



**Trow Protze Consulting Engineers**

67 Fourth Avenue  
Needham Heights, MA 02194

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January 31, 1994

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555

Attention: Document Control Desk

Subject: Reply to a Notice of Violation  
Trow Protze Consulting Engineers  
Document No. 030-31470  
License No. 20-28469-01

Gentlemen:

We are in receipt of your letter dated January 05, 1994, regarding the routine inspection conducted at our facility by Mr. Anthony Kirkwood on December 01, 1993, and herewith present our written response to the identified violation of NRC requirements.

We would first like to thank the NRC and particularly Mr. Kirkwood for conducting a thorough inspection of our licensed activities.

In response to the violation of Condition No. 11.A of License No. 20-28469-01, we offer the following:

Condition No. 11.A of our license requires that the licensee maintain records of individuals designated as users for three years following the last use of licensed material by the individual.

We are aware of this condition in our license and had been in compliance with its requirements. However, it appears that during the recent relocation of our office to 67 Fourth Avenue, Needham Heights, Massachusetts, 02194, these records were misplaced or lost.

Since the December 01, 1993 inspection we have contacted Humboldt Scientific, Inc., the company who manufactured our nuclear gauges and certified our personnel, and they have issued to us copies of training certificates for the personnel in question (see attached).

The users of the devices for the dates outlined in the Notice of Violation were as follows:

<u>DATE OF USE</u>	<u>USER</u>	<u>CERTIFICATION NO.</u>	<u>DATE CERTIFIED</u>
July 02, 1991	Julie MacKinnon	304	February 10, 1990
July 02, 1991	David Garland	312	February 10, 1990
December 06, 1991	Colin MacGillivray	305	February 10, 1990

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These certificates have been filed with our Radiation Safety Officer and copies have been placed in each individual's personnel file so that we are now in full compliance with the NRC requirements.

However, as a result of the recent inspection we have discovered an additional violation which we were not aware of. We offer the following explanation of this violation:

Prior to me becoming Branch Manager in April 1993 and Patrick Murphy becoming Radiation Safety Officer (RSO) in June 1993, Mehmood Velji served both functions for Trow Protze. During Mr. Velji's tenure as Manager and RSO, two additional field technicians, Mr. William Mahoney and Mr. Ronald Zampine, were given a course on radiation safety and proper operation of the nuclear gauges by the RSO from our Chicago, Illinois branch office.

At the time of our appointments to Manager and RSO, Mr. Murphy and I believed all our field technicians were properly certified to use the nuclear gauges. However, after the December 01, 1993 inspection by the NRC, our own research (including discussions with Mr. Richard Berry of Humboldt Scientific, Inc.) indicates that the gentleman who administered the course to Mr. William Mahoney and Mr. Ronald Zampine was not recognized by the NRC as someone qualified to teach the course.

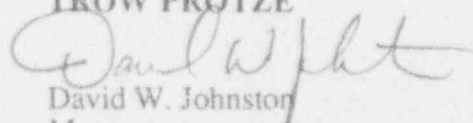
Since discovery of this error, we arranged for Humboldt Scientific, Inc. to hold a nuclear gauge training class at our office to properly certify the subject technicians and thus be in full compliance with NRC requirements. This class was held on January 26, 1994, and we have enclosed the technicians' certificates for your review.

We also had our remaining field technicians who had never used the nuclear gauges certified to ensure this violation does not occur again.

We would like to assure the NRC that these violations were truly unintentional and we have taken the necessary steps to correct the problems and prevent them from happening again. Trow Protze is committed to carrying out all our nuclear gauge activities in full compliance with NRC regulations.

Please contact the undersigned should you have any questions or require additional information.

Yours very truly,  
**TROW PROTZE**



David W. Johnston  
Manager

cc: Regional Administrator, Region I

Enclosure

# HUMBOLDT SCIENTIFIC, INC.

## NUCLEAR GAGE TRAINING CERTIFICATION

David Garland

HAS SUCCESSFULLY COMPLETED A CERTIFIED COURSE ON  
RADIATION SAFETY, TRANSPORT AND OPERATION OF  
INSTRUMENTS USING GAMMA AND NEUTRON RADIATION  
TO MEASURE THE PHYSICAL PROPERTIES OF  
CONSTRUCTION MATERIALS

Subjects included were:

Types and basic units of ionizing radiation.  
Calculations related to radiation safety.  
Biological effects of radiation.  
Methods of protection.  
Leak testing procedures.  
Procedures for safe transport and storage.  
Federal and State Regulations.

Accident prevention and procedures  
Instrument theory and operation.  
Limitations of field maintenance.  
Instrument standardization and calibration.  
Test site selection and preparation.  
Field operation and calculations.  
Types and reasons for measurement errors.

Date of Training: February 10, 1990

Location: Newton Highlands, MA

Certificate Number: 312

A. Henry  
Instructor  
Humboldt Scientific, Inc.  
551-D Pylon Drive  
Raleigh, NC 27606

# HUMBOLDT SCIENTIFIC, INC.

## NUCLEAR GAGE TRAINING CERTIFICATION

Colin MacGillivray

HAS SUCCESSFULLY COMPLETED A CERTIFIED COURSE ON  
RADIATION SAFETY, TRANSPORT AND OPERATION OF  
INSTRUMENTS USING GAMMA AND NEUTRON RADIATION  
TO MEASURE THE PHYSICAL PROPERTIES OF  
CONSTRUCTION MATERIALS

Subjects included were:

Types and basic units of ionizing radiation.  
Calculations related to radiation safety.  
Biological effects of radiation.  
Methods of protection.  
Leak testing procedures.  
Procedures for safe transport and storage.  
Federal and State Regulations.

Accident prevention and procedures.  
Instrument theory and operation.  
Limitations of field maintenance.  
Instrument standardization and calibration.  
Test site selection and preparation.  
Field operation and calculations.  
Types and reasons for measurement errors.

Date of Training: February 10, 1990  
Location: Newton Highlands, MA  
Certificate Number: 305

A. H. Brey  
Instructor

Humboldt Scientific, Inc.  
551-D Pylon Drive  
Raleigh, NC 27606

# HUMBOLDT SCIENTIFIC, INC.

## NUCLEAR GAGE TRAINING CERTIFICATION

Julie H. Mackinnon

HAS SUCCESSFULLY COMPLETED A CERTIFIED COURSE ON  
RADIATION SAFETY, TRANSPORT AND OPERATION OF  
INSTRUMENTS USING GAMMA AND NEUTRON RADIATION  
TO MEASURE THE PHYSICAL PROPERTIES OF  
CONSTRUCTION MATERIALS

Subjects included were:

Types and basic units of ionizing radiation.  
Calculations related to radiation safety.  
Biological effects of radiation.  
Methods of protection.  
Leak testing procedures.  
Procedures for safe transport and storage.  
Federal and State Regulations.

Accident prevention and procedures.  
Instrument theory and operation.  
Limitations of field maintenance.  
Instrument standardization and calibration.  
Test site selection and preparation.  
Field operation and calculations.  
Types and reasons for measurement errors.

Date of Training: February 10, 1990

Location: Newton Highlands, MA

Certificate Number: 304

A. L. [Signature]  
Instructor

Humboldt Scientific, Inc  
551-D Pylon Drive  
Raleigh, NC 27606

# HUMBOLDT SCIENTIFIC, INC.

## NUCLEAR GAGE TRAINING CERTIFICATION

William J. Mahoney

HAS SUCCESSFULLY COMPLETED A CERTIFIED COURSE ON  
RADIATION SAFETY, TRANSPORT AND OPERATION OF  
INSTRUMENTS USING GAMMA AND NEUTRON RADIATION  
TO MEASURE THE PHYSICAL PROPERTIES OF  
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Accident prevention and procedures.  
Instrument theory and operation.  
Limitations of field maintenance.  
Instrument standardization and calibration.  
Test site selection and preparation.  
Field operation and calculations.  
Types and reasons for measurement errors.

Date of Training: January 26, 1994  
Location: Needham, MA  
Certificate Number: 642

*A. B. ...*  
Instructor

Humboldt Scientific, Inc.  
551-D Pylon Drive  
Raleigh, NC 27606

# HUMBOLDT SCIENTIFIC, INC.

## NUCLEAR GAGE TRAINING CERTIFICATION

Ronald E. Zampine

HAS SUCCESSFULLY COMPLETED A CERTIFIED COURSE ON  
RADIATION SAFETY, TRANSPORT AND OPERATION OF  
INSTRUMENTS USING GAMMA AND NEUTRON RADIATION  
TO MEASURE THE PHYSICAL PROPERTIES OF  
CONSTRUCTION MATERIALS

Subjects included were:

Types and basic units of ionizing radiation.  
Calculations related to radiation safety.  
Biological effects of radiation.  
Methods of protection.  
Leak testing procedures.  
Procedures for safe transport and storage.  
Federal and State Regulations.

Accident prevention and procedures.  
Instrument theory and operation.  
Limitations of field maintenance.  
Instrument standardization and calibration.  
Test site selection and preparation.  
Field operation and calculations.  
Types and reasons for measurement errors.

Date of Training: January 26, 1994

Location: Needham, MA

Certificate Number: 644

A. Burg  
Instructor

Humboldt Scientific, Inc.  
551-D Pylon Drive  
Raleigh, NC 27606