



Beta Source Recycling and Disposal

The Met One Instruments BAM-1020 and E-BAM product lines contain a small Carbon 14 beta radiation emitting source. The activity of the beta source is 60 ± 15 microcurries, and the source has a half-life of about 5730 years. It should never need to be replaced or serviced within the service lifetime of the instrument.

Disposal of the Unit

In the United States, the $60 \mu\text{Ci}$ activity is below the "Exempt Concentration Limit" as defined in 10 CFR Section 30.71 – Schedule B. The owner of the instrument is not required to obtain any license to possess the unit, and is not required to return decommissioned units to the manufacturer for disposal of the beta source. However, regulations for the ownership and disposal of radioactive material vary in other countries.

Met One Instruments, Inc. has a free recycling program for our instruments which contain beta sources. When the instrument has reached the end of its service life or has been decommissioned, it may be returned to the factory in Grants Pass, Oregon where the instrument and the beta source will be recycled properly by trained technicians. We recommend that all BAM-1020 or E-BAM users take advantage of this recycling program, even if not required to by law. The following conditions should be observed:

- The instrument owner should contact Met One Instruments, and obtain a Return Authorization (RA) number, which should accompany the instrument back to the factory.
- The beta source must not be removed from the instrument assembly or shipped back separately. The whole instrument should be shipped back intact.
- The metal NRC identification tag, which is riveted to the instrument case inside the front door, must be intact in order for the instrument to be shipped to or within the United States.

Please contact the our Technical Service department with any questions or to obtain an RA number.

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