

Florence Road, P.O. Box 10  
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**Omya, Inc. - Verpol Plant**

To: Mr. Sattar Lodhi  
Nuclear Regulatory Commission  
Region I  
475 Allendale Road  
King of Prussia, Pennsylvania 19406

Fax: 610-337-5269  
Tel: 610-337-5364

*Q-2*

From: Tom Sawyer

Date: December 15, 2004

Re: Control # 135974, License # 44-18458-01 Page 1 of 23

*03015120*

Dear Mr. Lodhi,

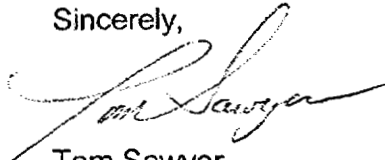
Thank you for noting the need for documentation to support question 10 – non-routine maintenance, on our renewal application. Omya needs to be able to perform non-routine maintenance and does so as documented in the following pages.

Following is the additional material license renewal information that I believe supports this question:

Page1	This letter.
Page 2	Information to support question 10 – non-routine maintenance.
Page 3 – 9	Omya's radiation protection program including those sections supporting non-routine maintenance. Please note that we will further update our radiation program as you see appropriate to meet the requirements of NUREG-1556, vol. 4, appendix N.
Page 10-23	Training certificates for those individuals that will perform non-routine operations.

I believe this the information that you need. Please let me know if there are any issues that need to be resolved. Thank you for your assistance.

Sincerely,



Tom Sawyer  
RSO / Environmental Manager

*135974***NMSS/RGNI MATERIALS-002**

December 15, 2004

## Item 10 - Non-Routine Maintenance Operations

1. OMYA Inc., Verpol Plant personnel will perform non-routine maintenance operations including installation, relocation and alignment of gauges, repair and maintenance of components related to the radiological safety of the gauge, removal of a gauge from service and initial radiation surveys.
2. The gauge manufacturer, distributor or other person authorized by the NRC or an Agreement State will handle replacement of sources in the source holder as well as disposal of sealed sources.
3. Persons performing non-routine operations include:

Thomas J. Sawyer  
Timothy Elliott  
Lucas Drinkwine  
Ray Bradish  
Evan Truchon  
Ivan J. Bedell  
George A. Saunders III  
Gerard H. Coursey

All have received training through the manufacturer's 40-hour radiation safety course. All have handled Kay-Ray gauges either as RSO's, electricians or under the direction of an RSO.

4. Procedures for non-routine operations follow this page.
5. Calculations have been performed demonstrating that unmonitored individuals performing non-routine operations are not likely to receive, in one year, a radiation dose in excess of 10% of the allowable limits.
6. OMYA Inc., Verpol Plant has a Geiger counter calibrated on a yearly basis.
7. As described in the Radiation Safety Program, the applicant is committed to perform a gauge survey with a survey instrument, as per training through the manufacturer, before non-routine operations occur and during those non-routine operations as appropriate and will maintain record of those surveys for 3 years from the date of the survey.

## Radiation Protection Program Verpol Plant

Last Updated 11/09/04

Last Reviewed 11/09/04

### ALARA Statement

OMYA will make every effort and shall use, to the extent practicable, procedures, and engineering controls based upon sound radiation protection principles to achieve occupational doses and doses to individual members of the public as low as reasonably achievable.

#### I. RSO and Trained Personnel

- A. Radiation Safety Officer (RSO) – Attended the gauge manufacturer's 40-hour radiation safety course as well as has hands on experience with gauges.

1. Thomas J. Sawyer Work: (802) 770-7608

Home: [REDACTED]

Cell: [REDACTED]

- B. Radiation Safety Trained – All have attended the gauge manufacturer's 40-hour radiation safety course as well as have hands on experience with gauges.

1. Timothy Elliott Work: (802) 770-7511

Home: [REDACTED]

2. Lucas Drinkwine Work: (802) 770-7502

3. Ray Bradish Work: (802) 770-7535

4. Evan Truchon Work: (802) 770-7549

5. Ivan J. Bedell Work: (802) 770-7563

6. George A. Saunders III Work: (802) 770-7562

7. Gerard H. Coursey Work: (802) 483-2121

#### II. Operating, Safety, and Emergency Procedures

It is important to follow these procedures and the manufacturer's instructions to ensure that doses to personnel and members of the public are within regulatory limits and ALARA.

##### A. Receipt of Radioactive Sources

1. Receiving personnel will visually inspect the outside shipping container for evidence of damage to all packages containing radioactive materials.
2. If inspection indicates any damage, the RSO or authorized designee shall be notified immediately. The package will not be moved and access to the immediate area will be controlled until the RSO or designee arrives to assess the condition of the package.

*RSO or designee: Survey the shipping box or crate at the storage location to insure that the radiation levels are the same as indicated by the shipping labels. If you find a significant difference (e.g., +50%), remove any personnel from the immediate area. Test for contamination by wiping with a swab, paper or cloth and scanning with an open window survey meter in a low background area.*

**PERSONAL INFORMATION WAS REMOVED  
BY NRC. NO COPY OF THIS INFORMATION  
WAS RETAINED BY THE NRC.**

*Damage or any degree of contamination precludes installation and the manufacturer is to be notified immediately.*

3. If no damage is apparent, the package will be moved to a location near the source cabinet located in the southeast corner of the receiving area.

*RSO or designee: As soon as reasonably possible, on the day of receipt, remove the outer covering of the box or shipping crate and visibly inspect the shutter assembly, locking mechanism and correctness of labeling. Verify that the shutter is fully closed by use of a survey meter. Then relocate the radioactive source into the source cabinet, located in the southeast corner of the receiving area or to the area where the device will be mounted. The source is to be relocated to the location where it is to be mounted only if it will be mounted immediately or will be under constant supervision until mounted.*

B. Non-Routine Operations Including Installation, Surveys, Removal, Relocation, Replacement, Disposal, Alignment and Repair

In all cases, personnel performing non-routine operations shall be trained and follow appropriate procedures consistent with the manufacturer's instructions. A survey meter will be used before non-routine operations as well as during non-routine operations as appropriate to ensure that personnel do not receive radiation doses exceeding NRC limits.

1. Installation

- a) To install a radioactive source, contact the RSO. He or one of the trained personnel is to supervise the installation.

*RSO or designee: Inspect the location where the source is to be located. Calculate the anticipated doses. Are they within limits? (See Section VII) Will the source be accessible for future surveys? Will the source be in the line of traffic, liable to be damaged? Etc.*

- b) The RSO or designee will retrieve the source from the source cabinet (or from the place of removal in the case of gauge relocation.)

*RSO or designee: Obtain the paper work for the specific source to be used. Have all of the required surveys been performed and to date? Identify the specific source in the source cabinet by the labels. Using a survey meter determine that the shutter is indeed closed. Once the shutter position is confirmed closed and locked in that position, the source may be transported within the plant and mounted by anyone.*

- c) Install the source and meter as per the manufacturer's installation procedures.
- d) Once the source is mounted, the RSO or designee will unlock the source and perform a radiation survey and leak test and document them. The radiation survey and leak tests are then filed as permanent records.

*RSO or designee: All radiation levels measured around an installed source should be less than 5 mR/h one foot from any accessible surface. If this is not the case, evaluate the installation for additional shielding needs and be aware of any posting requirements.*

- e) Anyone calibrating or working in the area of the source is to be trained of the information commensurate with the work they are performing.

- f) Always use the manufacturer's supplied brackets to mount the source and sensor, as this will eliminate the need for alignment. If the source is to be aligned, contact the RSO.

2. Removal/Removal From Service

- a) To remove a source or sensing unit, first contact the RSO or their designee.

*RSO or designee: Obtain the paper work for the specific source to be removed. Have all of the required surveys been performed and to date? Identify the specific source in the field by the labels. Close the shutter and confirm that the shutter is indeed closed using a survey meter. Once the shutter position is confirmed closed and locked in that position, the source may be removed and transported to the source cabinet in the receiving area.*

- b) As the sources and sensing units are very heavy, be sure to have adequate rigging to remove the element without dropping or damaging it.
- c) Remove the element desired only after the RSO or designee has deemed it safe to do so.
- d) If the source is being removed from service, the source will be stored in the source cabinet after survey for future shipment back to the manufacturer. In any case, the source inventory will be updated to reflect the new location.

3. Relocation and Replacement of Sealed Sources

- a) Relocate or replace the sealed source by following the removal instructions above and then following the installation instructions above.

4. Disposal, Transfer & Shipping

- a) A nuclear source that is no longer of value to this plant will either be disposed of or transferred to another user. The RSO is responsible for these actions.

*RSO: A nuclear source that is to be disposed of is to be shipped to an appropriate disposal site, preferably a sealed source manufacturer. A transfer of a source to an off-site location is to be returned to the manufacturer for transfer. Contact the manufacturer for either case first.*

- b) A source to be shipped from this site needs special attention, contact the RSO.

*RSO: To ship a source back to the manufacturer or to a disposal site, contact the receiver of the sources and they will advise as to the appropriate shipping instructions. Consult the latest edition of the NRC manual to confirm the direction received.*

5. Alignment

- a) When using the manufacturer's mounting brackets, alignment is naturally occurs. The RSO will check to ensure alignment is correct by making a survey and will determine the issue if the survey indicates radiation levels higher than allowed.

6. Maintenance / Repair

- a) No source shall be modified in any way. Only the manufacturer shall do any maintenance or repair that a source may need that may affect the radiological

safety of the source. If an issue is encountered that needs work, contact the RSO.

- b) A trained person may perform general maintenance such as, shutter lubrication, replacement of a label, etc.
- c) Sources must be locked out and the area surveyed before any work where the person could receive a radiation dose exceeding NRC limits.
- d) Use of any non-manufacturer supplied replacement components must be evaluated by the RSO to ensure that they do not degrade the engineering safety analysis performed and accepted as part of the device registration.

C. Lock-out/Tag-out

- 1. A radioactive source will be locked out whenever anyone will, in the course of his or her job, be in the beam of the source or could receive a radiation dose exceeding NRC limits.
- 2. A vessel that has a source mounted to it shall not be entered prior to the source being locked out even if one will not be in the beam of the source.
- 3. Prior to work commencing, or the source being locked out, the RSO will be notified.
- 4. Upon review by the RSO, the shutter on the source will be closed, and a lock and tag applied at the source and in the Control Room. The RSO or designee will use a survey meter to verify that the shutter is indeed closed and radiation levels are acceptable,  $<5$  mR/hr at one foot. The RSO will be notified prior to removing the lock and opening of the shutter.
- 5. The RSO shall be notified if a person shall be working in close proximity, less than one foot, to a radioactive source for an extended period of time, more than 4 hours. The RSO will determine the exposure and provide the appropriate procedures.

D. Contractor/Vendor Services

- 1. All contractors providing radiation services on site will work in accordance with site safety procedures and the contractor's approved operating procedures.
- 2. Before beginning any licensed activities, contractors are required to review their operating license and emergency procedures with the RSO or designee. In addition, contractors will have certification of instrument calibration and appropriate personnel monitoring devices, if such are required.
- 3. Contractors bringing radioactive material onto the site must advise the RSO or designee of the isotope(s) and activities prior to beginning work.
- 4. Contractors will properly post and control the areas in which they are working.
- 5. Before leaving the site, the contractor shall:
  - a) Assess potential dose to licensee personnel working in the area or with the contractor;
  - b) Advise the RSO or designee of any procedural violations that occurred while the contractor was on site.

#### E. Emergency Procedures

Emergency procedures are to be instituted at the time of an incident involving devices containing radioactive material. Incidents could include fire or explosion on the site in an area where devices are installed or stored, the dislocation of a gauging device from its installed position, etc. The following guidelines should be followed in the event of an emergency.

1. Notify all other persons in the area, and evacuate at once.
2. Using an ENCOM, use the procedure in the box to call CODE RED. Indicate that a radioactive source is or maybe involved.
3. The Control Room will immediately call the appropriate emergency response agencies, fire department, etc. The Control Room will then notify the RSO.
4. Attempt to put out any fire by approved means if a radiation hazard is not immediately evident. Govern fire fighting or other emergency activities by the restrictions of the RSO.
5. In the case of a dislocated source, rope off an area with a 12-foot radius around the source, post the area and prevent entry. An Authorized User will perform a survey to determine potential exposure levels and will close the shutter if possible. He will then visually inspect the device to determine the physical damage. If the shutter cannot be closed, personnel other than Authorized Users will be directed away from the immediate area. The RSO or designee will supervise movement of the device to the storage area where it will be maintained until arrangements can be made for repair and reinstallation. If the device is directly involved in a fire or explosion, the RSO or designee will provide emergency response personnel with information regarding the locations of gauges, isotopes and activities involved. After the immediate threat has been resolved, the shutter will be closed, if possible; a visual inspection will be completed; and a radiation survey done to determine potential exposure levels in the immediate area.
6. No person should be permitted to return to the area without approval of the RSO or designee. A list should be maintained of all entries.
7. Call the manufacturer of the source for additional advice or assistance necessary.
8. If possible contamination is involved, the area of the accident should be restricted. Plant personnel should make only necessary entries and investigations in the accident area. No attempt should be made to open or examine contained material. No attempt should be made to clean up any debris or material involved in the accident prior to the arrival of properly trained and equipped individuals.
9. Prepare a complete history of the emergency and subsequent actions taken.
10. If notification is required under the regulations, the RSO or designee will notify the NRC Emergency Operations Center at (301) 816-5100. A list of notification requirements is found in Appendix P of NUREG 1556, Vol. 4. These include fire, theft and exposures to doses greater than allowed.

- III. Personnel Monitoring
  - A. The monitoring of personnel is not required in the normal daily operation of the facility. If for any reason an individual feels they are exposed to radiation from a controlled source contact the RSO immediately.
  - B. Note that all surveys are to be maintained for 3 years from the date of the survey. Initial installation surveys are to be kept permanently.
- IV. Quality Assurance
  - A. Radioactive materials used at the Verpol facility are used to determine levels and densities in the process stream. The sources are contained in sealed, shielded containment and are maintained and located such that there is not danger to employees. Surveys and audits are performed every 6 months to verify the safety and integrity of these devices.
  - B. All procedures are reviewed on an annual basis by the RSO.
- V. Training
  - A. The persons listed in section I.A. and I.B. are trained to handle sources and all activities surrounding them including non-routine operations.
  - B. All OMYA Inc., Verpol plant employees are trained on the basics of nuclear safety during their initial safety training and annually during the annual safety refresher.
- VI. Posting
  - A. At the present time there are no locations that require posting as a Radiation Area. Each installation will be reviewed by the RSO and determination will be made at that time as to the necessity of posting.
- VII. Compliance with Dose Limits
  - A. Dose limits are based on the latest edition of 10 CFR 20
    - 1. .1201 Occupational 500mrem/yr
    - 2. .1207 Minors 100mrem/yr
    - 3. .1208 Declared Pregnant Women 100mrem during pregnancy
    - 4. .1301 Members of the Public 100mrem/yr
  - B. Calculations for dose limits – Calculations are on file in the electrical shop.



## VIII. Surveys and Audits

- A. Every 6 months all sources are located and accounted for in the Verpol plant. At this time, a radiation/maintenance survey is completed on each source. Every three years a wipe test is performed.
- B. On a yearly basis, the RSO and/or Environmental Manager reviews the Radiation Protection Program.
- C. The survey meters are calibrated on a yearly basis.
- D. An audit of the program and procedures is performed on an annual basis.

## IX. Record Keeping

- A. The RSO is responsible to maintain any and all regulatory documents at the Verpol plant.
- B. All regulatory documents will be maintained in the electrical shop.

## X. Instrumentation

- A. The Verpol Electrical Maintenance Department under the consent of the RSO maintains all instrumentation related to nuclear sources. This is limited to the calibration, maintenance and repair of the electronics portion of level and density instrumentation.
- B. All instrumentation is to be calibrated on the cycle prescribed by the specific manufacturer.

## XI. Noticing and Posting Requirements

- A. All Notices, Instructions, and Reports to Workers are posted on the lunch room bulletin board. Additional information, i.e. NRC regulations, radioactive materials license, operating and emergency procedures and notices of violation is located on file in the electrical shop.
- B. The posting of all Notices, Instructions, and Reports to Workers is the responsibility of the RSO.

# Thermo MeasureTech

*TN Technologies + Kay Ray + Sensall*

2555 North IH-35  
Round Rock, TX 78664

(512) 388-9100  
(800) 736-0801  
Fax: (512) 388-9200  
[www.thermomeasuretech.com](http://www.thermomeasuretech.com)

## LETTER OF CERTIFICATION

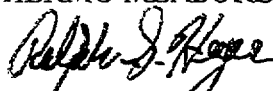
This is to certify that Thomas J. Sawyer of OMYA, Inc. has attended and successfully completed a 40-hour Industrial Radiation Safety Training course, conducted by Thermo MeasureTech the week of February 26-March 2, 2001, and described in the attached course outline. The participant received scores of 101.8% on the homework assignments and 105% on the exam, resulting in a final course grade of 103.7%. A course grade of 70% is considered a passing score. The class average was 93.4 %.

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 MEASURETECH



Ralph S. Heyer  
Radiation Safety Officer  
and Manager Regulatory Affairs

# *Certificate of Training*

This is to certify that

**Thomas J. Sawyer**

Has Successfully Completed

A 40-Hour Radiation Safety Training Course

Presented by Thermo MeasureTech

Date Issued: March 5, 2001

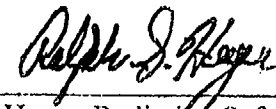
**Thermo MeasureTech**

2555 North IH-35

Round Rock, TX 78664



Bob Burkhart, Course Instructor



Ralph S. Heyer, Radiation Safety Officer

# *Certificate of Training*

This is to certify that

**Thomas J. Sawyer**


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

Date Issued: March 5, 2001 Expires: March 5, 2004

**Thermo MeasureTech**

2555 North IH-35

Round Rock, TX 78664



Bob Burkhardt, Course Instructor



Ralph S. Heyer, Radiation Safety Officer



TN Technologies  
Kay-Ray/Sensall

## LETTER OF CERTIFICATION

This is to certify that Timothy Elliot, of OMYA Inc., has attended and successfully completed a 40-hour Industrial Radiation Safety Training course, conducted by TN Technologies-Kay-Ray/Sensall the week of November 12-17, 2000, and described in the attached course outline. The participant received scores of 100.2% on the homework assignments and 94% on the exam, resulting in a final course grade of 96.5%. A course grade of 70% is considered a passing score. The class average was 89.9 %

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 TN-KSI 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.

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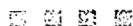
TN TECHNOLOGIES  
KAY-RAY/SENSALL

Ralph S. Heyer  
Radiation Safety Officer  
and Manager Regulatory Affairs

Kay-Ray/Sensall  
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[www.tn-technologies.com](http://www.tn-technologies.com)  
[sales@tn-technologies.com](mailto:sales@tn-technologies.com)

# Certificate of Training

This is to certify that

**Timothy Elliot**

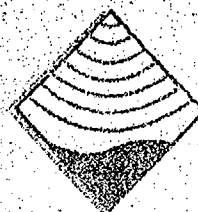
Has Successfully Completed

A 40-Hour Radiation Safety Training Course

Presented by TN Technologies Kay-Ray/Sensall

Date Issued: November 17, 2000

TN Technologies  
P.O. Box 800  
Round Rock, Texas  
78660



Kay-Ray Sensall  
1400 Business Center Dr.  
Suite 100  
Mt. Prospect, IL 60056

Bob Burkhart, Course Instructor

Ralph S. Heyer, Radiation Safety Officer

# Certificate of Training

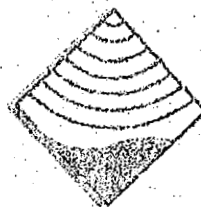
This is to certify that

## Timothy Elliot


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

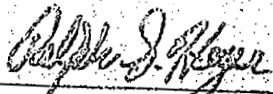
Date Issued: November 17, 2000, Expires: November 17, 2003

TN Technologies  
P.O. Box 800  
Round Rock, Texas  
78660



Kay-Ray Sensall  
1400 Business Center Dr.  
Suite 100  
Mt. Prospect, IL 60056

  
Bob Burkhart, Course Instructor

  
Ralph S. Heyer, Radiation Safety Officer

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Fax: (512) 388-9200  
[www.thermomeasuretech.com](http://www.thermomeasuretech.com)

August 27, 2002

## LETTER OF CERTIFICATION

This is to certify that Lucas Drinkwine of Omay Inc. has attended and successfully completed a 40-hour Industrial Radiation Safety Training course, conducted by Thermo MeasureTech the week of August 18-23, 2002 and described in the attached course outline. The participant received scores of 98.5% on the homework assignments and 88% on the exam, resulting in a final course grade of 92%. A course grade of 70% is considered a passing score. The class average was 89%.

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 MEASURETECH



Ralph Heyer  
Corporate Radiation Safety Officer  
and Manager of Technical Services



# *Certificate of Training*

This is to certify that

**Lucas Drinkwine**

Has Successfully Completed

A 40-Hour Radiation Safety Training Course

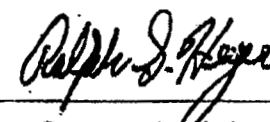
Presented by Thermo MeasureTech

Date Issued: August 27, 2002

**Thermo MeasureTech**

2555 North IH-35

Round Rock, TX 78664



Ralph Heyer, Corporate Radiation Safety Officer  
and Manager of Technical Services

# *Certificate of Training*

This is to certify that

**Lucas Drinkwine**

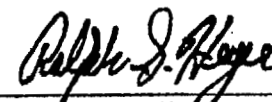
Has successfully completed general awareness, function-specific, and safety training applicable to the transport of nuclear gauging devices, and has been tested on these subjects as required by 49CFR172 Subpart H.

Date Issued: August 27, 2002 Expires: August 27, 2004

**Thermo MeasureTech**

2555 North IH-35

Round Rock, TX 78664



Ralph Heyer, Corporate Radiation Safety Officer  
and Manager of Technical Services

# *Training Certificate*

This is to certify that

*Ray Bradish*

has successfully completed factory training in:

**Radiation Safety School**

In accordance with this specific program  
this certificate is issued:

August 16, 1996

Date

*James D. Parsons*

Instructor

**Kay-Ray/Sensall**

**FISHER-ROSEMOUNT** Managing The Process Better.



INDUSTRIAL PROCESS CONTROL EQUIPMENT

390 Holbrook Drive • Wheeling, IL 60090 • (312) 520-1100 • TELEX: 281-085 • CABLE: KAYRAY • FAX: (312) 520-1101

CERTIFICATION OF TRAINING

Name: Evan Truchon

Company: Omya, Inc.

The above named individual has successfully completed the INSTALLATION AND NUCLEAR RADIATION SAFETY COURSE offered by Kay-Ray, Inc., consisting of the following curriculum:

- Principles and practices of radiation protection
- Monitoring radiation levels using Geiger counters
- Radiation exposure limits
- Radiation areas defined
- Calculating radiation levels from known gamma source size and distances
- Calculating dose rates of typical installation
- Leak testing Kay-Ray source housings
- Safety practices required for the use and handling of Kay-Ray source housings
- Installation of source housings demonstration and Hands-On installation

This training course consists of formal discussions, practical applications, leak testing, specific installation discussions, and hands-on installation completion with related forms for record keeping.

Certified on Equipment

Model 7050B, 7062, 7062B, 7062BP, 7062P, 7063, 7063P

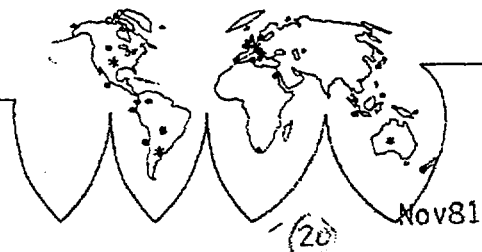
Instructor: Raymond A. Parsons

Date: October 30, 1987

Max L. Richardson  
Vice President of Operations

## WORLDWIDE SALES AND SERVICE OFFICES:

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Nov81



INDUSTRIAL PROCESS CONTROL EQUIPMENT

390 Holbrook Drive • Wheeling, IL 60090 • (312) 520-1100 • TELEX: 281-085 • CABLE: KAYRAY • FAX: (312) 520-1101

CERTIFICATION OF TRAINING

Name: Ivan J. Bedell

Company: Omya, Inc.

The above named individual has successfully completed the INSTALLATION AND NUCLEAR RADIATION SAFETY COURSE offered by Kay-Ray, Inc., consisting of the following curriculum:

- Principles and practices of radiation protection
- Monitoring radiation levels using Geiger counters
- Radiation exposure limits
- Radiation areas defined
- Calculating radiation levels from known gamma source size and distances
- Calculating dose rates of typical installation
- Leak testing Kay-Ray source housings
- Safety practices required for the use and handling of Kay-Ray source housings
- Installation of source housings demonstration and Hands-On installation

This training course consists of formal discussions, practical applications, leak testing, specific installation discussions, and hands-on installation completion with related forms for record keeping.

Certified on Equipment

Model 7050B, 7062, 7062B, 7062BP, 7062P, 7063, 7063P

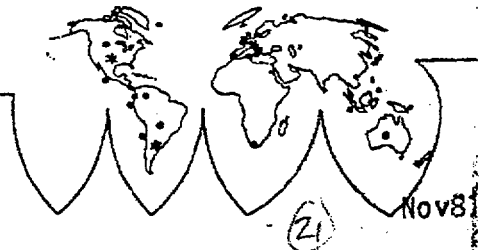
Instructor: Raymond A. Parsons

Date: October 30, 1987

*Max L. Richardson*  
Max L. Richardson  
Vice President of Operations

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Telex 62970165  
Fax (708) 803-5466

**CERTIFICATION OF TRAINING**

Name: George A. Saunders III  
Company: Omya, Inc.

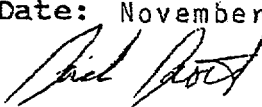
The above named individual has successfully completed the  
INSTALLATION AND NUCLEAR RADIATION SAFETY COURSE offered by  
Kay-Ray, Inc., consisting of the following curriculum:

- Principles and practices of radiation protection
- Monitoring radiation levels using Geiger counters
- Radiation exposure limits
- Radiation areas defined
- Calculating radiation levels from known gamma source  
size and distance
- Calculating dose rates of typical installation
- Leak testing Kay-Ray source housings
- Safety practices required for the use and handling of  
Kay-Ray source housings
- Installation of source housings demonstration and  
hands-on installation

The training course also includes discussions on practical  
applications, installations, leak testing procedures,  
radiation surveys, and completion of related forms.

Certified on Equipment Models: 7050, 7050B, 7051, 7051B,  
7052, 7054, 7062, 7062B, 7062BP, 7062H, 7062P, 7062PH, 7063,  
7063S, 7063P, 7063PS, 7063PH, 7064, 7064P, 7067, 7067P, 7069,  
7069P, 7080, 7100A, 7100B, 7100CT, 7100CT, 7102, 7103, 7104,  
7105, 7106, 7107, and 7108.

Instructor: Raymond A. Parsons  
Date: November 17, 1989

  
Rick Roth  
National Service Manager



INDUSTRIAL PROCESS CONTROL EQUIPMENT

390 Holbrook Drive • Wheeling, IL 60090 • (312) 520-1100 • TELEX: 281-085 • CABLE: KAYRAY • FAX: (312) 520-1101

CERTIFICATION OF TRAINING

Name: Gerard H. Coursey

Company: CDP Electric, Inc.

The above named individual has successfully completed the INSTALLATION AND NUCLEAR RADIATION SAFETY COURSE offered by Kay-Ray, Inc., consisting of the following curriculum:

- Principles and practices of radiation protection
- Monitoring radiation levels using Geiger counters
- Radiation exposure limits
- Radiation areas defined
- Calculating radiation levels from known gamma source size and distances
- Calculating dose rates of typical installation
- Leak testing Kay-Ray source housings
- Safety practices required for the use and handling of Kay-Ray source housings
- Installation of source housings demonstration and Hands-On installation

This training course consists of formal discussions, practical applications, leak testing, specific installation discussions, and hands-on installation completion with related forms for record keeping.

Certified on Equipment

Model 7050B, 7062, 7062B, 7062BP, 7062P, 7063, 7063P

Instructor: Raymond A. Parsons

Date: October 30, 1987

Max L. Richardson  
Vice President of Operations

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