To: United Stated Nuclear Regulatory Commission

Region 1

2100 Renaissance Blvd.

King of Prussia, PA 19406-2713

ATTN: LAT

Subject: Checklist for the Renewal application dated July 9, 2020

License # 45-25532-01

Docket # 030-35452

Mail control # 622723

Dear Sir,

Please find attached the appendix B checklist for the renewal application I sent dated July 9, 2020 for NRC License # 45-25532-01.

Thank you for your assistance.

David M. Matheny

David Matheny, RSO

ECS Mid-Atlantic, LLC

804 Professional Place West

Chesapeake, VA 23320

NRC FORM 374

U.S. NUCLEAR REGULATORY COMMISSION

Amendment No. 14

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 37, 39, 40, 70 and 71, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material 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 regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee	In accordance with letter dated November 7, 2016,	4. Expiration Date: September 30, 2020
1. ECS Mid-Atlantic, LLC 2. 804 Professional Place West Chesapeake, VA 23320	3. License number: 45-25532-01 is amended in its entirety to read as follows:	5. Docket No.: 030-35452 Reference No.:

6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license	9. Authorized use
A. Cesium-137	A. Sealed Sources (Isotope Product Laboratories, Model HEG-137; QSA, Inc., Model CDCW556)	A. 9 millicuries per source and 63 millicuries total	A. For use in Troxler Electronic Laboratories Model 3400 Series and 3411B portable gauging devices for measuring physical properties of materials.
B. Cesium-137	B. Sealed Sources (CPN International Division of InstroTek, Inc., Model CPN-131)	B. 10 millicuries pe source and 20 millicuries total	B. For use in CPN International Model MC PORTAPROBE portable gauging devices for measuring physical properties of materials.
C. Americium-241/ Beryllium	C. Sealed Neutron Source (Isotope Products Laboratories, Model Am1.NO2; Model 3021; Model 3027; QSA Global, Inc., Model AMN.V997)	C. 44 millicuries per source and 352 millicuries total	C. For use in Troxler Electronic Laboratories Models 3400 Series, 3411B, and 3216 portable gauging devices for measuring physical properties of materials.

MATERIALS LICENSE SUPPLEMENTARY SHEET	License Number 45-25532-01	Docket or Reference Number 030-35452
	Amendment No. 14	

6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license	9. Authorized use
D. Americium-241/ Beryllium	D. Sealed Neutron Source (CPN International Division of InstroTek, Inc., Model CPN-131)	D. 50 millicuries per source and 100 millicuries total	D. For use in CPN International Model MC Series PORTAPROBE portable gauging devices for measuring physical properties of materials.

CONDITIONS

10. Licensed material may be used at temporary job sites anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material, including areas of exclusive Federal jurisdiction within Agreement States.

    If the jurisdiction status of a Federal facility within an Agreement State is unknown, the licensee should contact the Federal agency controlling the job site in question to determine whether the proposed job site is an area of exclusive Federal jurisdiction. Authorization for use of radioactive materials at job sites in Agreement States not under exclusive Federal jurisdiction shall be obtained from the appropriate state regulatory agency.

11. Licensed material shall only be used by, or under the supervision and in the physical presence of, individuals who have received the training described in the application dated September 23, 2010. The licensee shall maintain records of individuals designated as users for 3 years following the last use of licensed material by the individual.

12. The Radiation Safety Officer (RSO) for this license is David M. Matheny.

13. Sealed sources or source rods containing licensed material shall not be opened or sources removed from source holders or detached from source rods by the licensee, except as specifically authorized.

Suggested Format for Providing Information Requested in Items 5 through 11 of U.S. Nuclear Regulatory Commission Form 313

Items 5 and 6: Materials To Be Possessed and Proposed Uses

Yes	No	Radionuclide	Manufacturer or Distributor Model No.	Quantity	Use as Listed on SSD Registration Certificate	Specify Other Uses Not Listed on SSD Registration Certificate
		Cesium-137	Gauge manufacturer (or distributor) and model number: _____	Specify activity per source and number of gauges requested. _____ _____	Yes ❒ Specific description of the gauge use: _____ _____ _____ _____ _____ _____ _____	❒ Not applicable _____ ❒ Uses are: _____ (Submit safety analysis supporting safe use.)
		Americium-241	Gauge manufacturer (or distributor) and model number: _____	Specify activity per source and number of gauges requested. _____ _____	Yes ❒ Specific description of the gauge use: _____ _____ _____ _____ _____ _____ _____	❒ Not applicable _____ ❒ Uses are: _____ (Submit safety analysis supporting safe use.)

Yes	No	Radionuclide	Manufacturer or Distributor Model No.	Quantity	Use as Listed on SSD Registration Certificate	Specify Other Uses Not Listed on SSD Registration Certificate
		Californium-252	Gauge manufacturer (or distributor) and model number: _____	Specify activity per source and number of gauges requested. _____ _____	Yes ❒ Specific description of the gauge use: _____ _____ _____ _____ _____ _____	❒ Not applicable _____ ❒ Uses are: _____ (Submit safety analysis supporting safe use.)
		Radium-226	Gauge manufacturer (or distributor) and model number: _____	Specify activity per source and number of gauges requested. _____ _____	Yes ❒ Specific description of the gauge use: _____	❒ Not applicable _____ ❒ Uses are: _____ (Submit safety analysis supporting safe use.)
		Other Isotope (Specify):	Gauge manufacturer (or distributor) and model number: _____	Specify activity per source and number of gauges requested. _____ _____	Yes ❒ Specific description of the gauge use: _____	❒ Not applicable _____ ❒ Uses are: _____ (Submit safety analysis supporting safe use.)
		Is financial assurance required? If yes, submit evidence of financial assurance.				

Items 7 through 11: Training and Experience, Facilities and Equipment, Radiation Safety Program, and Waste Disposal

Item No. and Title	Suggested Response	Yes	Alternative Procedures Attached
7. **INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE— RADIATION SAFETY OFFICER** Name: DAVID MATHENY	Documentation demonstrating the proposed radiation safety officer's training and experience (e.g., certificate of completion of the RSO's course and/or the authorized user's course).	Submit applicable documentation.	
8. **TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS**	Before using licensed materials, authorized users will have successfully completed one of the training courses described in the "Criteria" part of the section titled, "Training for Individuals Working in or Frequenting Restricted Areas" in NUREG–1556, Vol. 1, Rev. 2, "Consolidated Guidance About Materials Licenses: Program-Specific Guidance About Portable Gauge Licenses."	☑	☐
9. **FACILITIES AND EQUIPMENT**	Provide a facility diagram for each permanent portable gauge storage location. Include on the diagram the use of adjacent areas (including above and below), and 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," respectively, in NUREG–1556, Vol. 1, Rev. 2, "Consolidated Guidance About Materials Licenses: Program-Specific Guidance About Portable Gauge Licenses"	Submit applicable documentation. No Storage Facilities in NRC Jurisdiction	

Item No. and Title	Suggested Response	Yes	Alternative Procedures Attached
10.1 RADIATION SAFETY PROGRAM—AUDIT PROGRAM	The applicant should not submit its audit program to the NRC for review during the licensing phase. The audit program will be reviewed during NRC inspections.	Need Not Be Submitted with Application	
10.2 RADIATION SAFETY PROGRAM—RADIATION MONITORING INSTRUMENTS	We will either possess and use, or have access to and use, a radiation survey meter that meets the criteria in the section titled, "Radiation Safety Program—Radiation Monitoring Instruments" in NUREG–1556, Vol. 1, Rev. 2, "Consolidated Guidance About Materials Licenses: Program-Specific Guidance About Portable Gauge Licenses," in the event of an incident.	☑	☐
10.3 RADIATION SAFETY PROGRAM—MATERIAL RECEIPT AND ACCOUNTABILITY	Physical inventories will be conducted every 6 months or at other intervals approved by the NRC to account for all sealed sources and devices received and possessed under the license. AND We will develop, implement, and maintain procedures for ensuring accountability of licensed materials at all times.	☑	☐
10.4 RADIATION SAFETY PROGRAM—OCCUPATIONAL DOSE	We will maintain, for inspection by the NRC, documentation demonstrating that unmonitored individuals are not likely to receive a radiation dose in excess of the limits in 10 CFR 20.1502(a). OR We will provide and require the use of individual monitoring devices (dosimetry). All personnel dosimeters that require processing to determine the radiation dose will be processed and evaluated by a NVLAP-approved processor.	☑ ☐	☐

Item No. and Title	Suggested Response	Yes	Alternative Procedures Attached
10.5 RADIATION SAFETY PROGRAM—PUBLIC DOSE	The applicant is *not* required to submit a response to the public dose section in a license application. This matter will be examined during NRC inspections.	Need Not Be Submitted with Application	
10.6 RADIATION SAFETY PROGRAM—OPERATING, EMERGENCY, AND SECURITY PROCEDURES	We will implement and maintain the operating, emergency, and security procedures in Appendix G to NUREG–1556, Vol. 1, Rev. 2, "Consolidated Guidance About Materials Licenses: Program-Specific Guidance About Portable Gauge Licenses." Copies of these procedures will be provided to all gauge users and will be available at each jobsite. OR Operating, emergency, and security procedures will be developed, implemented, and maintained and will meet the criteria in section 8.10.6, "Radiation Safety Program—Operating, Emergency, and Security Procedures," NUREG–1556, Vol. 1, Rev. 2, "Consolidated Guidance About Materials Licenses: Program-Specific Guidance About Portable Gauge Licenses." Copies of these procedures will be provided to all gauge users and will be available at each jobsite.	☑ ☐	☐ For this item, checking this box indicates that alternative procedures will be provided as part of the application and that these procedures will be provided to all gauge users and will be available at each jobsite.

Item No. and Title	Suggested Response	Yes	Alternative Procedures Attached
10.7 RADIATION SAFETY PROGRAM—LEAK TEST	Leak tests will be performed at intervals approved by the NRC or an Agreement State and specified in the SSD registration certificate. Leak tests will be performed by an organization licensed by the NRC or an Agreement State to provide leak testing services to other licensees; or by using a leak test sample collection kit supplied by an organization licensed by the NRC or an Agreement State to provide leak test kits and/or sample analysis services to other licensees and according to the kit supplier's instructions. Records of leak test results will be maintained. OR We will implement the model leak test program published in Appendix I of NUREG–1556, Volume 1, Revision 2, "Consolidated Guidance About Materials Licenses: Program-Specific Guidance About Portable Gauge Licenses." Records of leak tests will be maintained.	☒ ☐	☐ For this item, checking this box indicates that alternative equipment and/or procedures will be provided as part of the application and that records of leak tests will be maintained.

Item No. and Title	Suggested Response	Yes	Alternative Procedures Attached
10.8 RADIATION SAFETY PROGRAM—MAINTENANCE	*Routine Cleaning and Lubrication* We will implement and maintain procedures for routine maintenance of our gauges according to each manufacturer's written recommendations and instructions. *Nonroutine Maintenance* The gauge manufacturer or other person licensed by the NRC or an Agreement State will perform nonroutine maintenance or repair operations that require detaching the source or source rod from the gauge.	☒ ☒	☐ ☐ The information listed in Appendix F of this NUREG supporting a request to perform nonroutine maintenance in house is attached.
10.9 RADIATION SAFETY PROGRAM—TRANSPORTATION	The applicant is *not* required to submit a response about transportation during the licensing process. The NRC will review this issue during inspection.	Need Not Be Submitted with Application	
11. WASTE MANAGEMENT—GAUGE DISPOSAL AND TRANSFER	The applicant is *not* required to submit a response about waste management during the licensing process; however, the licensee should establish and include gauge transfer and waste disposal procedures in its radiation safety program.	Need Not Be Submitted with Application	