



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

June 13, 2003

Ron Siebert
Met One Instruments
1600 Washington Blvd.
Grants Pass, OR 97526

Dear Mr. Siebert:

This letter is in reference to your application dated February 11, 2003, requesting an amendment to NRC Certificates NR-1124-D-101-E and NR-1124-D-102-E, and electronic mail correspondence dated June 5, 2003, and June 9, 2003, regarding the use of calibration sources in Met One Models BAM-1020 and E-BAM detector devices. In order to complete our review, please refer to the Enclosure for background information and additional information required.

We will continue our review upon receipt of this information. If we do not receive a response from you in 30 days, we will consider your request as having been abandoned and void the active control for your request. This action would be without prejudice to the resubmission of another request.

If you have any questions, please contact me at (301) 415-7894, or John Jankovich at 301-415-7904.

Sincerely,


Ujagar S. Bhachu, C Eng., P Eng., FI Mech E
Materials Safety and Inspection Branch
Division of Industrial and
Medical Nuclear Safety
Office of Nuclear Material Safety
and Safeguards

Enclosure: As Stated

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Met One Instruments, by a letter dated February 11, 2003, requested the use of Canberra calibration sealed sources in Models BAM-1020 and E-BAM aerosol detector devices. Met One is proposing to use the Canberra calibration sealed sources for another purpose than their intended use and function; i.e, Met One intends to install these calibration sources into an aerosol detector device to monitor air pollution. The source Models C14-60 and C14-100, for which Met One Instrument is seeking NRC authorization for use in these devices, have not been evaluated for this purpose.

In addition, the Model C14-100 contains an activity level of 100 microcurries which is in excess of 75 microcurries maximum limit currently stated in the Met One sealed source and device registration certificates requiring new safety evaluation.

Specific requirements, applicable to Met One's devices, that must be addressed during the product evaluation with the Canberra sources are listed below:

Area to be Addressed	Applicable 10 CFR Regulations
Design	30.20(a), 32.26(b)
Maximum Radiation Levels	32.26(b)(6)
Maximum Dose Commitments	32.26(b)(13) & (14)
Labeling	32.29(b)

These regulatory requirements apply to the Met One products. Therefore, the product evaluation review considers the design integrity of the radioactive source in the product as a complete unit.

In summary, NRC needs a complete application from Met One regarding the design, containment, shielding, quality control, prototype testing and labeling related to the two aerosol detectors with both models of the Canberra sources in each of your models. Please address these subjects with a narrative and technical description, provide test data or the results of engineering analyses for prototype testing and maximum radiation levels. In preparing your response, you may use the NRC guidance available in NUREG-1556 Volume 3 (available at <http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1556/>). Specifically, please note Section 10 in the guidance which lists each subject areas that NRC reviews in the safety evaluation. In your response, please provide the information that is applicable to your product as Section 10 delineates the technical content in each of the subject areas.

Enclosure