



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

June 8, 2010

Docket No. 03033025
Control No. 144720

License No. 06-30007-01

K. Paul Steinmeyer
President and Radiation Safety Officer
Radiation Safety Associates, Inc.
19 Pendleton Drive
P.O. Box 107
Hebron, CT 06248-0107

**SUBJECT: RADIATION SAFETY ASSOCIATES, INC., REQUEST FOR ADDITIONAL
INFORMATION CONCERNING APPLICATION FOR AMENDMENT TO
LICENSE, CONTROL NO. 144720**

Dear Mr. Steinmeyer:

This is in reference to your letter dated May 27, 2010 requesting to amend Nuclear Regulatory Commission License No. 06-30007-01. In order to continue our review, we need the following additional information:

1. In your application you have requested authorization for source material, specifically thorium-232 (Th-232) up to 9.9 millicuries. Since source material includes uranium as well as thorium, please confirm that you are limiting your request to thorium for the specific purpose described in your amendment request. Also, if your amendment request is approved, we will indicate the authorized amount of thorium to be possessed in mass units (kilograms), equivalent to the quantity of material that you have requested in activity units (millicuries).
2. Please confirm that in section 2.a. of your amendment request, the applicable regulatory reference should be 10 CFR 40.61.
3. Please confirm that in section 2.b. of your amendment request, the applicable regulatory reference should be 10 CFR 20.2101 through 20.2110.
4. Your application did not address emergency procedures. Please confirm that you will develop and post emergency procedures commensurate with the use of the equipment described in your amendment request. Appendix P of NUREG-1556, Volume 7 may be helpful in developing your procedures. We will review these procedures during your next routine inspection.
5. Submit a diagram showing the proposed locations of the equipment in the restricted area, the proximity of radioactive material to unrestricted areas, and other items related to radiation safety. Also, please include the proposed location for the ventilation unit described in section 9.4 of your letter and the expected ventilation flow path relative to the equipment operator. Diagrams should be drawn to a specified scale, or dimensions

should be indicated.

6. The individual(s) who will operate the sandblasting equipment under the supervision of a responsible individual need not be designated by name; however, confirm that equipment operators will be trained on: (1) the principles and fundamentals of radiation safety, (2) the use of radiation detection instruments, and (3) your operating and emergency procedures for this equipment.
7. In section 9.5. of your amendment request, you indicate the presence of a reference drawing, but it is not clear that a drawing is applicable to this section. Please provide this drawing or indicate that this drawing is not applicable to this section.
8. The thorium possession limit requested in your letter does not require that you submit financial assurance in accordance with the requirements of 10 CFR 40.36(b). Since your license does not currently authorize any additional source material, we will amend current condition 12 of your license to reflect that 10 CFR 40.36(b) is not applicable to your current and requested possession limit for source material.

Current NRC regulations and guidance are included on the NRC's website at www.nrc.gov; select **Nuclear Materials; Medical, Academic, and Industrial Uses of Nuclear Material; then Regulations, Guidance, and Communications**. You may also obtain these documents by contacting the Government Printing Office (GPO) toll-free at 1-866-512-1800. The GPO is open from 7:00 a.m. to 6:30 p.m. EST, Monday through Friday (except Federal holidays).

We will continue our review upon receipt of this information. Please reply to my attention at the Region I Office and refer to Mail Control No. 144720. If you have any technical questions regarding this deficiency letter, please call me at (610) 337-5355.

If we do not receive a reply from you within 30 calendar days from the date of this letter, we will assume that you do not wish to pursue your application.

Sincerely,

Original signed by Kathy Modes

Judith A. Joustra, Chief
Decommissioning Branch
Division of Nuclear Materials Safety

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SUNSI Review Complete: MRoberts

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DATE	6-8-2010		6-8-2010					

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