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FAX

TO: DENNIS LAWYER NRC

FAX NUMBER: 610-337-5269

FROM: SEAN O'HARA RSO

FAX NUMBER: 304.624.3106

DATE: 12/20/16

REGARDING: LIC# 47-35262-01 DOCKET# 03038861

NUMBER OF PAGES: 4 INCLUDING COVER

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COMMENTS:

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UNCLASSIFIED MATERIAL

This is in reference to our application dated October 7, 2016, requesting for amendment to Nuclear Regulatory Commission License No. 47-35262-01, Docket No. 03038861.

We would like to be licensed for 2 (two) nuclear density gauges Humbolt Scientific Model 5001-SD with Cs-137 sealed source # Humbolt 2200064 not to exceed 11 millicuries per source, and Am-241 sealed source # Humbolt 2200067 not to exceed 44 millicuries per source. Totals: 22 mCi of Cs-137 and 88mCi of Am-241.

The gauges will be used for the purpose of testing density of materials such as soil and asphalt.

The Radiation Safety Officer's training specific to Portable Gauge Licenses for myself, Sean E. O'Hara is attached.

All users of Portable Gauges will be trained before using licensed material in accordance with NUREG-1556 Vol. 1 at Humbolt Scientific. Training is to include;

- Atomic Theory
- Radiation Safety
- Dose/Shielding Calculations
- Accidents/Storage
- Operation
- Field Applications
- Transportation
- Risk
- ALARA
- Measurement Theory
- Calibration
- Maintenance

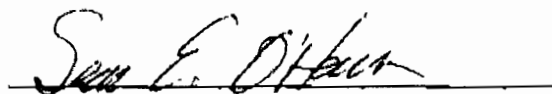
The portable gauges will be stored within our vault with our other radiography sources. Even with the addition of the portable gauges, the public dose on the outside of the vault and adjacent areas calculates to well below 100mr/yr. As the already existing diagram included with our original license demonstrates.

We will provide and require the use of individual monitoring devices (dosimetry). All personal dosimeters that require processing to determine the radiation dose will be processed and evaluated by a NVLAP approved processor.

We will implement and maintain operating, emergency, and security procedures in Appendix G to NUREG-1556, Volume 1, revision 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.

We will implement and maintain procedures for routine maintenance of our gauges according to each manufacturer's written recommendations and instructions.

The gauge manufacturer, or other person licensed by the NRC or an Agreement State will perform non-routine maintenance or repair operations that require detaching the source or source rod from the gauge.



Date: 12/20/16

Sean E. O'Hara

General Manager / Radiation Safety Officer

PREMIER

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HUMBOLDT SCIENTIFIC, INC.

RSO Certification

Sean O'Hara

HAS SUCCESSFULLY COMPLETED A CERTIFIED RADIATION SAFETY OFFICER COURSE

Subjects included were:

RSO Duties and Responsibilities

Radiation Safety Practices

Regulatory Requirements

Dose/Shielding Requirements

Accidents/Storage

Regulatory Guidance (NUREG-1556, Vol. 1)

Transportation/HAZMAT Requirements

Risk

ALARA

Radiation Measurement

Operating and Emergency Procedures

Calibration and Maintenance

Record Keeping

Date of Training: November 18, 2016

Location: Glen Allen, VA

Certificate Number: 10049

HAZMAT Expiration Date: November 18, 2019

Instructor: Keith Earnshaw

Humboldt Scientific, Inc.

2525 Atlantic Ave

Raleigh, NC 27604