



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

REGION III  
2443 WARRENVILLE RD. SUITE 210  
LISLE, IL 60532-4352

August 17, 2021

Kathleen Flaherty, CSP, ASP, CHMM  
Professional Service Industries, Inc.  
545 East Algonquin Road  
Arlington Heights, IL 60005

Dear Ms. Flaherty:

This letter is in reference to the requests dated July 28, 2021 and July 29, 2021, both signed by John T. Thornton, PSI Safety Director/CRSO, and your request dated August 5, 2021, for an amendment to U.S. Nuclear Regulatory Commission (NRC) Materials License No. 12-16941-01.

The NRC's guidance document for your proposed type of license, which I refer to below as "the guidance", is NUREG-1556, Volume 1, Rev. 2, dated June 2016, "Consolidated Guidance About Materials Licenses, Program – Specific Guidance About Portable Gauge Licenses." This guidance is available on the NRC Web site at:

<https://www.nrc.gov/docs/ML1617/ML16175A375.pdf>

Upon review of your letter, I identified the following areas where additional or clarifying information is needed:

1. Section 8.7.1, "Radiation Safety Officer," of the guidance identifies that the Radiation Safety Officer (RSO), is responsible for the oversight of licensed operations. The RSO must have sufficient organizational authority and management prerogative to enforce appropriate radiation protection rules, standards, and practices.

To formally establish the organizational authority of your office, submit a delegation of authority signed by a management representative. A model Delegation of Authority is provided in Appendix D, "Typical Duties and Responsibilities of the Radiation Safety Officer," of the guidance.

2. Section 8.7.1, "Radiation Safety Officer," of the guidance states that the appointed RSO must have adequate training and experience. This is necessary so that the RSO understands the hazards and is familiar with the regulations concerning the licensed radioactive material.

The request included documentation of the training and experience for the proposed RSO. Upon review, I identified that the APNGA Portable Nuclear Gauge Safety & U.S. DOT HAZMAT Certification Class Certificate of Completion was not signed as required. Therefore, it is not apparent if the supplemental training, including supervised hands-on experience with portable gauging devices, was completed.

Submit documentation demonstrating that the proposed RSO has completed a portable gauge manufacturer's course for users and RSOs, with hands-on experience. An equivalent course meeting the requirements of Appendix C, "Criteria for Acceptable Training Courses for Portable Gauge Users," is also acceptable.

3. Section 8.9, "Facilities and Equipment," of the guidance identifies that applicants must provide a facility diagram for each permanent portable gauge storage location.

The submitted facility diagram depicting your proposed facility layout changes do not provide all information relevant to public dose and security as discussed in Sections 8.10.5, "Public Dose," and 8.10.6, "Operating, Emergency, and Security Procedures," of the guidance.

Please resubmit the facility diagrams identifying all entrances and points of access, rooms, uses of the rooms, the location of the gauge storage area and its distance from occupied work areas. Also, describe and label all adjacent areas to your facility (parking lot, neighboring buildings, streets, etc.). If your facility is a multistory and/or multitenant building, identify all floors and their uses, including areas occupied by other tenants.

As depicted in Figure 8-4, "Storing Gauges," of Section 8.10.5 of the guidance, gauges should be stored away from occupied areas. Further, Title 10 Code of Federal Regulations (10 CFR) §30.34(i) requires that portable gauges must be secured against unauthorized removal using a minimum of two independent physical controls that form tangible barriers.

4. Section 9, "License Amendments and Renewals," of the guidance identifies that it is the licensee's obligation to keep the license current. If any of the information provided in the original application is to be modified or changed, the licensee must apply for a license amendment before the change takes place. The change is not in effect until the amendment has been issued.

The request identified the removal of a permanent storage location from your license.

The request did not include documentation of the transfer/disposal of sealed sources and portable gauging devices previously stored at that location and records demonstrating the absence of residual radioactive contamination, which are needed before the former location can be approved for release to unrestricted use.

Please provide the following information in support of the request to remove the permanent storage location from your license:

- Submit records of transfer and/or disposal for all sealed sources or portable gauging devices previously stored at the former location. If transferred outside of your organization, please provide a copy of the transferee's license and a letter confirming receipt of the transferred portable gauging devices.
- Submit current Leak Test Reports for all sealed sources or portable gauging devices previously stored at the former location.
- Describe any incidents involving ruptured, leaking or lost sealed sources or portable gauging devices along with any other incidents involving radioactive materials at the former permanent storage location.

5. Section 8.10.5, "Public Dose," of the guidance identifies that licensees must conduct operations so that radiation doses to individual members of the public do not exceed 100 millirem in a year and to maintain doses in unrestricted areas below 2 millirem in any one hour.

You requested an increase in the authorized number of portable gauging devices.

To ensure compliance with 10 CFR §20.1301, "Dose limits for individual members of the public," update your individual MOP dose compliance study to account for the increase in the licensed quantities of radioactive materials. For additional information and guidance, refer to Appendix H, "Dosimetry-Related Guidance," Part 2, "Guidance for Decommissioning that Individual Members of the Public Will Not Receive Doses Exceeding the Allowable Limits." As this item is only advisory, no response to this item is required.

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

To continue review of your request, please submit your response within 15 calendar days from the date of this letter. In your response, please refer to the license, docket, and control number specified below. If no response is received within the specified timeframe noted above, it will be assumed that you do not wish to proceed with the requested licensing action.

If you have questions, require additional time to respond, or require clarification on any of the information stated above, you may contact me at [jason.kelly@nrc.gov](mailto:jason.kelly@nrc.gov) or (630) 829-9737.

Sincerely,

Jason M. Kelly, MPH  
Health Physicist  
Materials Licensing Branch

License No. 12-16941-01  
Docket No. 030-11906  
Control No. 628095