

Docket File Information
SAFETY INSPECTION REPORT AND COMPLIANCE INSPECTION

1. LICENSEE/LOCATION INSPECTED: Cammenga and Associates, Inc. 2011 Bailey Street Dearborn, MI 48124 REPORT NUMBER(S) 2013-001 and 2013-001	2. NRC/REGIONAL OFFICE Region III U. S. Nuclear Regulatory Commission 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352
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3. DOCKET NUMBER(S) 030-330009 and 030-33020	4. LICENSE NUMBER(S) 21-26460-01 and 21-26460-02E	5. DATE(S) OF INSPECTION 8/15/2013
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6. INSPECTION PROCEDURES USED 87125	7. INSPECTION FOCUS AREAS All
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SUPPLEMENTAL INSPECTION INFORMATION

1. PROGRAM CODE(S) 03214 and 03254	2. PRIORITY 5	3. LICENSEE CONTACT Deborah Spyker - RSO	4. TELEPHONE NUMBER (616) 392-7999
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<input checked="" type="checkbox"/> Main Office Inspection <input type="checkbox"/> Field Office Inspection <input type="checkbox"/> Temporary Job Site Inspection	Next Inspection Date: August 2018
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PROGRAM SCOPE

This licensee is an instrument manufacturer authorized by its NRC byproduct materials licenses to produce and distribute compasses and knives containing luminous sealed sources of tritium (hydrogen-3) in exempt quantities from its facility in Dearborn, Michigan. The licensee receives its sealed sources from a supplier in Switzerland, then distributes around 80,000 to 90,000 tritium-bearing compasses annually to the military and to other domestic and international customers. The licensee has not yet begun distribution of any tritium-bearing knives, but intends to do so in the near future. The licensee performs monthly inventories of vials in storage and of all finished products, then reconciles them against semiannual inventories of all sealed sources. Staff are monitored for intake of tritium by means of monthly in-vitro bioassay. The radiation safety program is audited annually by the licensee's financial controller.

PERFORMANCE OBSERVATIONS

The inspector toured the facility and found the tritium vial storage area adequately posted and secured. The inspector observed several technicians using licensed material as they assembled compass components. Interviews with one of these technicians revealed an adequate level of understanding of radiation protection principles and licensee procedures. The RSO demonstrated package receipt and shipping procedures, diffusion (leak) testing of the incoming sealed sources, area contamination surveys, waste handling, and liquid scintillation counter use. The inspector discussed with the RSO procedures for inventory control, broken vial response, used compass recycling and in-vitro bioassay. The inspector also verified that the tritium-bearing watches currently for sale by the licensee (but not authorized on its license) were assembled and originally distributed by another company.

The inspector reviewed a selection of licensee records, including monthly sanitary sewer release calculations, periodic reports of transfer as required by 10 CFR 32.25(c), monthly and semiannual inventories, shipping records to demonstrate compliance with NRC export requirements, bioassay measurements, area survey results, training records, and annual program audits.

No violations of NRC requirements were identified as a result of this inspection.