



RECEIVED
REGION 1

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May 6, 2005

U. S. Nuclear Regulatory Commission
Region I
Security and Industrial Branch
Division of Nuclear Materials Safety
475 Allendale Road
King of Prussia, PA 19406 - 1415

Attention: Mr. David J. Collins

RE: U. S. Silica Company - Pacific Plant

Dear Mr. Collins:

03014788

Reference is made to NRC License Number 47-09375-07 issued for the U. S. Silica Co. which expires on September 30, 2014. The following two amendments are requested for this license.

1. **PACIFIC PLANT** – Under NRC License Condition #11B, Item #2, please remove Mr. Steve J. Babler entirely from the license. Mr. Babler is no longer the RSO for the plant.
2. **PACIFIC PLANT** – Under NRC License Condition #11B, Item #2, please place Mr. Chris A. Rahn as the Plant RSO. Credentials for Mr. Rahn are included for your review.

USS understands that no NRC fee is required for the processing of these two amendment requests. Advise if any questions exist or if further information is needed after your review.

Sincerely,

U. S. SILICA COMPANY

Jack M. Pryor, P.E., P.S., QEP, CES
Civil Engineer - Permitting

/jmp
Enclosures

cc: J. A. Ulizio
J. S. Vaccari
C. W. Kreamer

C. A. Rahn
S. J. Babler
USS Environmental Database / Central Files

137136
NMSS/RGNI MATERIALS-002

February 18, 2005

Chris A. Rahn
US Silica
819 East Osage St.
Pacific, MO 63069

Dear Chris,

We are pleased to confirm your successful completion of the Radiation Safety Training Course conducted February 14 – 18, 2005 by Thermo Electron.

Enclosed in this packet are your Certificates of Training, Letter of Certification, Course Outline, and Information for CM Points.

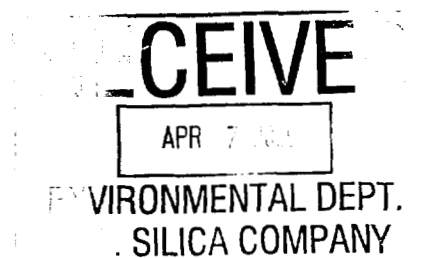
Congratulations on completing the Radiation Safety Training Course. If we can be of further assistance, do not hesitate to let us know.

Sincerely,

Martha Hernandez

Martha Hernandez
Licensing & Regulatory Specialist

Enclosures



February 18, 2005

LETTER OF CERTIFICATION

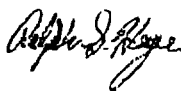
This is to certify that Chris A. Rahn of US Silica has attended and successfully completed a 40-hour Industrial Radiation Safety Training course, conducted by Thermo Electron the week of February 14 – 18, 2005 and described in the attached course outline.

The course covers fundamentals of radiation, units of dose and quality of radiation fields, hazards of radiation exposure, detection devices, regulatory controls, industrial devices and specific training on installation and leak testing of TMT density, level, and weigh gauges. It is designed to meet the requirements of the Nuclear Regulatory Commission and Agreement States for Radiation Safety Officers at companies using industrial gauging devices.


This course is structured to qualify persons who complete it to understand and safely perform various operations involving nuclear devices including the installation, relocation, and leak testing of such equipment. The operations are to be performed in accordance with the rules and regulations of the United States Nuclear Regulatory Commission and/or Agreement States, and are in all respects subject to such rules and regulations.

This letter cannot be used in lieu of a specific license from, or other sanction by, an appropriate regulatory agency.

Thermo Electron



Ralph S. Heyer
Corporate Radiation Safety Officer



Certificate of Training

This is to certify that

Chris A. Rahn

Has Successfully Completed


A 40-Hour Radiation Safety Training Course

Presented by Thermo Electron

Date Issued: February 18, 2005

Thermo
ELECTRON CORPORATION

2555 North IH-35 Round Rock, TX 78664



Ralph Heyer, Corporate Radiation Safety Officer

Certificate of Training

This is to certify that

Chris A. Rahn

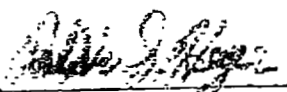
Has successfully completed general awareness, function-specific,
and safety training applicable to the transport of nuclear
gauging devices, and has been tested on these subjects
as required by 49CFR172 Subpart H.

Date Issued: February 18, 2005

Expires: February 18, 2008

Thermo
ELECTRIC CORPORATION

2555 North IH-35 Round Rock, TX 78664


Ralph Heyer, Corporate Radiation Safety Officer

Thermo Electron
"Radiation Safety Officer" Training
Course Outline

Mathematics Review (2 hours)

- Basic Mathematical Concepts
- Exponential and Scientific Notation
- Basic Problem Solving
- Dose Calculations

Radiation Dose Units (2 hour)

- Roentgen
- Rad
- Rem
- Quality factor

Atomic Structure (2 hour)

- Bohr model
- Chart of Nuclides
- Nuclides and notation
- Isotopes

Types of Radiation (2 hours)

- Alpha
- Beta
- Gamma and X-ray
- Neutrons

Radioactive Decay (2 hours)

- Activity
- Decay schemes
- Decay law
- Half-life

Interaction of Radiation with Matter (3 hours)

- Ionizing vs. Non-ionizing
- Ionization and excitation
- Alpha, Beta, Gamma interactions
- Photoelectric, Compton, pair production
- Photon exposure rate; shield calculation
- Half-value layers

Shielding (3 hours)

- Time, distance, and shielding
- Inverse square law
- Linear and Mass Attenuation Coefficients

Biological Effects (3 hours)

- Internal Exposure to Radionuclides
- Physical/Chemical Mechanisms of Injury
- Acute Radiation Injury
- Long Term Effects
- Genetic Effects
- Teratogenic Effects
- Carcinogenic Effects
- Background Radiation
- Risk Estimates

Regulatory Control (4 hours)

- Title 10 Code of Federal Regulations
- Agreement states
- Licensing and Compliance procedures
- General and specific license
- User responsibility
- XRF analyzers, Portable and mobile gauges

Shipping Radioactive Material (4 hours)

- Packaging and Labeling
- IATA/ICAO
- Title 49 Code of Federal Regulations
- XRF analyzers, Portable and mobile gauges

Radiation Protection Program-ALARA (4 hours)

- ALARA statement
- Radiation Protection Program
- Operating, safety, and emergency procedures
- Compliance with dose limits
- Employee notification
- Record keeping
- Posting & Reporting

Radiation Detection (2 hours)

- Fundamentals of detection
- Instrument characteristics, use, and limitations
- Survey meters
- XRF analyzers, Portable and mobile gauges

Personnel Monitoring (2 hour)

- Requirements
- Film badges, TLDs, etc.

Industrial (2 hours)

- Industrial device installation
- Surveying & leak testing demonstration
- Industrial applications

"Hands-On" (2 hours)

- Use of portable radiation survey meters
- Survey of a fixed gauge
- Preparation of survey form
- Leak test of devices

Closed book: Written Exam on Lectures and Homework Assignments (2 hours)

Note: A minimum 3 hours of homework is assigned each evening during the course.

Information for CM Points

The Industrial Radiation Safety Training Course has been approved for CM Points through the American Board of Industrial Hygiene. When updating your file, provide them with the following information:

Sponsor: Thermo MeasureTech
Name of Activity: Industrial Radiation Safety Training(include the appropriate dates)
CM Points Awarded: 4.5
CM Approval No.: 8162

If additional information is required, contact Ms. Barbara A. Saalfeld, Administrative Assistant, American Board of Industrial Hygiene, 4600 W. Saginaw, Suite 100, Lansing, MI 48917-2737. She can also be reached by phone at (517) 321-2638.

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

5/6/2005, and to inform you that the initial processing which includes an administrative review has been performed.

☒ Amendment 47-09375-07
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

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** 137136.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.

BETWEEN: : (FOR LFMS USE)
 : INFORMATION FROM LTS
 : -----
 :
 License Fee Management Branch, ARM : Program Code: 03120
 and : Status Code: 0
 Regional Licensing Sections : Fee Category: 3P
 : Exp. Date: 20140930
 : Fee Comments: _____
 : Decom Fin Assur Req'd: N
 : ::::::::::::::::::::::::::::::::::::::

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

Applicant/Licensee: U. S. SILICA COMPANY
Received Date: 20050601
Docket No: 3014788
Control No.: 137136
License No.: 47-09375-07
Action Type: Amendment

2. FEE ATTACHED

Amount: /
Check No.: /

3. COMMENTS

Signed *Wesley J. Ford*
Date 6/9/2005

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered /__/)

1. Fee Category and Amount: _____

2. Correct Fee Paid. Application may be processed for:

Amendment _____
Renewal _____
License _____

3. OTHER _____

Signed _____
Date _____