

**US Nuclear Regulatory Commission
APPLICATION FOR LICENSE FOR RADIOACTIVE MATERIALS**

Name of Corporation/Individual Applying for License Sharon L. Long Consulting

NRC License # 34-26655-02
November 20, 2015,

Mail Control # 588253

Mr. Tran,

This letter is written in response to your request for additional information dated November 19, 2015. All responses are in order of request.

1. As noted in the current license renewal document no sources are possessed by this license. In the event that any client source is transported, it will be verified that the source is appropriately listed in the sealed source device registry.
2. Any and all instruments used at client sites are the property of the licensed client. It is confirmed that any instrument used in the course of business at a client site meets the radiation monitoring instrument specifications published in Appendix J of NUREG-1556, Vol 18 and is calibrated in accordance with NRC regulations.
3. It is confirmed that we have performed a prospective evaluation based upon historical information and determined that no unmonitored individual is likely to receive an exposure in excess of 10% of the allowable limits in 10 CFR Part 20. In the event that changes in exposure are anticipated the exposure potential will be reevaluated and appropriate monitoring devices assigned if required.
4. A copy of the nuclear medicine portion of our standard service agreement is attached. It is confirmed that only short half-life, low hazard unsealed radioactive materials are ever used for the services performed thus, no service is performed that would result in any significant contamination. In the unlikely event of a minor contamination clean-up is the responsibility of the client license. It is verified that any client sealed source used is tested and has no removable contamination in excess of 0.005 uCi.
5. It is confirmed that verification of routine client surveys are reviewed to assure that there is no significant exposure in any area where service is provided.
6. It is confirmed that it is the client responsibility to report defects and noncompliance as required by 10 CFR 21.21(a) however, if during the performance of our service a defect is identified, the client will be alerted. (Defect and Noncompliance information is posted at client sites.)
7. Per your request, a copy of the current State of Ohio license is attached.

Sincerely

Sharon L. Long
Sharon L. Long

A. NUCLEAR MEDICINE SERVICES:

1. Assist in the preparation of new, renewal, or amendment application(s) for NRC and/or State Radioactive Materials License (excludes teletherapy).
2. Aid in keeping all pertinent Radioactive Materials License(s) current (excludes teletherapy).
3. Provide consulting and reference assistance for installation of a radioactive materials laboratory according to NRC and/or State Regulations.
4. Assist in establishment of a radiological health program and record system in accordance with NRC and/or State Regulations.
5. Assist in maintenance of current NRC and/or State Regulations.
6. Offer in-service education and annual review programs to technical staff as requested and which coincides with routinely scheduled audits. CD and online services are also available for use at client convenience.
7. Advise in selection of equipment and supplies to achieve maximum economy and service.
8. Will perform Wipe/Leak Tests on sealed sources semi-annually.
9. Arrange for calibration of survey meters by a licensed calibration range on an annual basis (Limit: 2).
10. Visit your facility quarterly to:

- a. Offer consultation on problems pertaining to your Radiation Safety Program.
 - b. Perform quality assurance evaluations on uptake probe and well detector units, as time and patient schedules permits.
 - c. Perform geometry, accuracy, constancy, and evaluate activity linearity checks on dose calibrators, as required by License condition or applicable Regulations.
CALCHECK linearity kits are available to all sites during the visit
 - d. Review record system (e.g., radioactive materials shipment, receipt, use and disposal) for NRC and/or State License or Regulatory compliance, counting and handling procedures for proper techniques, and health physics program to assure continued safe management of radioactive materials.
 - e. Film badge records will be reviewed and action recommended in case(s) of apparent overexposures. Online service will be used if available and authorized.
 - f. Lecture on nuclear medicine techniques and radiation physics, as requested, if arranged to coincide with routinely scheduled consulting visit.
 - g. Attend Radiation Safety Committee meetings or Staff meetings, if arranged to coincide with routinely scheduled consulting visit.
 - h. Inventory sealed sources as required by License condition or Regulations.
11. Available during normal business hours for consultation by telephone or letter. Available at other times by special visit. Fees for special visits, camera acceptance testing and/or annual camera evaluations are not included as part of this contract. Fees for the noted items will be negotiated with due consideration given to the type of service and possible travel expense to be incurred.
 12. Provide a formal typewritten report of the results from the routinely scheduled on-site audit, or special visit consultation.

OHIO DEPARTMENT OF HEALTH LICENSE FOR RADIOACTIVE MATERIAL

Pursuant to Chapter 3748 of the Ohio Revised Code, and in reliance on statements and representations made by the licensee, a license is hereby issued authorizing the licensee named herein to receive, acquire, possess, and transfer radioactive material as designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the applications of Chapter 3748 of the Ohio Revised Code and all applicable rules promulgated thereunder. This license is subject to all applicable rules, regulations and orders of the Ohio Department of Health now or hereinafter in effect and to any conditions specified below.

LICENSEE 1. Sharon L. Long Consulting 2. 1296 Russell Drive Bolivar, OH 44612	LICENSE NUMBER 3. 03221800000 EXPIRATION DATE: 4. October 1, 2020 FILE NUMBER - ID NUMBER 5. 500852-10625
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6. RADIOACTIVE MATERIAL	7. CHEMICAL AND/OR PHYSICAL FORM	8. MAXIMUM QUANTITY THAT LICENSEE MAY POSSESS AT ANY ONE TIME UNDER THIS LICENSE
A. Any radioactive material with atomic number 3-83, or 95	A. Leak test samples	A. See item 9.A. below
B. Any radioactive material with atomic number 3-83, or 95	B. Sealed sources	B. No single source to exceed 3.7 MBq (0.1 mCi), total possession not to exceed 37 MBq (1 mCi)
C. Cesium-137	C. Sealed sources	C. No single source to exceed 9.25 MBq (250 µCi), total possession not to exceed 37 MBq (1 mCi).
D. Barium-133	D. Sealed sources	D. No single source to exceed 11.1 MBq (300 µCi), total possession not to exceed 37 MBq (1 mCi).
E. Technetium-99m	E. Any	E. 18.5 GBq (500 mCi)
F. Cobalt-57	F. Sealed source	F. No single source to exceed 370 MBq (10 mCi), total possession not to exceed 555 MBq (15 mCi).

9. Authorized Use

- A. Possession incident to the performance of tests for leakage and/or contamination on sealed sources and devices containing licensed material as specified in attachment 12 of the renewal application dated June 25, 2015.
- B. D. To be used for instrument calibration and testing.
- E. To be delivered and used at client facility for instrument calibration, testing and shielding evaluations.
- F. To be used for instrument calibration and testing.

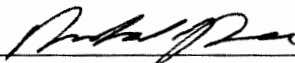
CONDITIONS

- 10. Licensed material may only be used at the licensee's facilities located at:
 - A. Licensed material listed in Subitems 6.B. through 6.F. shall be used and/or stored in accordance with the renewal application dated June 25, 2015, at the licensee's facilities located at 1296 Russell Drive, Bolivar, Ohio, and at temporary job sites of the licensee anywhere in the State of Ohio.
 - B. The licensee is authorized to collect leak test samples at client facilities located anywhere in the state of Ohio. Leak test samples may be analyzed at the licensed facility located at 1296 Russell Drive, Bolivar, Ohio 44612, client facilities equipped with appropriate analysis equipment, or by a service provider licensed by the Director, the NRC, or an Agreement State to perform such services.
- 11. The Radiation Safety Officer for this license is: Sharon L. Long
- 12. The licensed material shall be used by, or under the supervision of Sharon L. Long, David Close, C. Kelly Stoneberg, and Adam Springer.
- 13. All sealed sources that are used or obtained shall have been evaluated or approved under the provisions of OAC 3701:1-46-49, or by equivalent NRC or Agreement State regulation.

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	FILE NUMBER - ID NUMBER: 500852-10625
	Amendment No. 5

14. Sealed sources shall be tested for leakage and/or contamination in accordance with the provisions of OAC 3701:1-38-24.
15. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license.
16. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
17. The licensee may transport licensed material in accordance with the provisions of OAC 3701:1-50.
18. The licensee is authorized to hold radioactive material with a physical half-life of less than 120 days for decay-in-storage in accordance with the provisions of OAC 3701:1-38-19(E).
19. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in OAC 3701:1-40-17(B) for establishing decommissioning financial assurance.
20. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Ohio Department of Health's statutes, rules, and orders shall govern unless statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
 - A. *Renewal application dated June 25, 2015; this amendment renews license 03221800000 in its entirety (Amendment 5).*

For the Ohio Department of Health

DATE: 7/10/15 BY: 
 Michael J. Snee
 Bureau of Environmental Health and Radiation Protection
 on behalf of the Director of Health

Tran, Frank

From: Sharon Long <slong@nationalphysics.com>
Sent: Friday, November 20, 2015 10:37 AM
To: Tran, Frank
Subject: [External_Sender] RE: Request for additional information regarding NRC License No. 34-26655-02
Attachments: Responce to Request for additional information November 2015..pdf; Sample Nuclear Medicine Services.pdf; Sharon's Ohio Renewed License 2015 Amendment #5.pdf

Hi Frank,

It was pleasant to speak with you today. Per your request attached are the following:

1. Response to the request for additional information.
2. Sample of nuclear medicine services provided to clients.
3. State of Ohio license.

Have A Wonderful Weekend!

Please respond to this e-mail to verify receipt.

Sharon L. Long
1296 Russell Drive
Bolivar, Oh 44612
Phone – 888-456-5255
Fax- 866-872-9302

-----Original Message-----

From: Tran, Frank [mailto:Frank.Tran@nrc.gov]
Sent: Thursday, November 19, 2015 3:45 PM
To: slong@nationalphysics.com
Subject: Request for additional information regarding NRC License No. 34-26655-02

Dear Ms. Long:

We have reviewed your renewal application for NRC License No. 34-26655-02 and we have some concerns (see attached letter). I called you today to discuss our concerns but we inopportunity missed you. If you would like to discuss all of concerns before preparing the response, please call me at 630-829-9623.

Sincerely,

Frank Tran
License Reviewer
NRC Region 3/Division of Nuclear Materials Safety
Phone: 630-829-9623
Fax: 630-515-1078
Email: Frank.Tran@nrc.gov