



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
2100 RENAISSANCE BOULEVARD, SUITE 100
KING OF PRUSSIA, PENNSYLVANIA 19406-2713

February 21, 2013

Docket No. 03019080
Control No. 579681

License No. 47-19672-01

Michael R. Mannon
President/RSO
Riley, Mannon & Sturgeon Ltd.
P.O. Box 517
Barboursville, WV 25504

SUBJECT: RILEY, MANNON & STURGEON LTD., REQUEST FOR ADDITIONAL INFORMATION CONCERNING APPLICATION FOR RENEWAL OF LICENSE, CONTROL NO. 579681

Dear Mr. Mannon:

This is in reference to your application dated December 27, 2012, requesting to renew Nuclear Regulatory Commission License No. 47-19672-01. In order to continue our review, we need the following additional information:

1. Your application does not address whether the Radiation Safety Officer (RSO) has the authorization from management to stop any unsafe operation involving the use of licensed material. Please confirm that the RSO has such an authorization from management to stop any unsafe operation involving the use of licensed material.
2. The description of your operating and emergency procedures did not include sufficient information to complete our review. Please provide additional information on the following procedure(s):
 - a. Your procedure in section I.F.3 which provides your training program, references 10 CFR Part 9.61(e). We believe this may be an error and should reference 10 CFR Part 39.61(e). Please confirm correct reference.
 - b. Your logging supervisor and logging assistant exams do not include any questions relative to the required US DOT security awareness component. Please confirm how you will comply with 10 CFR Part 71 and Subpart H of the DOT regulations (49 CFR Part 172). You may find Appendix S in NUREG-1556, Volume 14 helpful in preparing your response.
 - c. Your procedure in section V for a lodged source requires a written agreement between you and the well owner/operator prior to performing well logging operations. Specifically this procedure did not include your procedure for emergency abandonment of sources. Please revise and resubmit your procedures. You may find Section 8.10.9.2 in NUREG-1556, Volume 14 helpful in preparing your response.

- d. Generation and maintenance of records. Specifically, these procedures did not include a commitment for the maintenance of records. Please revise and resubmit your procedures. You may find Section 8.10.4 in NUREG-1556, Volume 14 helpful in preparing your response.
3. Your description of contamination survey procedures for a ruptured source does not include sufficient information to complete our review. Please confirm if these procedures will be performed by an outside company or you. If performed by you, please provide the following information relating to the instrumentation utilized for determining the extent of any possible contamination:
 - a. A description of how and where test samples will be taken;
 - b. A description of the materials used and methods of handling samples to prevent or minimize exposure to personnel;
 - c. A description of the instrument that will be used for analyzing the sample, the counting efficiency and minimum levels of detection for each radionuclide to be measured;
 - d. A description of the standard sources used to calibrate the instrument. For each source, specify the radionuclide, quantity, accuracy, and traceability to primary radiation standards;
 - e. Provide a sample calculation for conversion of the measurement data to becquerels (Bq) or microcuries (uCi);
 - f. Qualifications of the individuals who will be performing the analyses;
 - g. Please confirm if decontamination activities will be performed by a company licensed by the NRC or Agreement State to provide such services.
4. Your described training program for logging supervisors and logging assistants does not include sufficient information to complete our review. Please submit the qualifications of your instructors in radiation safety principles and describe their experience with well logging operations. If training will be conducted by someone outside your organization, identify the course by title and provide the name and address of the company providing the training. You may find Appendix L in NUREG-1556, Volume 14 helpful in preparing your response.
5. License condition 12, of amendment no. 5 of your license, states, in part, that licensed material shall be used by Patrick P. Riley, however your renewal application does not list his name as an authorized user. Please confirm that you wish to remove his name from the license.
6. In your application you reference your two offices and who they report to on regulatory

issues. Please note that all radioactive material licensing for West Virginia is governed by the USNRC Region I office in King of Prussia, PA, and the licensing and use in Pennsylvania is governed by the Commonwealth of Pennsylvania, located in Harrisburg, PA. Please update your procedures and guidance to reflect those changes.

7. Your description of your maintenance program does not adequately address whether the removal and/or maintenance of the sealed sources will be performed by you or another licensed entity. Please confirm what maintenance you wish to perform beyond the basic cleaning and O-ring changing, if any. Please submit those procedures. You may find section 8.10.9 in NUREG-1556, Volume 14 helpful in preparing your response.

Current NRC regulations and guidance are included on the NRC's website at www.nrc.gov; select **Nuclear Materials; Med, Ind, & Academic Uses**; then **Licensee Toolkits, see our toolkit index page**. 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 8:00 a.m. to 5:30 p.m. EST, Monday through Friday (except Federal holidays).

The NRC's Safety Culture Policy Statement became effective in June 2011. While a policy statement and not a regulation, it sets forth the agency's *expectations* for individuals and organizations to establish and maintain a positive safety culture. You can access the policy statement and supporting material that may benefit your organization on NRC's safety culture Web site at <http://www.nrc.gov/about-nrc/regulatory/enforcement/safety-culture.html>. We strongly encourage you to review this material and adapt it to your particular needs in order to develop and maintain a positive safety culture as you engage in NRC-regulated activities.

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. 579681. If you have any technical questions regarding this deficiency letter, please call me at (610) 337-6945.

In order to continue prompt review of your application, we request that you submit your response to this letter within 30 calendar days from the date of this letter.

Sincerely,

Original signed by Michael Reichard

Michael Reichard
Health Physicist
Materials Security and Industrial Branch
Division of Nuclear Materials Safety

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