



Department of the Environment

RADIOLOGICAL HEALTH PROGRAM
RADIOACTIVE MATERIAL LICENSE

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Pursuant to the Maryland Radiation Act, 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 radioactive material listed below; and to use such radioactive material for the purpose(s) and at the place(s) designated below. The license is subject to all applicable rules, regulations and orders of the Maryland State Department of the Environment, now or hereinafter in effect and to any conditions specified below.

1. Name: Maryland Q.C. Laboratories, Inc. dba MQC Labs, Inc.		3. License No.: MD-25-022-01
2. Address: 1550 South Philadelphia Boulevard Aberdeen, Maryland 21001		4. Amendment No.: 69: Renewal Code 03320
		5. Expiration Date: September 30, 2028
6. Radioactive material (element & mass number):	7. Chemical and/or physical form:	8. Maximum amount of activity which licensee may possess at any one time:
A. Iridium-192	A. Sealed radiography source contained in a source assembly registered pursuant to 10 CFR 32.210 or equivalent Agreement State regulation. QSA Global - 880D	A. Confidential
B. Cesium-137	B. Sealed Source (Amersham 77302)	B.
C. Depleted Uranium	C. Metal encased in steel	C.

9. Authorized Use(s):

- A. For use in compatible radiographic exposure device registered pursuant to 10 CFR 32.210 or equivalent Agreement State regulation for performing industrial radiography and in a compatible source changer registered pursuant to 10 CFR 32.210 or equivalent Agreement State regulation for source storage and exchange.
- B. For use in compatible radiographic exposure device registered pursuant to 10 CFR 32.210 or equivalent Agreement State regulation for performing industrial radiography and in a compatible source changer registered pursuant to 10 CFR 32.210 or equivalent Agreement State regulation for source storage and exchange.
- C. Shielding material.

LICENSE CONDITIONS

10. The authorized place of use is 1550 South Philadelphia Blvd, Aberdeen, Maryland 21001 and temporary job sites of the licensee throughout Maryland, with the exception of areas under exclusive federal jurisdiction. The licensee must notify the Radiological Health program 30 days prior to vacating a permanent use address.



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CONDITIONS CONTINUED

- 11A. The radiation protection program shall be under the supervision of Jennifer S. Fabie, assisted by Brian Pierce.
- 11B. Radioactive materials shall be used by radiographers and radiographer's assistants who have been certified in accordance with Maryland Q.C. Laboratories Inc. Radiation Management procedures, as amended. Documentation of the individual's qualifications must be submitted to the Agency.
- 12. The licensee shall comply with all appropriate provisions of COMAR 26.12.01.01 "Regulations for the Control of Ionizing Radiation," and shall possess a copy of these regulations. "
- 13A. Each sealed source containing radioactive material, other than Hydrogen-3 with a half-life greater than thirty (30) days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six (6) months. In the absence of a certificate from a transferor indicating that a test has been made within six (6) months prior to the transfer, the sealed source shall not be put into use until tested. If there is reason to suspect that a sealed source might have been damaged, or might be leaking, it shall be tested for leakage before further use.
- 13B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of a device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate.
- 13C. Records of leak tests shall be kept in units of microcuries and maintained for inspection by the Department.
- 13D. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Department regulations. A report shall be filed within five (5) days of the test with the Administrator, Radiological Health Program, 1800 Washington Boulevard, Baltimore, Maryland 21230 describing the equipment involved, the test results, and the corrective action taken.
- 13E. Test for leakage and/or contamination shall be performed by the licensee or by other persons specifically authorized by the Department, the U.S. Nuclear Regulatory Commission or another Agreement State to perform such services.
- 14. The licensee shall conduct a physical inventory every six (6) months to account for all sealed sources received and possessed under the license. The records of the inventories shall be maintained for three (3) years from the date of the inventory for inspection by the Department, and shall include the quantities and kinds of radioactive material, location of sealed sources, and the date of the inventory.



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CONDITIONS CONTINUED

15. The licensee is authorized to receive, possess, and use sealed sources of Iridium-192 where the radioactivity exceeds the maximum amount of radioactivity specified in Item 8 of this license provided:
 - A. Such possession does not exceed the quantity per source specified in Item 8 by more than 20% for Iridium-192;
 - B. Records of the licensee show that no more than the maximum amount of radioactivity per source specified in Item 8 of the license was ordered from the supplier or transferor of the radioactive material; and
 - C. The levels of radiation for radiographic exposure devices and storage containers do not exceed those specified in Section E.21 of Part E "Limits on External Radiation Levels Storage Containers and Source Changers" of the Maryland Regulations COMAR 26.12.01.01 "Regulations for the Control of Ionizing Radiation".
16. Industrial radiography shall be performed with a minimum of two (2) radiographic personnel, at least one a radiographer, physically present at the radiography site.
17. Transportation of radioactive material in the State of Maryland shall be in compliance with Part T, Section T.5 "Transportation of Licensed Material" of COMAR 26.12.01.01.
- 18A. The licensee shall not make any false statement, representation, or certification in any application, record, report, plan, or other document regarding radiation levels, tests performed or radiation safety conditions or practices. Additionally, the licensee shall not falsify, tamper with, or render inaccurate any monitoring device or method.
- 18B. Violation of any term, condition, or regulation could subject the licensee to administrative or civil penalty or criminal prosecution, as specified in Title 8, Radiation, of the Article Environment of the Annotated Code of Maryland.
19. The licensee shall not transfer ownership and/or control of this license to any person or entity without providing required information regarding the transfer for the Agency's review and without receiving written authorization for the transfer by the Agency.



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CONDITIONS CONTINUED

20A. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material authorized by this license in accordance with statements representations, and procedures contained in:

- **Letter with attachment dated March 12, 2021, adding Adam Shetter as a Radiographer.**
- **Renewal application dated March 26, 2021, and additional information received on July 19, 2021 and August 26, 2021.**

20B. The licensee shall be in compliance with all applicable requirements of COMAR 26.12.01.01 Part V, "Physical Protection of Category 1 and Category 2 Quantities of Radioactive Material" if the licensee possesses an aggregated Category 1 or Category 2 quantity or greater as specified in Appendix A of Part V.

20C. The licensee must comply with the reporting requirements for transactions involving nationally tracked sources in 10 CFR § 20.2207. This section includes the requirement to report any manufacture, transfer, receipt, disassembly, or disposal of a nationally tracked source, otherwise allowed by this license, by the close of the next business day after the transaction. A nationally tracked source, as defined in 10 CFR § 20.1003, refers to a sealed source containing a quantity equal to or greater than Category 1 or Category 2 levels of any radioactive material listed in Appendix E to 10 CFR Part 20 - "Nationally Tracked Source Thresholds."

COMAR 26.12.01.01 "Regulations for the Control of Ionizing Radiation" shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.

FOR THE MARYLAND DEPARTMENT OF THE ENVIRONMENT

August 27, 2021

TAL *hml 9/7/2021*

CoC 9/7/2021

Eva S. Nair, Program Manager IV
Radiological Health Program
Air and Radiation Administration