

OFFICIAL USE ONLY - SECURITY RELATED INFORMATION

STATE OF ILLINOIS
 ILLINOIS EMERGENCY MANAGEMENT AGENCY
 BUREAU OF RADIATION SAFETY
 1035 OUTER PARK DRIVE
 SPRINGFIELD, ILLINOIS 62704
 (217) 785-9947

RADIOACTIVE MATERIAL LICENSE

Pursuant to the Illinois Radiation Protection Act and the rules and regulations in 32 Illinois Administrative Code promulgated thereunder, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess and transfer radioactive material(s) listed herein, and to use such radioactive material(s) for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations and orders of the Agency now or hereafter in effect and to any conditions specified in the license.


<u>LICENSEE</u> Radiation Safety Services, Inc. 6312 West Oakton Street Morton Grove, IL 60053	<u>LICENSE NUMBER</u> IL-01429-01	<u>EXPIRATION DATE</u> June 30, 2022
	<u>AMENDMENT NUMBER</u> 18	

Attention: Eli A. Port
 President

In accordance with application dated May 28, 2014, License Number IL-01429-01 is renewed in its entirety. Previous amendments are void.

ITEM	RADIONUCLIDE	CHEMICAL and/or PHYSICAL FORM	MAXIMUM ACTIVITY* PER SOURCE	MAXIMUM POSSESSION LIMIT
A.	Any radioactive material	Leak test, environmental, or bioassay samples		Any
B.	Any radioactive material	Sealed Sources which have been evaluated and approved by the Agency, U.S. Nuclear Regulatory Commission (U.S. NRC), or an Agreement State	As restricted in the sealed source evaluation sheet contained in the U.S. NRC Sealed Source and Device Registry	Any
C.	Co-60	Sealed Sources	5 mCi	Any
D.	Cs-137	Sealed Sources	10 mCi	Any
E.	Ba-133	Sealed Sources	5 mCi	Any
F.	Cs-137	Sealed Sources	100 mCi	100 mCi

* μCi-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; μg-microgram; kg-kilogram

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 IL 473-0059

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<u>LICENSEE</u>	<u>LICENSE NUMBER</u>	<u>AMENDMENT NUMBER</u>	<u>EXPIRATION DATE</u>
Radiation Safety Services, Inc.	IL-01429-01	18	June 30, 2022

<u>ITEM</u>	<u>RADIONUCLIDE</u>	<u>CHEMICAL and/or PHYSICAL FORM</u>	<u>MAXIMUM ACTIVITY* PER SOURCE</u>	<u>MAXIMUM POSSESSION LIMIT</u>
G.	Any radioactive Material with Atomic Nos. 1-83, inclusive	Any	Total 10 mCi per nuclide except as noted below: H-3	1 Ci 100 mCi
H.	Any radioactive material	Sealed Sources which have been evaluated and approved by the Agency, U.S. NRC, or an Agreement State	100 µCi Beta and/or Gamma; 10 µCi Alpha	10 mCi
I.	Co-60	Sealed Sources which have been evaluated and approved by the Agency, U.S. NRC, or an Agreement State	5 Ci	5 Ci
J.	Cs-137	Sealed Sources which have been evaluated and approved by the Agency, U.S. NRC, or an Agreement State	5 Ci	5 Ci
K.	Ir-192	Sealed Sources which have been evaluated and approved by the Agency, U.S. NRC, or an Agreement State	5 Ci	5 Ci
L.	Any radioactive material listed in 10 CFR Part 20, Appendix C	Analytical Samples	See Authorized Use Item M.	
M.	Cf-252	Sealed Source - Amersham Model CVN-5	2.5 mCi (5 µgrams)	2.5 mCi (5 µgrams)
N.	Rn-222	Flow Through Source - Pylon Model RN-1025	20 µCi	20 µCi
O.	Sr-90	Sealed Sources - Jordan Nuclear	50 µCi	1 mCi

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P.	Kr-85	Sealed Sources - Jordan Nuclear	50 µCi	1 mCi
Q.	Ra-226	Any	0.005 µCi	0.005 µCi
R.	Ra-226	Sealed Sources – survey instrument check source	10 µCi	1 mCi
S.	Co-57	Sealed Sources - New England Nuclear Model NES-289	50 µCi	600 µCi
T.	Cs-137	Sealed Source - J.L. Shepherd, Model 6810 as approved in U.S. NRC Sealed Source and Device Registry IL-360-D-114-S.	18 Ci	18 Ci
U.	Am-241	Foil Source - Amersham Model AMM	300 µCi	2 mCi
V.	Cf-252	Sealed Source - Frontier Technology Model 100	100 µgrams	100 µgrams
W.	Kr-85	Sealed Source – Ohmart Models A-36058, A-5799, A-28944, 3M Models 3E4G, 3E4L, 3E4O, Amersham Model KAC.D3, American Atomics Model 40022, 40079 40079A, U.S. Radium Model LAB-414-3 or DuPont Merck Models NER-585 and NER-584	1500 mCi or as otherwise specified in Tables 1 or 2 of U.S. NRC Sealed Source and Device Registry NR-0522-D-101-B	Any
X.	Sr-90	Sealed Source – 3M Model 3F1E, Amersham Model SIF.D1 or U.S. Nuclear Model 3288	200 mCi or as otherwise specified in Tables 1 or 2 of U.S. NRC Sealed Source and Device Registry NR-0522-D-101-B	Any

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Y.	Am-241	Sealed Source – Ohmart Model A-5799, 3M Model 4K7C, Amersham Model AMC.19 or Monsanto Research Models MRC-G-SS-WAM or 2404	1000 mCi or as otherwise specified in Tables 1 or 2 of U.S. NRC Sealed Source and Device Registry NR-0522-D-101-B	Any
Z.	Ra-226	Foil Source – Amersham Model RAM.X452	7 µCi	70 µCi
AA.	Am-241	Foil Source – Amersham Model AMM.1001	50 µCi	500 µCi
BB.	Am-241	Sealed Source - QSA Global, Inc. Model AMC.P1	45 mCi	180 mCi
CC.	Any radioactive material with Atomic Numbers 84-105, inclusive	Any	1 mCi per nuclide except as noted below: Special Nuclear Material	10 mCi total 1 g

AUTHORIZED USE:

- A. For possession incident to the performance of tests for leakage and/or contamination on customer sources and devices and the collection, transportation and analysis of the radioactive content in environmental or bioassay samples.
- B. For possession incident to the installation, relocation, shutter testing, testing of safety devices, radiation surveys of fixed and portable gauges, gas chromatographs, and x-ray fluorescence analyzers that have been evaluated and approved by the Agency, the U.S. NRC, or an Agreement State for possession and use by specific or general licensees; and source recovery for Los Alamos National Laboratory in accordance with manufacturer's procedures or other Agency approved procedures.

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AUTHORIZED USE: (continued)

- C. through E. For calibration of instruments for licensee and customers.
- F. To be used in a gamma survey instrument calibrator Model No. 64-764 manufactured by the EON Corporation and distributed by Nuclear Associates, Inc.
- G. and H. For research and development as defined in 32 Ill. Adm. Code 310.20, including animal studies and for calibration of instruments for licensee and customers.
- I. through K. For possession, including use in gauges that have been evaluated and approved by the Agency, U.S. NRC, or an Agreement State, incident to the calibration and testing of survey instruments as specified in application dated May 26, 1999 (attachments dated June 17, 1999) and letter with attachment dated July 25, 2000.
- L. For possession incident to the analysis of samples. Each radionuclide utilized per single sample or handled in a single process not to exceed the applicable quantity set forth in 10 CFR Part 20, Appendix C. Total possession limit at a single location not to exceed 10 quantities specified in 10 CFR Part 20, Appendix C.
- M. For research and development as defined in 32 Ill. Adm. Code 310.20 and for calibration of instruments.
- N. For research and development as defined in 32 Ill. Adm. Code 310.20.
- O. and P. To be used as check sources for survey instruments.
- Q. For use in research and development as defined in 32 Ill. Adm. Code 310.20 and for calibration of instruments.
- R. To be used as check sources for survey instruments.
- S. To be used for the calibration of survey instruments.
- T. For use in U.S. Nuclear Model CCSD-20E calibrator for calibration of instruments for licensee and customers. The licensee is also authorized to provide maintenance and repair to this device as described in letter, with attachments, dated November 16, 2000.
- U. For use in research and development in gas and aerosol detectors.

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AUTHORIZED USE: (continued)

- V. For research and development as defined in 32 Ill. Adm. Code 310.20 and for calibration of instruments.
- W. through Y. For possession incident to removal and reinstallation of sources in Honeywell Measurex (Ohmart) Model BAL source housing.
- Z. through AA. For possession incident to the removal of foil sources from Alnor Instrument Company Dew Point Gauge Models 7000U, 7000L, 7000H, 7200U, 7200L, 7300, 7300D and 7350.
- BB. For possession in Kronos, Inc. Model Checkmat 700 Series gauges for temporary storage only.
- CC. For research and development as defined in 32 Ill. Adm. Code 310.20 and for calibration of instruments for licensee and customers.

CONDITIONS

- 1. A. Licensed material specified in License Schedule Items N., T., V., and BB. shall be used only at the licensee's facilities located at 6312 West Oakton Street, Morton Grove, Illinois in accordance with statements, representations and procedures listed in other conditions of this license.
- B. Licensed material specified in License Schedule Items B., I. through K., and W. through Y. shall be used only at customers' sites as temporary jobsites of the licensee in areas not under exclusive Federal jurisdiction throughout the State of Illinois in accordance with statements, representations and procedures listed in other conditions of this license.
- C. Licensed material specified in License Schedule Items A., C. through H., L., M., O. through S., U., Z., AA., and CC. shall be used at the address listed in condition 1.A. and at customer sites as temporary jobsites of the licensee in areas not under exclusive Federal jurisdiction throughout the State of Illinois in accordance with statements, representations and procedures listed in other conditions of this license.

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2. Radioactive material shall be used by, or under the supervision and in the physical presence of, Eli Port or individuals who have been trained in accordance with application dated May 26, 1999 (attachments dated June 17, 1999) and letter with attachments dated July 25, 2000 and letter with attachments dated December 18, 1998. The licensee shall maintain training records of all designated users.
3. The Radiation Safety Officer for this license is Eli A. Port.
4. In addition to the possession limits stated in License Schedule Items A. through J., L. through O., Q., R., T. through V., X. through CC., the licensee shall further restrict the possession of licensed material to quantities not to exceed the applicable limits referenced in Appendix A to 32 Ill. Adm. Code 326. For combinations of nuclides, the licensee must maintain a record for Agency inspection demonstrating for all possessed nuclides that the sum of the ratios of the quantity authorized and the limit established in Appendix A is not greater than one.
5. In addition to the possession limits stated in License Schedule Item A., the licensee shall further restrict the possession of licensed material to quantities not to exceed the applicable limits referenced in Appendix C to 32 Ill. Adm. Code 330 that require consideration of the need for an emergency plan in accordance with 32 Ill. Adm. Code 330.250(e) for responding to a release of licensed material. For combinations of nuclides, the licensee must maintain a record for Agency inspection demonstrating for all possessed nuclides that the sum of the ratios of the quantity authorized and the limit established in Appendix C is not greater than one.
6. The licensee shall not use radioactive material in or on humans or in field applications where radioactive material is released to the environment except as provided otherwise by specific condition of this license.
7. Experimental animals administered radioactive material or their products shall not be used for human consumption.
8. At any time the licensee is engaged in making measurements by authority of this license at a temporary job site, the licensee shall have a current copy of each of the following documents available at the temporary job site for inspection by the Agency:
 - A. The license, including all active amendments;
 - B. The manufacturer's instruction manual for the sealed sources and devices at the temporary job site;

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(Condition 8. continued)

- C. The licensee's emergency procedures; and
 - D. The results of the latest test for leakage and/or contamination performed on the sealed source.
9. A. Installation, initial radiation monitoring, relocation, or removal from service of devices containing radioactive material shall be performed by, or under the supervision of, individuals trained in accordance with application dated May 26, 1999 (attachments dated June 17, 1999) and letters with attachments dated December 18, 1998, November 16, 2000 and February 26, 2001, or performed by other persons specifically authorized by the Agency, an Agreement State, or the U.S. Nuclear Regulatory Commission to perform such services.
- B. Maintenance and repair of devices and installation, source removal, replacement and disposal of sealed sources containing radioactive material used in the devices shall be performed by or under the supervision of, individuals trained in accordance with application dated May 26, 1999 (attachments dated June 17, 1999) and letters with attachments dated November 16, 2000, December 18, 1998 and February 26, 2001, or performed by other persons specifically authorized by the Agency, an Agreement State, or the U.S. Nuclear Regulatory Commission to perform such services.
10. A. The source holder shall be locked in the "off" or closed position:
- (1) During any manipulation of a density or level device, including the source holder or the detector, that involves physical movement of the device and/or separation from equipment such as a pipe or vessel, including installation, relocation or storage;
 - (2) When individuals are working on or adjacent to a density or level device during periods of shutdown;
 - (3) Whenever an individual enters a vessel in which such a device is located; and
 - (4) Whenever a vessel with such a device is empty and an individual is working around the exterior of the vessel.
- B. Records of each installation or relocation shall be maintained which provide certification that the source holder has been locked in the "off" or closed position, a description of each location and the dates of the installation and removal.

* μ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; μ g-microgram; kg-kilogram

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(Condition 10. continued)

- C. Sealed sources containing radioactive material shall not be opened or removed from their respective source holders by the licensee.
11. Source holders containing licensed material shall be locked in the "off" or closed position when the device is not in use.
 12. When performing tests at temporary job sites, the authorized user shall not leave licensed material unattended. Upon completion of tests, the licensed material shall be locked in the licensee's vehicle or a secure building to prevent unauthorized use, loss, or theft.
 13. The licensee shall maintain a copy of the manufacturer's instruction manual at each facility and shall install and operate each device within the manufacturer's specified temperature and/or environmental limits such that the shielding and shutter mechanism of the source holder are not compromised. The licensee is authorized to install devices in accordance with letters with attachments dated February 26, 2001 and November 16, 2000 and in accordance with application dated May 26, 1999 with attachments dated June 17, 1999. Installation shall be performed by persons specifically authorized by the Agency, an Agreement State, or the U.S. Nuclear Regulatory Commission to perform such services.
 14. Except as specifically provided otherwise by the customer's license, the installation of level and density devices is prohibited where the vessel is equipped with an access portal which permits entrance of personnel into the vessel unless there is an interlocking mechanism installed in the system which prevents entrance at any time that the device is in the "on" position.
 15. After installation of each generally licensed device, the licensee shall conduct radiation monitoring to ensure that radiation levels do not exceed those specified in the license authorizing the manufacture or distribution of the installed device. The licensee shall furnish the customer a copy of the radiation monitoring report.
 16. The licensee shall test each device installed under this license for radioactive material leakage or contamination and for proper operation of the "on/off" mechanism and indicator, if any, at the time of installation of the device.
 17. Gas chromatograph detector cells containing radioactive material, except those containing hydrogen-3, shall be considered to be sealed sources in regard to testing for leakage and/or contamination and shall be tested in accordance with the requirements of 32 Ill. Adm. Code 340.410.

* μ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; μ g-microgram; kg-kilogram

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18. Maintenance, repair, cleaning, replacement and disposal of foils contained in detector cells shall be performed by the device manufacturer or other persons specifically authorized by the Agency, an Agreement State, or the U.S. Nuclear Regulatory Commission to perform such services.
19. The licensee is authorized to receive, possess and transfer depleted uranium in amounts not greater than 999 kilograms for use as shielding material in the radiography devices and source changers authorized by this license.
20. No generally licensed device shall be installed by the licensee in such a manner or in such location that any person could receive more than 1 mSv (0.1 rem) in a year under ordinary circumstances of use.
21. A. The Licensee shall notify the Agency prior to, if practicable, and in any case immediately after, taking any emergency action to relocate, possess, or receive any quantity of licensed material for purposes of safeguarding the material and/or health and safety of the public. The licensee shall:
- (1) Report by telephone to the Head, Radioactive Materials Section immediately after it becomes known to the licensee that due to the presence of licensed material in such quantities and circumstances that a substantial hazard may exist to persons in unrestricted areas;
 - (2) Describe the proposed actions to be taken to take possession of the licensed material and to alleviate the substantial hazard;
 - (3) Provide the names of licensee personnel involved in the actions and their telephone numbers where they may be contacted; and
 - (4) Take only those actions which are concurred in by the Head, Radioactive Materials Section. The licensee shall comply with any instructions received from the Agency, including a request to refrain from taking possession of radioactive material, or a request to surrender material to the Agency.
- B. Each report made pursuant to Condition 21.A., shall within 30 days after the licensee has determined that a substantial public hazard existed, be reported in writing to this Agency setting forth the following information:
- (1) A description of the licensed material involved including the kind, quantities, chemical and physical form;

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(Condition 21. continued)

- (2) A description of the circumstances under which the substantial public hazard occurred;
 - (3) A statement of the disposition or probable disposition of the licensed material; and
 - (4) A summary of the radiation exposures to individuals, the circumstances under which they occurred and the extent of the substantial hazard to persons in unrestricted areas.
22. Prior to use of licensed material in Item M. at temporary job sites, the license shall:
- A. Perform, or verify the performance of, an analysis to ensure that the quantities of radioactive material in each analytical sample do not exceed those specified in Item M. Records of this analysis shall be maintained for review by the Agency.
 - B. Obtain written permission from the owner of the temporary job site facility where the analysis will be performed. The licensee shall maintain copies of the written permission for review by the Agency.
23. A. Each sealed source shall be tested for leakage and/or contamination as specified in 32 Ill. Adm. Code 340.410. Tests for leakage and/or contamination shall be performed by persons specifically licensed to provide such services.
- B. Tests for leakage and/or contamination performed by the licensee shall be performed in accordance with procedures described in the application dated May 26, 1999 (attachments dated June 17, 1999) and letter with attachments dated July 25, 2000.
24. Sealed source leakage or contamination tests provided as a service shall be conducted in accordance with 32 Ill. Adm. Code 340.410 and the following:
- A. The conditions of pertinent Agency, Agreement State and U.S. Nuclear Regulatory Commission licenses authorizing the customer's use and possession of the radioactive material; and
 - B. The procedures described in the application submitted by the licensee, dated May 26, 1999 (attachments dated June 17, 1999) and letter with attachment dated July 25, 2000.

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(Condition 24. continued)

- C. Sealed source leak test certificates shall identify: the manufacturer, model and serial number, if assigned, of each source tested, the identity of each source radionuclide, the results for each test sample expressed in Bq or μCi , the date the sample was collected, the date the sample was analyzed, and the identity of the individual who analyzed the sample(s).
25. The licensee shall maintain a financial assurance arrangement in accordance with 32 Ill. Adm. Code 326.70(a).
26. Except as specifically provided otherwise by the license, the licensee shall possess and use radioactive material described in all schedules of this license in accordance with statements, representations and procedures contained in, referenced in, or enclosed with the documents listed below. The regulations contained in 32 Ill. Adm. Code: Chapter II, Subchapters b and d shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations. The most recent statements, representations and procedures listed below shall govern if they conflict with previously submitted documents.
- A. Applications dated May 26, 1999 (attachments dated June 17, 1999) and May 28, 2014.
- B. Letters, with attachments, dated November 18, 1996, January 14, 1997, May 8, 1998, January 13, 1999, January 4, 2000, July 25, 2000, November 16, 2000, February 26, 2001, January 19, 2005, and March 8, 2012.
- C. Letters dated February 18, 2000 and October 7, 2005.
- D. Electronic submission dated May 22, 2014.
- E. Letter, with attachment, dated October 7, 2005, in response to the Agency's letters, with attachments, dated September 20, 2005 regarding "Increased Controls for Licensees that Possess Sources Containing Radioactive Material Quantities of Concern," and as subsequently revised where the licensee describes administrative/physical arrangements such that material exceeding the quantities of concern is not collocated. Prior to any additional receipt of material, facility modifications or other changes which could result in collocated materials exceeding the quantities of concern, the licensee shall request and obtain an amendment which addresses the increased controls.
- F. Electronic correspondence with attachments dated September 26, 2014, 11:33 a.m.

* μCi -microcurie; mCi -millicurie; Ci -Curie; MBq -Megabecquerel; GBq -Gigabecquerel; TBq -Terabecquerel; g -gram; μg -microgram; kg -kilogram

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(Condition 26. continued)

- G. In addition to the possession limits referenced in the license schedule, the licensee shall further restrict possession of radionuclides listed in the table below to the quantities noted within the table. Sum of fractions for the radionuclides listed below shall not exceed unity:

<u>Radionuclide</u>	<u>Quantity (curies)</u>	<u>Radionuclide</u>	<u>Quantity (curies)</u>
Am-241	16	Pm-147	10,800
Am-241:Be	16	Pu-238	16
Cf-252	5.4	Pu-239:Be	16
Cm-244	13.5	Ra-226	10.8
Co-60	8.1	Se-75	54
Cs-137	27	Sr-90 (Y-90)	270
Gd-153	270	Tm-170	5,400
Ir-192	21.6	Yb-169	81

MEB:wnc:kjc

* μ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; μ g-microgram; kg-kilogram

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DATE

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Mary E. Burkhart, Supervisor of Materials Licensing

July 23, 2015

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