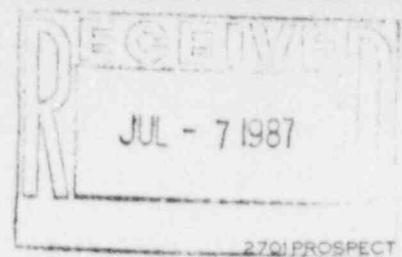


# DEPARTMENT OF HIGHWAYS



TED SCHWINDEN, GOVERNOR

STATE OF MONTANA

HELENA, MONTANA 59620

June 30, 1987

Mr. Jerry Everett, Chief  
Material Radiation Protection Section  
U.S. Nuclear Regulatory Commission  
611 Ryan Plaza Drive, Suite 1000  
Arlington, TX 76011

'87 JUL -9 18:33

## REQUEST FOR AMENDMENT TO NRC LICENSE

The Materials Bureau of the Montana Department of Highways operates and maintains nuclear moisture/density and asphalt content gauges under the provisions of NRC license #25-11498-01.

Please review the attached record of education and training of Mr. Joseph P. Liuzza and rule on the following amendment requests:

- That Mr. Liuzza be certified to instruct field personnel of the Montana Department of Highways in the principles of radiation safety and theory and in the use of nuclear moisture/density and asphalt content gauges.
- That Mr. Liuzza may issue certificates to field personnel who have successfully completed his course of instruction, thereby authorizing them to use nuclear moisture/density and asphalt content gauges.
- That Mr. Liuzza be allowed to perform wipe-tests on the sources listed on license #25-11498-01.
- That Mr. Liuzza be authorized to provide any or all of the 80 hours of instruction the NRC requires of an individual who is seeking certification as a radiation safety instructor.

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REG4 LIC30  
25-11498-01 PDR

FEE EXEMPT

170.116.55 - State

AN EQUAL OPPORTUNITY EMPLOYER

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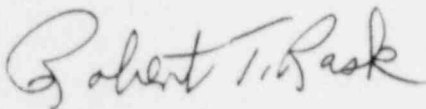
Jerry Everett  
June 30, 1987  
Page 2

- e. That Mr. Liuzza be authorized to perform maintenance or repair of portable devices as described in item 15 of Amendment No. 12. He will follow the procedures stipulated in the letter of June 26, 1978, page 3, paragraphs 1 and 7, and the letter of August 17, 1978.

As the Radiation Safety Officer, I have thoroughly discussed radiation safety and nuclear gauge repair with Mr. Liuzza. Note that he has recently completed an 8-hour radiation safety & training course by a licensed instructor. He is also working side by side with an employee (Mr. Boyd Bomar) who has over 15 years experience in the radiation safety, maintenance and repair of these gauges. I am confident that with his education and background he meets the qualifications to perform the tasks as listed above.

In addition, we request that the name of Mr. Richard L. Vimpany, who is no longer an employee of the Montana Department of Highways, be disregarded in the reading of the documents listed in item 18 of Amendment No. 12.

I would appreciate action as soon as possible.



ROBERT T. RASK, CHIEF  
MATERIALS BUREAU

RTR:JPL:lrk:1:pp:

cc: R. T. Rask  
S. L. Herzog  
J. P. Liuzza

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## JOSEPH P. LIUZZA

## RECORD OF RADIATION TRAINING AND EXPERIENCE

TRAINING

<u>DATE</u>	<u>COURSE OF STUDY</u>	<u>TOPICS COVERED</u>	<u># APPLICABLE CONTACT HOURS</u>
July 1977	Schlumberger Radiation Safety New Orleans, Louisiana Instructor: RSO	Radiation theory, safety, handling and transportation, emergency procedures. Use of radioactive materials in oil well logging.	8
June 1987	Montana State University RTAP Bozeman, Montana Instructor: Mr. Alan Jackson	Radiation theory, safety, handling and transportation, emergency procedures. Use of radioactive gauges in construction.	8

FORMAL EDUCATION, UNDERGRADUATE, UNIVERSITY OF NEW ORLEANS

September 1970	Modern Physics with Lab	Compton scattering, photoelectric effect, quantum concepts.	15
January 1971	Electrical Measurements	Oscilloscope, power supplies instrumentation.	6
June 1971	Quantum Mechanics	Scattering, electromagnetic waves and particles, cross section, absorption and emission.	15
September 1971	Atomic Physics	Spectra, periodic system, radioactivity, relativity, atomic models, x-rays.	15
January 1972	Nuclear Physics	Nuclear properties, nucleon scattering, radiation detection, radiation statistics, gamma transitions, alpha and beta decay.	30

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FORMAL EDUCATION, GRADUATE, UNIVERSITY OF NEW ORLEANS

January 1974	Quantum Theory	Advanced treatment of previously mentioned topics.	15
June 1974	ADV Quantum Theory	Advanced treatment of previously mentioned topics.	15
September 1974	Nuclear and Particle Physics	Spectroscopy, accelerators, resonance, leptons, baryons, meson theory.	15

FORMAL EDUCATION, GRADUATE, MONTANA STATE UNIVERSITY

September 1975	Relativity	High Energy Particles	5
September 1975	ADV Quantum Theory	Advanced Topics	15
January 1976	Atomic and Molecule Structure	Advanced Topics	15
January 1977	Statistical Mechanics	Statistical Treatment of particles	5
			<u>182</u>

RELATED EXPERIENCE

Physics Graduate Teaching Associate, University of New Orleans, 1973 - 1975 and at Montana State University, 1975 - 1977. Instructed students in principles of quantum theory, atomic and nuclear theory, operation of electronic instruments.

Field Engineer, Schlumberger Offshore Services, New Orleans, 1977 - 1979. Operated nuclear density and porosity tools, detectors, and associated electronics for oil well logging operations.

Physics Instructor, Carroll College, Helena, Montana, 1984-1986. Instructed students in electromagnetic theory, electrical engineering and electronics.

Master of Science degrees in Physics and Applied Mathematics.

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