



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF RESEARCH AND DEVELOPMENT
CINCINNATI, OHIO 45268

November 22, 2019

U.S. Nuclear Regulatory Commission
Region III
Materials Licensing Branch
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

Re: Mail Control No. 616071
Attn: Frank Tran

Dear Mr. Tran:

This correspondence is in response to the additional information request received from you via email on October 24, 2019, reference Mail Control No. 616071. This request was connected to the U.S. Environmental Protection Agency's request to amend our Cincinnati facility NRC License (No. 34-12736-02) to appoint Ms. Jennifer Tant as our Radiation Safety Officer (RSO).

Attached you will find a completed memorandum of authority for the proposed RSO, Ms. Tant. In addition, attached is a copy of the RSO's roles and responsibilities from the Radiation Safety Program of U.S. EPA Cincinnati.

Ms. Tant's experience with radioactive materials began upon her employment with EPA in August of 2016. Since that time, Ms. Tant has served as an industrial hygienist and Safety, Health, and Environmental Management (SHEM) Program Manager for EPA's research facilities in Cincinnati, Ohio. As part of her duties, she has trained under and assisted the RSO (myself) in the performance of liquid scintillation counting, sealed source leak tests, contamination surveys, and inventories of sealed and unsealed sources. This includes working with the radionuclides (Ni-63, Co-57, C-14, and H-3) in the forms and amounts allowed under our Limited Scope License No. 34-12736-02. Due to their limited use, Ms. Tant's experience with C-14 and H-3 has involved contamination monitoring, decontamination, and waste disposal of legacy laboratory materials. As our site industrial hygienist, Ms. Tant has been responsible for the review and approval of all laboratory health & safety plans and procedures, including all plans involving the use of radioactive materials at EPA Cincinnati.

Ms. Tant has completed a 40 hour RSO training course provided by an outside vendor widely used by licensees. Furthermore, her prior experience as an OSHA industrial hygienist and compliance inspector, as well as her 40 hour HAZWOPER training, have provided her with applicable skills and knowledge regarding employee safety and emergency response. Upon Ms. Tant's assumption of RSO duties, I will continue to work at the EPA Cincinnati facility to serve as a resource to her and provide historical knowledge as necessary. In addition, Ms. Tant's immediate and second line supervisors have also served as RSO for EPA licensed facilities.

Thank you for considering our request. Please let me know if you have any further questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Stephen E. Musson".

Stephen E. Musson, PhD, CIH
Radiation Safety Officer, Cincinnati
U.S. Environmental Protection Agency

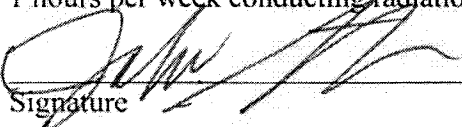


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Office of Resource Management
CINCINNATI, OHIO 45268

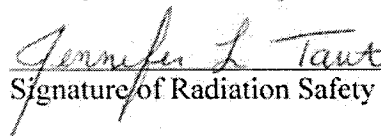
October 28, 2019

Memo To: Radiation Safety Officer
From: Office of Resource Management Director
Subject: Delegation of Authority

You, Jennifer Tant, have been appointed radiation safety officer and are responsible for ensuring the safe and secure use of radiation. You are responsible for managing the Radiation Protection Program, identifying radiation protection problems, initiating, recommending, or providing corrective actions, verifying implementation of corrective actions, stopping unsafe activities, and ensuring compliance with regulations. You are hereby delegated the authority necessary to meet those responsibilities, including prohibiting the use of byproduct material by employees who do not meet the necessary requirements and shutting down operations, when justified, to maintain radiation safety. You are required to notify management if staff does not cooperate and does not address radiation safety issues. In addition, you are free to raise issues with the U.S. Nuclear Regulatory Commission at any time. It is estimated that you will spend 1 hour per week conducting radiation protection activities.


Signature Date Oct 28, 2019
John Steenbock Director, Office of Resource Management
Name Title

I accept the above responsibilities.


Signature of Radiation Safety Officer Date 10/28/2019

cc: ORD-RSCD-SHEMB

The Radiation Safety Officer responsibilities include:

- 1) Act as liaison with NRC and other regulatory authorities.
- 2) Receive, review, and approve/disapprove all Health & Safety Plans for the use of radioactive materials and accompanying user qualifications.
- 3) Review and approve/disapprove all purchase requests for radioactive materials.
- 4) Prepare required federal, state and local reports including the annual Ohio LLRW report.
- 5) Ensure that licensed material possessed by the licensee is limited to the types and quantities of material listed on the license.
- 6) Maintain documentation that demonstrates that the dose to individual members of the public does not exceed regulatory limits.
- 7) Ensure security of radioactive material.
- 8) Post documents and notices as required by 10 CFR Parts 19.11 and 21.6.
- 9) Ensure that appropriate area warning signs are posted.
- 10) Ensure that licensed material is transported in accordance with applicable NRC and DOT requirements.
- 11) Ensure that radiation exposures are "ALARA."
- 12) Oversee all activities involving radioactive material, including monitoring and surveys of all areas in which radioactive material is used.
- 13) Provide necessary information on all aspects of radiation protection to personnel at all levels of responsibility, pursuant to 10 CFR Parts 19 and 20, and any other applicable regulations.
- 14) Oversee proper delivery, receipt, and conduct of radiation surveys for all shipments of radioactive material arriving at or leaving from EPA Cincinnati licensed facilities, as well as packaging and labeling all radioactive material leaving the facilities.
- 15) Determine the need for personnel monitoring, distribute and collect personnel radiation monitoring devices, evaluate bioassays, monitor personnel radiation exposure and bioassay records for trends and high exposures, notify individuals and their supervisors of radiation exposures approaching the limits, and recommend appropriate remedial action.
- 16) Conduct training programs and otherwise instruct personnel in the proper procedures for handling radioactive material prior to use, at periodic intervals (refresher training), and as required by changes in procedures, equipment, regulations, etc.
- 17) Supervise and coordinate the radioactive waste disposal program, including effluent monitoring and recordkeeping on waste storage and disposal records.
- 18) Oversee the storage of radioactive material not in current use, including waste.
- 19) Perform or arrange for leak tests on all sealed sources
- 20) Perform or arrange for calibration of radiation survey instruments.
- 21) Maintain an inventory of all radioisotopes possessed as required by regulations.
- 22) Immediately terminate any unsafe condition or activity that is found to be a threat to public health and safety, the health and safety of laboratory staff, or public/EPA property.
- 23) Supervise decontamination and recovery operations.
- 24) Maintain other records not specifically designated above, for example, records of receipts, transfers, and surveys as required by 10 CFR 30.51 and 10 CFR 20, Subpart L, "Records." (Records include radionuclide receipt, storage, use, transfer, disposal; inventory; laboratory monitoring and surveys; source leak test results; inspections; accidents; and instrument calibration.)

- 25) Perform annual audits of the radiation safety program to ensure compliance with all applicable NRC regulations and the terms and conditions of the license as well as review of the content and implementation of the radiation safety program to achieve occupational doses and doses to members of the public that are ALARA.
- 26) Ensure that the results of audits, identification of deficiencies, and recommendations for change are documented (and maintained for at least 3 years) and provided to management for review; ensure that prompt action is taken to correct deficiencies.
- 27) Ensure that the audit results and corrective actions are communicated to all personnel who use licensed material as necessary to address any findings.
- 28) Ensure that all incidents, accidents, and personnel exposure to radiation in excess of ALARA or Part 20 limits are investigated and reported to NRC and other appropriate authorities, if required, within the required time limits.
- 29) Maintain understanding of and up-to-date copies of NRC regulations, the license, revised licensee procedures, and ensure that the license is amended whenever there are changes in licensed activities, responsible individuals, or information provided to NRC during the licensing process.

Pavon, Sandy

From: Tran, Frank
Sent: Friday, November 22, 2019 4:51 PM
To: Song, Taehoon; Pavon, Sandy
Cc: Tomczak, Tammy
Subject: FW: RE: Request for additional information for NRC License No. 34-12736-02
Attachments: 2019 RSO Delegation of Authority.pdf; Radiation Safety Officer Responsibilities.docx; 2019-11-22 Response to NRC information request.pdf

Dear IM Center,

Please add the attachments to ADAMS as additional information for Mail Control No. 616071.

Thank you,

Frank

From: Musson, Steve <Musson.Steve@epa.gov>
Sent: Friday, November 22, 2019 4:33 PM
To: Tran, Frank <Frank.Tran@nrc.gov>
Cc: Tant, Jennifer <tant.jennifer@epa.gov>
Subject: [External_Sender] RE: Request for additional information for NRC License No. 34-12736-02

Dear Mr. Tran:

This correspondence (signed copy on letterhead attached) is in response to the additional information request received from you via email on October 24, 2019, reference Mail Control No. 616071. This request was connected to the U.S. Environmental Protection Agency's request to amend our Cincinnati facility NRC License (No. 34-12736-02) to appoint Ms. Jennifer Tant as our Radiation Safety Officer (RSO).

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serve as a resource to her and provide historical knowledge as necessary. In addition, Ms. Tant's immediate and second line supervisors have also served as RSO for EPA licensed facilities.

Thank you for considering our request. Please let me know if you have any further questions.

Sincerely,

Stephen Musson, PhD, CIH
Radiation Safety Officer, Cincinnati
U.S. Environmental Protection Agency
26 W. Martin Luther King Drive
Cincinnati OH 45268
513-569-7969

From: Tran, Frank <Frank.Tran@nrc.gov>
Sent: Thursday, October 24, 2019 4:57 PM
To: Musson, Steve <Musson.Steve@epa.gov>
Cc: Tant, Jennifer <tant.jennifer@epa.gov>
Subject: Request for additional information for NRC License No. 34-12736-02

Dear Dr. Musson:

This refers to the license amendment request dated October 2, 2019 from U.S. Environmental Protection Agency, NRC License No. 34-12736-02. NUREG-1556, Volume 7, Revision 1, "Program-Specific Guidance About Academic, Research and Development, and Other Licenses of Limited Scope, Including Electron Capture Devices and X-Ray Fluorescence Analyzers" was used to review your application. Based on our review, we will need additional information regarding the proposed Radiation Safety Officer (RSO).

- Please provide a copy of a memorandum of authority for the proposed RSO, Ms. Jennifer Tant. A sample of the memorandum is attached for your reference.
- Provide a copy of the role and responsibility of the RSO and information that Ms. Tant has worked in those areas and the duration of works.
- Provide information that Ms. Tant has experience in using licensed materials or equivalent (radionuclides (H-3, C-14, P-32, S-35, Ni-63, etc.) physical/chemical form (sealed or unsealed, volatile or non-volatile, etc.), quantities handled, activities performed, and duration of experience)

Please provide the response in writing with authorized signature and date by November 24, 2019 and please reference Mail Control No. 616071 in the response to facilitate proper handling in our office. You could fax the response to 630-515-1078 or email a copy of the pdf version to frank.tran@nrc.gov.

If you have any question or need any clarification regarding the above, please contact me at 630-829-9623 or reply to this email.

Thank you.

Frank Tran

Health Physicist/License Reviewer
NRC Region III/Division of Nuclear Materials Safety
Phone: 630-829-9623
Fax: 630-515-1078
Email: Frank.Tran@nrc.gov