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RSRS Radiological Survey & Remedial Services

June 26, 2013

DNMS

Ms. Michelle Hammond  
Nuclear Materials Safety Branch B  
US Nuclear Regulatory Commission Region IV  
1600 East Lamar Boulevard  
Arlington, TX 76011-4511

PUBLIC

- Immediate Release  
 Normal Release

NON-PUBLIC

- A.3 Sensitive-Security Related  
 A.7 Sensitive Internal  
 Other: \_\_\_\_\_

Re: **REQUEST FOR ADDITIONAL INFORMATION  
LETTER DATED JUNE 20, 2013  
MATERIALS LICENSE NO. 27-29309-01  
DOCKET NO. 030-37835  
CONTROL NO. 380317 580317**

Reviewer: MAP

Date: 6/26/13

Dear Ms. Hammond

Radiological Survey & Remedial Services, LLC has received your e-mail letter on June 20, 2013, requesting additional information in support of Mr. Brian Henderson's nomination to the position of Radiation Safety Officer of the above listed materials license. We appreciate your review of our previous request on March 27, 2013.

**Item 1: Please provide a detailed description of your involvement and/or training in Radiation Protection, Health Physics, or Internal Dosimetry.**

Mr. Henderson began his career in the U.S. Navy and graduated from the Navy's Engineering Laboratory Technician program in December 1998. Mr. Henderson went on to perform specific health physics tasks related to the operation and supervision of a naval nuclear powered warship by performing health physics related tasks, including work planning (man-REM reduction reviews, nuclear systems quality assurance inspections), sampling of reactor coolant chemistry specifications, secondary system chemistry analyses to determine that no pathways to the environment were included, and jobsite coverage related to contamination controls. Mr. Henderson was also responsible for tracking radioactive materials on board the ship, and transferring radioactive and mixed wastes to the Navy's shipyard personnel for disposal. Mr. Henderson managed the crew's dosimetry program for all assigned and visitor personnel, including reading, recording, and providing dose-related information to each servicemember's permanent medical record—if internal exposures had been encountered, Mr. Henderson was qualified to assign a specific internal dose, depending on the specifics of the scenario that was encountered.

In March 2000, Mr. Henderson was qualified as the vessel's Leading Engineering Laboratory technician, responsible for the management and supervision of all health physics staff, becoming the chief expert on the submarine for radiation protection and nuclear water chemistry questions. Mr. Henderson was responsible for training both nuclear-trained, and non-nuclear trained personnel on the ship for issues related to internal and external exposure control.

During this period, Mr. Henderson was the primary point of contact for the ship's resin discharge, including establishing controls and maintaining exposure levels through work

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planning documents, and supervision of processes related to removing about 15 curies of cobalt-60 from the ship's purification system to the shipyard, in a period of about 30 minutes.

After leaving the Navy, Mr. Henderson worked on the secondary-side steam generator chemical cleaning project for the USS Eisenhower as a government contractor. While not specifically a health physics project, if a steam generator had failed during cleaning, health physics protocols and controls were ready to be implemented at a moment's notice.

Mr. Henderson has since operated and managed a wet chemistry and gamma spectroscopy laboratory, and authored numerous decontamination & decommissioning planning documents related to the cleanup of several government facilities. Mr. Henderson, as part of a larger team for the Navy, has directly authored final status survey work plans and reports for sites in the San Francisco Bay Area and overseas that have been accepted by regulatory agencies. Examples of these documents can be provided upon request.

Mr. Henderson has previously applied for, and sat for Part 1 and Part 2 of the American Board of Health Physics' Certified Health Physicist examination in 2010.

**Item 2: Please provide a detailed description of your involvement and/or "hands-on" activities involving special nuclear material and source material.**

Mr. Henderson has dealt with special nuclear materials, starting with his experience handling core custody and maintenance of the reactor core of very highly enriched uranium-235 while in the Navy. Mr. Henderson dealt extensively with the tracking of this reactor core to ensure that all necessary paperwork accounting for core transfers was up-to-date ahead of a planned refueling of the vessel that occurred in 2002.

Mr. Henderson has also had hands-on experience with uranium-233, uranium-235, uranium-238, and plutonium-238 to produce standards for isotopic identification of those isotopes using wet chemistry processes at a field site for the Navy. Several of the projects for the Navy also have the potential for commingled 91B materials that require cleanup (such as the project mentioned in SECY-08-0077)—Mr. Henderson has prepared Final Status Survey work plans and reports that have analyzed the potential for remaining special nuclear materials related to any 91B activities that may have occurred at this site, as well as post-job dose estimated from residual materials—several of these reports have been accepted by state and federal regulatory agencies.

Mr. Henderson has also supervised radiation protection staff during a depleted uranium cleanup for the U.S. Army at a project at the Al Kahajr Range in the Kingdom of Saudi Arabia in 2011-2012. Several other Navy decontamination and decommissioning projects have allowed Mr. Henderson to manage thorium sources and residual thorium contamination present on the project.

**Item 3: Please provide a description of your involvement in providing Training and Instruction in the areas of Radiation Protection or Health Physics.**

Mr. Henderson began providing radiation protection and health physics training while in the Navy in 2000. Mr. Henderson provided all annual training for members of the ship's crew, including topics about minimizing exposure, exposure to the unborn child, and radioactive materials casualty procedures. Mr. Henderson, while still in the Navy, attended Group Paced Instructor Training School, becoming a certified Navy Instructor in 2001, before teaching a class entitled "Operational Water Chemistry and RADCON" to prospective submarine Engineer Officer candidates and other Engineering Laboratory Technicians.<sup>1</sup> This course qualified others to lead seminars on other nuclear powered warships related to radiological control and other health physics casualties.

Mr. Henderson, after being previously designated as a Authorized User of this license from the outset, has also performed training for health physics technicians and laboratory technicians numerous times, including site specific topics, exposure to the unborn child, method of radiation interaction, and contamination & access controls, as well as many other topics related to health physics operations at several of the firm's different projects.

If you have any additional questions, please don't hesitate to call Mr. Brian Henderson (Radiation Safety Officer and President) at (775) 737-4145.

Regards,



Brian Henderson  
Radiation Safety Officer  
President

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<sup>1</sup> Website: <http://bit.ly/16xcfpD>



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
1600 EAST LAMAR BOULEVARD  
ARLINGTON, TEXAS 76011-4511

June 20, 2013

Radiological Survey & Remedial Services, LLC  
ATTN: Brian Henderson  
President  
100 Washington Street, Suite 200  
Reno, Nevada 89503

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION

This is in reference to your amendment request dated March 27, 2013 regarding Nuclear Regulatory Commission License No. 27-29309-01.

License Condition 13.A. gives the RSO authorization to designate Authorized Users in writing. Therefore, in accordance with the procedures and conditions of your license, this action does not require an amendment. However, please have documentation available for review during the inspection process.

We are unable to change License Condition 18 as you requested. Standard license conditions are approved by the Office of General Counsel therefore can not be changed. However, the procedures authorized by your license can include your proposed change for License Condition 18, as requested in your letter dated March 27, 2013.

Regarding your request to change the Radiation Safety Officer on the license, we need the following additional information:

- 1) Please provide a detailed description of your involvement and/or training in Radiation Protection, Health Physics, or Internal Dosimetry.
- 2) Please provide a detailed description of your involvement and/or "hands-on" activities involving special nuclear material and source material.
- 3) Please provide a description of your involvement in providing Training and Instruction in the areas of Radiation Protection or Health Physics.

You can contact me at 817-200-1127 or by email at [michelle.hammond@nrc.gov](mailto:michelle.hammond@nrc.gov) if you have any questions about this letter.

Radiological Survey & Remedial Services, LLC -2-

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

Thank you for your cooperation.

Sincerely,

**/RA/**

Michelle M. Hammond, M.Sc., Health Physicist  
Nuclear Materials Safety Branch B

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