in GC system; H-P Model 5890, P-E Autosystem; Arnulfo Quinto (14 years); Hewlett-Packard Certification and Perkin-Elmer Certification is attached.

Because of the relatively low level of radioactive material in use at Maplewood Testing Services, the limited use, and small inventory there is no need for bioassays or air monitoring. Unshielded sources of radioactive material in the high millicurie range are not used and as a result no area within the facility needs to be posted as a restricted area.

9. Facilities And Equipment

Entry to Maplewood Testing Services property is strictly controlled. Access to the property is only to authorized personnel. All gates to the property are normally locked and can only be accessed via the on-duty watchperson, or specially coded identification card of MTS employee.

Maplewood Testing Services (facility) has three floors. The low level counting laboratory is on the second floor. This is where liquid and solid sources are kept for calibrating the detection instrumentation. All liquid radioactive standards are kept in the Standards Preparation Room, which is kept locked when not in use. The door to the Standards Preparation Room is posted with a sign: "Caution – Radioactive Materials".

Gas Chromatographs are located on the third floor. Given that entry to the property is strictly controlled, the sealed source radioactive foils contained in the GCs are protected from unauthorized removal from the facility.

For the portable gauge, we commit to restricted access storage in a locked area, or vehicle while in the field. Presently, it is stored in a locked cabinet in the basement within a caged area, which is kept locked at all times. All personnel will wear TLDs, which will be read quarterly, when using the device. Additionally, the gauge is under constant control and surveillance of an authorized person when in use. We commit to transportation of the gauge in accordance with 49 CFR. The device will be leak tested. We commit to regulation to only dispose of the gauge by transfer to a licensee specifically designed to possess it.

10. Radiation Safety Training Program

The goal of the Radiation Safety Program is to understand the specific requirements of 49CFR172 as it applies to recognizing and understanding radioactive hazards; learn the emergency response steps that are necessary; become aware of accident prevention methods and practices as well as self-protection measures.

To that end, MTS will use instruments that meet the radiation monitoring instrument specifications published in Appendix M to NUREG 1556, Vol 7, "Program Specific Guidance about Academic, Research, and Development, and other Licensees of Limited Scope." Dated December 1999. In addition, MTS will implement the model survey meter calibration program published in the same document. MTS reserves the right to upgrade our survey instruments as necessary.

Radiation instrumentation present at the facility include:

Tennelec Model 5100 IGPC	A/B detector	-----	Measurement (Calib. Yearly)
Ludlum Model 3	Probe 44-9	A/B detection 100-4k cpm	Survey (Calib. semi-annually)
Ludlum Model 19		G detection 0-5k uR/hr	Survey (Calib. semi-annually)
Eberline E-140	GM Tube	A/B, detection 0-600 cpm	Survey (Calib. semi-annually)
Eberline E-140	HP-260	A/B, detection 0-600 cpm	Survey (Calib. semi-annually)
Packard Tri-Carb	Liquid Scint B detector	-----	Measurement (Calib. Yearly)
Ortec (6)	HPGe	G detector	-----
			Measurement (Calib. Yearly)

Procedures for ensuring material accountability have been developed and maintained. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory, and shall include the

radionuclides, quantities, manufacturer's name and model number, and the date of the inventory.

Sealed sources shall be tested for leakage and/or contamination at 6-month intervals as specified under 10 CFR 32.210. In the absence of a certificate from a transferor indicating that a leak test has been performed within the last 6 months, the sealed source shall not be put into use by the licensee until tested, and results are satisfactory.

Sealed sources need not be tested if they contain only Tritium (H-3); or they contain only radioactive gas; or the isotope half-life is < 30 days; or the source contains <100 microcuries of beta/gamma activity; or the source contains <10 microcuries of alpha activity.

The leak test shall be capable of detecting 0.005 microcuries (185 bq) of radioactive material on the test sample. If the test indicates >0.005 microcuries of contamination, the USNRC shall be notified as per 10 CFR 30.50(c)(2) and the source/device shall be immediately removed from service, and dealt with according to USNRC regulations/instructions.

Leak test sample collection and analysis shall be performed by the licensee or by USNRC licensed organizations, and records maintained for 5 years.

With respect to occupational dose, we have done a prospective evaluation and determined that unmonitored individuals are not likely to receive a radiation dose in excess of 10% of the allowable limits in 10 CFR Part 20. A certified vendor in accordance with NUREG 1556 services monitored individuals.

Procedures for safe use of sources and for emergencies have been developed and maintained. Procedures may be revised only if: 1) the changes are reviewed and approved by the licensee management and the RSO in writing; 2) the licensee staff is provided training in the revised procedure prior to implementation; 3) the changes are in compliance with the NRC regulations and the license; 4) the changes do not degrade the effectiveness of the program.

The licensee is authorized to transport licensed material in accordance with 10 CFR part 71 "Packaging and Transport of Radioactive Material."

Each portable gauge shall have a lock or outer locked container 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 direct surveillance from the user.

Maintenance, repair, cleaning, replacement and disposal of foils contained in detector cells shall be performed only by the device manufacturer, or other persons specifically authorized by the NRC. Sealed sources containing licensed material shall not be opened or sources removed from gauges by the licensee, except as specifically authorized. If unshielded 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, procedures shall be implemented to ensure the cased hole is free of obstructions before making measurements.

If a sealed source (or probe) becomes lodged below the surface and it becomes apparent that efforts to recover the sealed source may not be successful, the USNRC shall be notified, and submit a report as per 10 CFR 30.50(b)(2) and (c). The licensee shall not abandon the probe with written consent from the USNRC.

We will survey the facility and maintain contamination levels in accordance with the survey frequencies and contamination levels published in Appendix Q to Nureg 1556, Vol 7. Leak tests will be performed at intervals approved by the NRC and specified in the SSD Registration Certificate. Leak tests will be performed by an organization authorized by the NRC to provide leak testing services to other licensees or using a leak test kit supplied by an organization authorized by the NRC to provide leak test kits to other licensees and according to the sealed source or plated foil manufacturer and kit suppliers instructions. As an alternative, we will implement the model leak test program published in Appendix R to NUREG 1556 Vol 7.

11. Waste Management

We will use the model waste procedures published in Appendix T to NUREG 1556 Volume 7. The licensee is authorized to hold radioactive material with a half-life of <120 days for decay-in-storage before disposal in ordinary trash.

Waste to be disposed of in this manner shall be held for decay a minimum of 10 half-lives. Before disposal as ordinary trash, the waste shall be surveyed at the container surface with the appropriate survey meter set on its most sensitive scale and no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radioactive labels shall be removed or obliterated.

A record of each such disposal permitted under this license condition shall be retained for three years. The record must include date of disposal; date the byproduct material was placed in storage, the radionuclides disposed, the background dose rate measured at the surface of each container, and the name of the individual who performed the disposal.

12. 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 enclosures, listed. The USNRC regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

Certificate of Training

Awarded To

Thomas Randall

Recognizing completion of 40 hours of specialized instruction in

Radiation Safety Officer

September 26, 2003

Presented By

Radiation Safety Academy

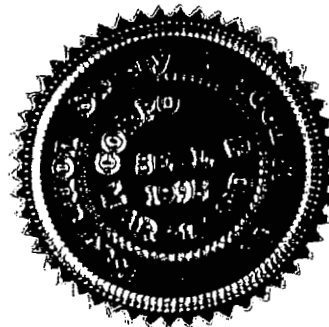
481 North Frederick Avenue, Suite 302
Gaithersburg, Maryland 20877

AAHP has awarded this course 32 Continuing Education Credits, 2003-00-018

ABIH has awarded this course 4.5 CM Points, CM Approval # 03-021



Raymond Johnson, CHP, PE, RSO
Training Director



Certificate of Training

This Certifies That

Thomas Randall

has been trained, tested and successfully completed the specialized instruction in

DOT & NRC Requirements for Shipping and Receiving Radioactive Materials

September 24, 2003

Presented By: **Sean M. Austin, Instructor**
Radiation Safety Academy

481 North Frederick Avenue, Suite 302, Gaithersburg, Maryland 20877
www.RadiationSafetyAcademy.com -- 301-990-6006

Presented For: **Public Service Electric and Gas**

Presented At: **Gaithersburg, MD**

This certifies that the employee named on this certificate has been trained and tested in accordance with the training requirements of 49 CFR, Subpart H.

Employer's Signature

This certificate is valid for 24 months for ICAO/IATA and for three years for U.S. Department of Transportation and U.S. Nuclear Regulatory Commission or Agreement State Agencies.

Sean M. Austin

Sean Austin, CHP
Senior Health Physicist

Radiation Safety Officer Sample Course Agenda

Faculty: Ray Johnson, MS, PE, RSO, FHPS, CHP

Alan Fellman, PhD, CHP

Sean Austin, MS, CHP

Elective courses are displayed in *italics*. To earn a 40-hour certificate, students must complete all 32 hours of required classes and at least 8 hours of elective classes.

Day 1 | Monday

8:00 Introduction, Course Overview, Radiation Fundamentals

12:00 Lunch

1:00 Radiation Fundamentals (continued)

4:00 Health Effects

6:00 Training for the Radiation Safety Trainer

7:30 Adjourn

Day 2 | Tuesday

8:00 Radiation Protection Standards, 10 CFR Part 19 and 20

10:00 Essential Highlights of 10 CFR Part 2, 30, 31, 33

12:00 Lunch

1:00 License Applications and Amendments

1:00 Medical Use Licensing, 10 CFR Part 35

2:00 External Dosimetry and Shielding

3:30 Internal Dosimetry

3:30 Sealed Sources & Industrial Gauges

5:00 Legal Implications: Radiation Litigation

6:00 Math Review & Radiation Safety Problem Solving

7:30 Adjourn

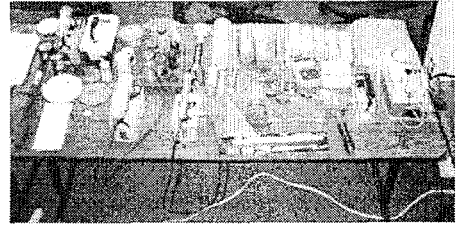
Day 3 | Wednesday

8:00 Radiation Survey Instruments,
Laboratory Instruments



12:30 Instruments Lab, Applications &
Troubleshooting, Leak Tests

3:30 *Radiation Safety Surveys*



3:30 *Effective Communications for the Radiation Safety Officer as a Manager
and Instructor*

5:30 *Laboratory Survey and PPE Exercise*

7:00 Adjourn

Day 4 | Thursday

8:00 Interpreting Radiation Measurements and Quality Assurance

10:00 Shipping and Receiving Radioactive Materials, DOT Training
Requirements

12:00 Lunch

1:00 Transportation (continued), Transportation Exam

4:00 *Radioactive Waste Management, Mixed Wastes, Waste Manifests*

4:00 *X-Ray Safety*

6:00 *Course Review and Preparation for Final Exam*
with Refreshments

7:30 Adjourn

Day 5 | Friday

8:00 Radiation Protection Program Management

9:00 Preparing for Regulatory Inspections, Emergency Response,
Information Resources, Challenges to RSO's

11:00 Final Exam (passing grade of 70% correct is required)

12:00 Presentation of Certificates and Adjourn RSO Course

1:00 *Fundamentals of Liquid Scintillation Counting*
(optional module, \$200 additional fee)

5:00 Adjourn LSC Option

Thomas M. Randall
973-761-1392
Thomas.Randall@pseg.com

EXPERIENCE

PSEG Power, LLC
Senior Test Engineer
Maplewood, NJ

2000-Present

Perform and direct the performance of environmental level radiological analysis of air, water, milk, soil, sediment, vegetable and vegetation, meat, crab and fish samples. Utilized include gamma spectroscopy, liquid scintillation and gas proportional counting methods. Perform and direct the radiological assessment of shipped, received and/or stored packages.

Senior Test Engineer
Hancocks Bridge, NJ

1997-2000

Coordination of Maplewood Testing Services (MTS) testing activities with the PSEG Nuclear, LLC Work Management System personnel to organize, schedule and direct all facets of specific major tests conducted by MTS and supplemental contractors, Reporting, to station Junior and Senior Management, work status and compliance issues, assuring compliance with the Nuclear and governmental regulations, site specific work processes and Quality Assurance/Quality Control (QA/QC) objectives. Acted in a leadership capacity of assigned groups to plan, conduct, coordinate, schedule and follow up both routine and special projects. Development of new and modification of existing test procedures to meet client needs and regulatory requirements. Performance of tests, initiation of investigations, evaluation of data, and making specific recommendations using independent judgment and to reporting results to various departments within and outside the Maplewood Testing Services (MTS) and PSEG.

Maplewood Testing Services
Tester A, Technician, Test Engineer

1977-1997

Duties included performing, directing and evaluating radiological testing and generating periodic reports, training personnel; administration of radiological compliance activities and acting as liaison as it related to the USEPA, NRC, NJDEP, development of Lotus/Excel programs to compute and report complex analytical results/evaluation; team leader tasked to the purchase and implementation of the LIMS system for MTS. Development and overseeing of the QA/QC Program for the Water Quality, Fuels & Lubricating Oils and PCB Sections of the Environmental & Chemical Services Division. Act as a consultant to other Divisions within the Laboratory pertaining to Radiological and Quality Assurance matters. Developed the QA/QC segment of a project designed to monitor the changing properties of Lubrication Oils for safety-related equipment at Artificial Island. Development of QA/QC program for asbestos (bulk and filter) analysis and subsequent supervision of that Quality Assurance Program. Development of the Quality Assurance Manual for the Environmental Group (Radiological Monitoring), implementation of programmatic QA/QC within the Division, maintenance of all records pertaining to that QA/QC.

Responsible for Radiation Safety within the Division, Performance, analysis and evaluation of gamma spectroscopy testing. Responsible for the procurement of radiological equipment/instrumentation and associated standards material within the confines of the MTS radiological materials license.

EDUCATION AND OTHER

Bachelor of Science Degree in Environmental Sciences, Rutgers University, 1972
Master of Science Degree in Health Physics, Rutgers University, 1995
Liquid Scintillation Counting (Packard), Quality Assurance in the Chemistry Lab (NIST),
Nuclear Plant Lab QA/QC Practices (Halliburton NUS), Environmental Regulations
(Executive Enterprises), ISO 9000 Lead Auditor Training, seminars, etc., germane to my
field of expertise.
Seminars in Project Management, Negotiating Skills and Teamwork

RELATED SKILLS

Adept in the use of the Matrix LIMS, IBM PC and much of their attendant software.
Have completed various computer courses at Seton Hall as well as attending seminars
to enhance computer software skills (Word, Excel, SAP, Internet), scientific
instrumentation applications, governmental radiological and environmental regulations.



Analytical Products Group

Certificate of Achievement

This is to certify that

ARNULFO QUINTO

has completed a course of study in

Introduction to Capillary GC

presented by
Analytical Education

A handwritten signature in cursive script, reading 'Stephan A. George', written over a horizontal line.

Stephan A. George
Americas Training Manager

A handwritten signature in cursive script, reading 'Arnulfo Quinto', written over a horizontal line.

Perkin-Elmer

is pleased to certify that

ARNOLD QUINTO

has completed the
following training program:

GAS CHROMATOGRAPHY

COLUMNS AND TROUBLESHOOTING

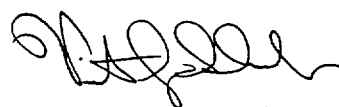
Perkin-Elmer

is pleased to award 1.2

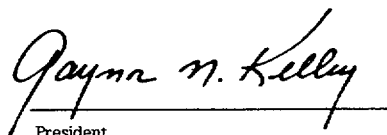
Continuing Education Units
for completion of this course.



Technical Instructor



Senior Manager Technical Training



President
The Perkin-Elmer Corporation

06-07-91

Date

PERKIN ELMER

**Technical
Training
Center**

Perkin-Elmer
is pleased to certify that

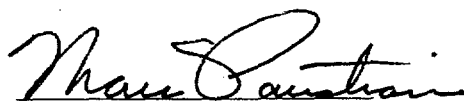
ARNOLD QUINTO

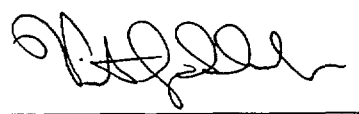
has completed the
following training program:

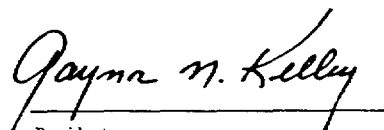
GAS CHROMATOGRAPHY

FUNDAMENTAL GC AND DATA HANDLING

Perkin-Elmer
is pleased to award 1.2
Continuing Education Units
for completion of this course.


Technical Instructor


Senior Manager Technical Training


President
The Perkin-Elmer Corporation

06-05-91
Date

PERKIN ELMER
**Technical
Training
Center**

Perkin-Elmer
is pleased to certify that


ARNULFO QUINTO

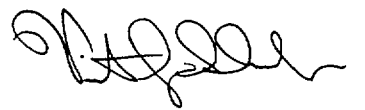
has completed the
following training program:

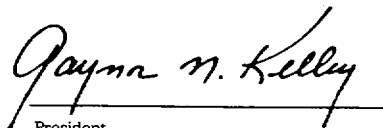
COMPUTER AIDED CHROMATOGRAPHY

TURBOCHROM 4

Perkin-Elmer
is pleased to award 1.4
Continuing Education Units
for completion of this course.


Technical Instructor


Senior Manager Technical Training


President
The Perkin-Elmer Corporation

07-27-94
Date

PERKIN ELMER
**Technical
Training
Center**

COPY

Hazardous Materials Training

Certification

Employee: Victor Simpson


Training completed on: April 14, 2004

Training description: Hazardous Materials Transportation
Function Specific (Radioactive)

Training provided by: Thomas Randall
Radiation Safety Officer
Maplewood Testing Services
PSEG Services Corp

This certification is awarded for successfully completing training and for attaining a passing grade on the final proficiency test. The training is designed to satisfy the Function Specific training requirements of 49 CFR 172.704(a).

This certification is in effect for three years from the date of training completion.



Certified by: Paul Scherba
Env. Coordinator-Maplewood Testing Services

5-11-04

Date

COPY

Hazardous Materials Training

Certification

Employee: Raymond Terek


Training completed on: April 14, 2004

Training description: Hazardous Materials Transportation
Function Specific (Radioactive)

Training provided by: Thomas Randall
Radiation Safety Officer
Maplewood Testing Services
PSEG Services Corp

This certification is awarded for successfully completing training and for attaining a passing grade on the final proficiency test. The training is designed to satisfy the Function Specific training requirements of 49 CFR 172.704(a).

This certification is in effect for three years from the date of training completion.



Certified by: Paul Scherba
Env. Coordinator-Maplewood Testing Services

5-11-04

Date

COPY

Hazardous Materials Training

Certification

Employee: Minh Tran

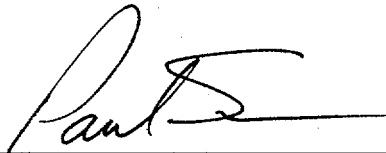
Training completed on: April 14, 2004

Training description: Hazardous Materials Transportation
Function Specific (Radioactive)

Training provided by: Thomas Randall
Radiation Safety Officer
Maplewood Testing Services
PSEG Services Corp

This certification is awarded for successfully completing training and for attaining a passing grade on the final proficiency test. The training is designed to satisfy the Function Specific training requirements of 49 CFR 172.704(a).

This certification is in effect for three years from the date of training completion.



Certified by: Paul Scherba
Env. Coordinator-Maplewood Testing Services

5-11-04

Date

Hazardous Materials Training

Certification

Employee: Phillip Conte

Training completed on: April 15, 2004

Training description: Hazardous Materials Transportation
Function Specific (Radioactive)

Training provided by: Thomas Randall
Radiation Safety Officer
Maplewood Testing Services
PSEG Services Corp

This certification is awarded for successfully completing training and for attaining a passing grade on the final proficiency test. The training is designed to satisfy the Function Specific training requirements of 49 CFR 172.704(a).

This certification is in effect for three years from the date of training completion.



Certified by: Paul Scherba
Env. Coordinator-Maplewood Testing Services

5-11-04

Date

Hazardous Materials Training

Certification

Employee: Gary Floystad

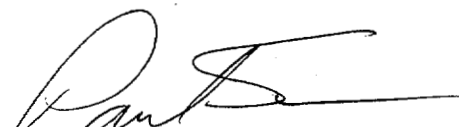
Training completed on: January 24, 2005

Training description: Hazardous Materials Transportation
Function Specific (Radioactive)

Training provided by: Thomas Randall
Radiation Safety Officer
Maplewood Testing Services
PSEG Services Corp

This certification is awarded for successfully completing training and for attaining a passing grade on the final proficiency test. The training is designed to satisfy the Function Specific training requirements of 49 CFR 172.704(a).

This certification is in effect for three years from the date of training completion.



Certified by: Paul Scherba
Env. Coordinator-Maplewood Testing Services

1-25-05
Date

Hazardous Materials Training

Certification

Employee: Kenrick Ross

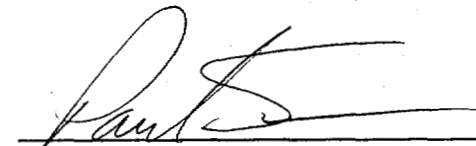
Training completed on: January 24, 2005

Training description: Hazardous Materials Transportation
Function Specific (Radioactive)

Training provided by: Thomas Randall
Radiation Safety Officer
Maplewood Testing Services
PSEG Services Corp

This certification is awarded for successfully completing training and for attaining a passing grade on the final proficiency test. The training is designed to satisfy the Function Specific training requirements of 49 CFR 172.704(a).

This certification is in effect for three years from the date of training completion.



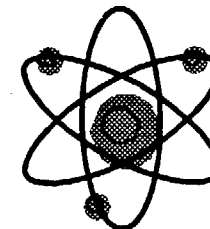
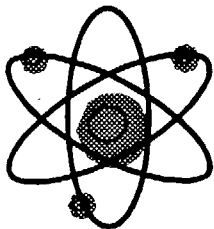
Certified by: Paul Scherba
Env. Coordinator-Maplewood Testing Services



Date

Q/C RESOURCE

Training Course Certification



This is to certify that

John Szesko

has successfully completed the RSO and Operator's course as required by the U.S. Nuclear Regulatory Commission and the Agreement States, in the Fundamentals of Safety and Gage operation, for the use of Nuclear Moisture / Density equipment. This course meets the requirements in NUREG 1556 Vol 1, Appendix D. It covered:

Atomic Physics

Radiation Safety

Dose/Shielding Calculations

Accidents/Storage

Transportation

Risk

ALARA

Measurement Theory

Operation

Field Applications

Calibration

Maintenance

April 24, 2001

Date of Training

5255

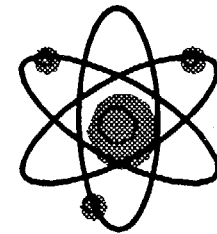
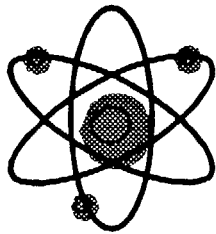
Certificate Number

Instructor - Philip C. Palilla

Manufacturer's Rep

Q/C RESOURCE

Training Course Certification



This is to certify that

Mark Jackson

has successfully completed the RSO and Operator's course as required by the U.S. Nuclear Regulatory Commission and the Agreement States, in the Fundamentals of Safety and Gage operation, for the use of Nuclear Moisture / Density equipment. This course meets the requirements in NUREG 1556 Vol 1, Appendix D. It covered:

Atomic Physics

Transportation

Operation

Radiation Safety

Risk

Field Applications

Dose/Shielding Calculations

ALARA

Calibration

Accidents/Storage

Measurement Theory

Maintenance

April 24, 2001

Date of Training

5256

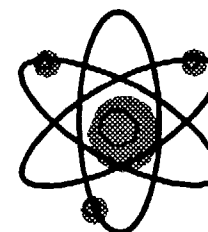
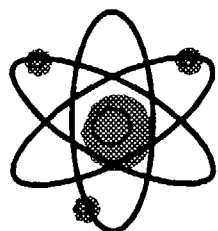
Certificate Number

Instructor - Philip C. Palilla

Manufacturer's Rep

Q/C RESOURCE

Training Course Certification



This is to certify that

Carter Hall

has successfully completed the RSO and Operator's course as required by the U.S. Nuclear Regulatory Commission and the Agreement States, in the Fundamentals of Safety and Gage operation, for the use of Nuclear Moisture / Density equipment. This course meets the requirements in NUREG 1556 Vol 1, Appendix D. It covered:

Atomic Physics

Transportation

Operation

Radiation Safety

Risk

Field Applications

Dose/Shielding Calculations

ALARA

Calibration

Accidents/Storage

Measurement Theory

Maintenance

April 24, 2001

Date of Training

5258

Certificate Number

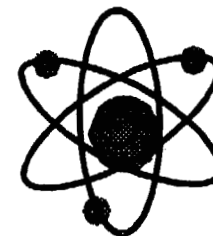
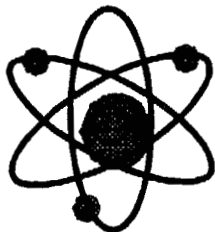
Philip C. Palilla

Instructor - Philip C. Palilla

Manufacturer's Rep

Q/C RESOURCE

Training Course Certification



This is to certify that

David Despotovich

has successfully completed the RSO and Operator's course as required by the U.S. Nuclear Regulatory Commission and the Agreement States, in the Fundamentals of Safety and Gage operation, for the use of Nuclear Moisture / Density equipment. This course meets the requirements in NUREG 1556 Vol 1, Appendix D. It covered:

Atomic Physics

Radiation Safety

Dose/Shielding Calculations

Accidents/Storage

Transportation

Risk

ALARA

Measurement Theory

Operation

Field Applications

Calibration

Maintenance

April 4, 2002

Date of Training

6144

Certificate Number

Phillip C. Palilla

Instructor - Phillip C. Palilla

Manufacturer's Rep