

December 14, 1990

TO: Dr. Alfred A. Amendola
Deputy Director,
Division of Safety Research,
NIOSH, CDC,
Morgantown, WV

SUBJECT: NIOSH Assessment of Performance Levels for Industrial Respirators: Prerulemaking Technical Conference. January 9-11, 1991. Attendance.

The below two representatives of the Lawrence Livermore National Laboratory wish to attend the above mentioned conference and make oral presentations.

Dr. James S. Johnson, CIH
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Livermore, CA 54550
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Robert A. da Roza
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Each will need about 30 minutes to make their presentations.

Topics to be covered by Mr da Roza are associated with the validation of a simulated workplace protection factor measurement protocol. They are: linearity of the photometer response to aerosol concentration; loss of aerosol in the sampling line; the effect of moisture, carbon dioxide, and subject generated aerosols; comparison of gas leakage with aerosol leakage; the measurement of challenge aerosol mass by non-gravimetric means; the stability of the challenge aerosol particle size distribution; and bias produced by sample probe location (through the lense and below the exhalation valve) and leak location (temple, cheek and forehead) for both air-purifying and air-supplying respirators.

Topics to be covered by Dr Johnson are: the purpose for measurment of respirator performance, the pros and cons of current methods used to measure workplace respirator performance, concerns over proposed tests to measure workplace protection factors and the "ultimate way" to measure respirator performance - biological monitoring of the respirator user.

Sincerely,


Robert A. da Roza

---UNCLASSIFIED---

FAX TRANSMITTAL SHEET

**LAWRENCE LIVERMORE NATIONAL LABORATORY
HAZARDS CONTROL DEPARTMENT
SPECIAL PROJECTS DIVISION**

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MESSAGE: Attendance at NIOSH Conference
on Respirator Performance.

SPD