

June 5th, 2018

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, D.C. 20555

Re: Reply to a Notice of Violation

Dear Sir/Madam:

Regarding your Notice of Violation dated May 9th, 2018 and Inspection No. 030-38520/2018001, the following is Coastal Materials Testing Lab's response:

Item A:

Reason for violation:

We have been using an In-House Self-Assessment Form; our form, as pointed out by Mr.Randolph Rangland, did not include all the items to be assessed.

Corrective Steps:

Per Mr. Rangland's advice, we downloaded the guidelines of Appendix E of the NUREG-1556, Volume 1, Revision 2-NRC.and are now using these guidelines to perform our assessments.

Date Full Compliance Achieved:

April 12th, 2018 (Attached is a copy of the latest assessment made using the said guideline).

Item B:

Reason for violation:

An oversight happened with two employees and their training was not kept up to date since they came to our company with training certifications from their previous employers.

Corrective Steps:

All our employees attended the hazmat training offered locally in Newtown, CT

Date Full Compliance Achieved:

May 19th, 2018 (Attached is a copy of all the certificates obtained for all employees).

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Coastal Materials Testing Lab, LLC.

10 Hart Street West Haven, CT 06516 o Tel (203) 691-5966 o Fax (203) 691-5238 coastalmaterialstesting.com

Item C:

Reason for violation:

We were using chains that go over the gauge case top and side handles, in some cases, as Mr Rangland pointed out, the chains could be loose which makes the gauge accessible by moving the chain to the side.

Corrective Steps:

All of our gauges now have a lock at the gauge case latch in addition to the chain to prevent the case from being opened.

Date Full Compliance Achieved:

March 27th, 2018 at the time of the inspection.

Sincerely, SIK

Salah Al-Bakri, President/RSO Coastal Materials Testing Lab, LLC

cc: Regional Administrator-Region 1

Portable Gauge Audit Checklist

Note: All areas indicated in audit notes may not be applicable to every license and may not need to be addressed during each audit. For example, licensees do not need to address areas that do not apply to their activities, and activities that have not occurred since the last audit need not be reviewed during the next audit.

Licensee's name Coastal Materia	STESTING Laburcicense No. 06	-31464-0)
Date of This Audit 4/12/2018	Date of Last Audi	t March 2017
Audit Date Range	March ~ March.	
Saat be	Salah M. Al-Bakri (RS)4/12/18
Auditor Signature	Auditor Printed Name	Date
. Araceli Saver	AraceliJavier	6/5/18
Management Signature	Management Printed Name	Date '

1. AUDIT HISTORY

- a. Were previous audits conducted periodically (at least annually)? (10 CFR 20.1101) Yes
 b. Were records of previous audits maintained? (10 CFR 20.2102) Yes (old seconds were not complete and did not cover all areas in this audits.
- c. Were any deficiencies identified during the last two audits or 2 years, whichever is longer? 10
- d. Were corrective actions taken? (Look for repeated deficiencies)

2. ORGANIZATION AND SCOPE OF PROGRAM

- a. If the mailing address or places of use and/or storage changed, was the license amended? [License Condition (L/C)] No changes.
- b. If ownership changed or bankruptcy was filed, did the licensee obtain prior U.S. Nuclear Regulatory Commission (NRC) consent or notify the NRC? [10 CFR 30.34(b)]
- c. If the licensee changed the radiation safety officer (RSO), was the license amended? (L/C) No Changes
- d. Sealed Sources and Devices
 - 1. Does the license authorize all of the NRC-regulated radionuclides contained in the gauges possessed? (L/C) Yes
 - 2. Are the gauges as described in the Sealed Source and Device (SSD) registration certificate? (L/C) Yes
 - 3. Are copies of (or access to) SSD registration certificates available? Yes

- 4. Are manufacturer's manuals for operation and maintenance available? Resources in (10 CFR 32.210) mantenance is performed by QC Neutom. C.
- 5. Are the actual uses of gauges consistent with the authorized uses listed on the license? (L/C) Yes
- Are the locations of use of the gauges compatible with the "Conditions of Normal Use" and "Limitations and/or Other Considerations of Use" on the SSD registration certificates? (L/C) Yes
- e. Is the current inventory of material below the possession limits listed on the license? (L/C) YES

TRAINING AND INSTRUCTIONS TO WORKERS 3.

- a. Were all workers who are likely to exceed 1 mSv [100 mrem] in a year instructed per 10 CFR 19.12? Was refresher training provided, as needed? Were records All but (2) - all employees attended traininging on 5/19/18 @ QC Resources maintained?
- b. Is each gauge operator trained in accordance with license requirements? (L/C) 185
- c. Are training records maintained for each gauge operator?
- Yes d. Did interviews with operators reveal that they know the operating, emergency and security procedures?
- e. Did this audit¹ include observation of operators using the gauge in a field situation? Operating the gauge? Performing routine cleaning and lubrication? Transporting the gauge? Storing the gauge? Was the use of the gauge in accordance with regulations? res
- f. Did the operator demonstrate safe handling and security during transportation, use, and storage? 405
- g. Was U.S. Department of Transportation (DOT) hazardous material (HAZMAT) training (required at least once every 3 years) provided as required? (49 CFR 172.700, 49 CFR 172.701, 49 CFR 172.702, 49 CFR 172.704) ON S/19/18 All employees attended RADIATION SURVEY INSTRUMENTS

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- a. If the licensee possesses its own survey meter, does the survey meter meet NRC requirements? [10 CFR 20.1501(c)] Meter is owned by Situ Company and accessible
- b. Are calibration records maintained, if applicable? [10 CFR 20.2103(a)] PG .
- c. If the licensee does not possess a sulvey meter, are specific plans made to have one vith plans to purchase a grage thas week available in the event of an emergency?

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¹The auditor should consider performing a performance-based review consisting of field observations and tours.

5. GAUGE INVENTORY

- a. Is a record kept showing the receipt of each gauge? [10 CFR 30.51(a)(1)]
- b. Are all gauges physically inventoried every 6 months or at other intervals approved by the NRC? (L/C) *Yes.* (*duily inventory* - 103s (*lept*)

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c. Are records of inventory with appropriate information maintained? (L/C)

6. PERSONNEL RADIATION PROTECTION

- a. Are considerations for keeping doses as low as is reasonably achievable (ALARA) incorporated into the radiation protection program? [10 CFR 20.1101(b)] $\forall e \leq$
- b. Were prospective evaluations performed showing that unmonitored individuals receive less than the limits in 10 CFR 20.1502(a)? Did these evaluations consider doses to minors [10 CFR 20.1502(a)(2)] and declared pregnant women [10 CFR 20.1502(a)(3)]?
- c. Did unmonitored individuals' activities change during the year in a way that could put them over the limits in 10 CFR 20.1502(a)? If yes, was a new evaluation performed? $\int \int \partial$
- d. If external dosimetry is required [i.e., when individuals are likely to receive greater than the limits in 10 CFR 20.1502(a)], is dosimetry provided to these individuals? If yes, address the following:
 - 1. Is the dosimetry supplier approved by the National Voluntary Laboratory Accreditation Program? [10 CFR 20.1501(c)]
 - 2. Are the dosimeters exchanged at the appropriate frequency?
 - 3. Are dosimetry reports reviewed and signed by the RSO when they are received? \mathcal{AeS}
 - 4. Are the records based on NRC forms or the equivalent? [10 CFR 20.2104(d), 10 CFR 20.2106(c)]
 - Is NRC Form 4, "Cumulative Occupational Exposure History," completed?
 - Is NRC Form 5, "Occupational Dose Record for a Monitoring Period," completed?

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- e. Are there any declared pregnant workers?
 - 1. If a worker declared her pregnancy, did the licensee comply with 10 CFR 20.1208, "Dose equivalent to an embryo/fetus"?
 - 2. Were records kept of embryo/fetus dose per 10 CFR 20.2106(e)?
- f. Are records of exposures, surveys, monitoring, and evaluations maintained? (10 CFR 20.2102, 10 CFR 20.2103, 10 CFR 20.2106)

7. PUBLIC DOSE

- Are gauges stored in a manner to keep doses to members of the public below 1 millisievert (mSv) (100 mrem) in a year? [10 CFR 20.1301(a)(1)]
- b. Has a survey or evaluation been performed per 10 CFR 20.1501(a)? Have there been any additions or changes to the storage, security, or use of the surrounding areas that would necessitate a new survey or evaluation?
- c. Do unrestricted area radiation levels exceed 0.02 mSv (2 mrem) in any one hour? [10 CFR 20.1301(a)(2)] NO
- d. Are gauges being stored in a manner that would prevent unauthorized use or removal? (10 CFR 20.1801) Yes
- e. Are records of surveys maintained? (10 CFR 20.2103, 10 CFR 20.2107)

8. OPERATING, EMERGENCY, AND SECURITY PROCEDURES

Note: An ideal way to assess the adequacy and adherence to operating procedures is by observing work in progress.

- a. Have operating, emergency, and security procedures been developed and updated to incorporate any new elements, practices, or requirements?
- b. Does each operator have current copies of the operating, emergency, and security procedures, including current emergency telephone numbers? $4eg_{eg}_{eg}$ (Bill of Labivis)
- c. Did any emergencies occur? XI ()
 - 1. If so, were they handled properly? M/λ_{T}
 - 2. Were appropriate corrective actions taken?
- d. Were gauges properly controlled or secured during use or storage? (10 CFR 20.1801, 10 CFR 20.1802) Are the gauges in storage being secured with two independent physical controls? [10 CFR 30.34(i)] Yes added during on Site assessment _ plus alarm + Video Surveillance

9. LEAK TESTS

- Were sealed source leak tests performed every 6 months or at other authorized intervals? (L/C) Yes
- b. Were leak tests performed in accordance with license requirements? (L/C)
- c. Are records of leak test results retained with all of the required information included? (L/C) Yes
- d. Were any sources found to be leaking, and if yes, was the NRC notified? (L/C)

No

10. MAINTENANCE OF GAUGES

- a. Are manufacturer's procedures followed for routine cleaning and lubrication of the gauge? 40>
- b. Does the source rod remain attached to the gauge during cleaning? (L/C)
- c. Is nonroutine maintenance performed where the source or source rod is detached from the gauge? If yes, was it performed according to license requirements (e.g., extent of work, individuals performing the work, procedures, dosimetry, survey instrument, compliance with limits under 10 CFR 20.1301, "Dose limits for individual members of the public")? Maintenance by QC Resources - Newtown CT
- d. Are labels, signs, and postings identifying gauges containing radioactive material, radiation areas and warnings clean and legible? Yes,

11. TRANSPORTATION

- a. Were U.S. Department of Transportation (DOT)-7A or other authorized packages used? [49 CFR 173.415, 49 CFR 173.416(b)] ¥€S
- b. Are Type A package, engineering drawings, and performance test records on file? [49 CFR 171.2 (a, b, e), 49 CFR 173.415(a)] Yes
- c. For any special form source, is the International Atomic Energy Agency Certificate of Competent Authority or other safety analysis documentation maintained on file? [49 CFR 173.476(a)] NIA
- d. Were packages properly labeled? (49 CFR 172.400, 49 CFR 172.403, 49 CFR 172.406, 49 CFR 172.407) Yes
- e. Were packages properly marked? (49 CFR 172.301, 49 CFR 172.304, 49 CFR 172.310, 49 CFR 172.324) Yes
- Were packages closed and sealed (e.g., locked) during transport? [49 CFR 173.475(f)] 40^{2} Were shipping papers prepared and used? [49 CFR 172.200(a)] 40^{2} f.
- g.
- h. Did the shipping papers contain proper entries {e.g., proper shipping name, hazard class, identification number [United Nations (UN)] number, total quantity, package type, nuclide, reportable quantity (RQ)(if applicable), physical and chemical form, activity (International System of Units required), category of label, Transportation Index (TI), shipper's name, certification and signature, emergency response phone number, and cargo aircraft only (if applicable)}? (49 CFR 172.200, 49 CFR 172.201, 49 CFR 172.202, 49 CFR 172.203, 49 CFR 172.204, 49 CFR 172.604)
- Were the shipping papers within the driver's reach and readily accessible during I. yes transport? [49 CFR 177. 817(e)]

Were packages secured against movement? (49 CFR 177.834) yes j.

- k. Were placards on the vehicle, if needed? (49 CFR 172.504) M/A
- I. Were overpacks, if needed, used properly? (49 CFR 173.25) N//
- m. Were any incidents reported to the DOT? (49 CFR 171.15, 49 CFR 171.16) $\mu//4$

12. AUDITOR'S INDEPENDENT SURVEY MEASUREMENTS (IF MADE)

Describe the type, location, and results of the measurements. Does any radiation level exceed regulatory limits? [10 CFR 20.1501(a), 10 CFR 20.1502(a)] $\int \int \partial dx$

13. NOTIFICATION AND REPORTS

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- a. Did any reportable incidents occur? Were the appropriate notifications made to the NRC Emergency Operations Center (301-816-5100)? Examples of incidents with notification requirements are as follows:
 - 1. Lost or stolen radioactive material (10 CFR 20.2201) N_O
 - 2. Overexposures or high radiation levels (10 CFR 20.2202) $\bigcirc O$
 - 3. Gauge is disabled or fails to function as designed [10 CFR 30.50(b)(2)] $\bigwedge \{ \mathcal{O} \}$
 - 4. Generic equipment issues identified by the licensee (10 CFR 21.21) $\int O$
- b. Were the required written reports made as followups to the events? M/A

14. POSTING AND LABELING

- a. Is NRC Form 3, "Notice to Employees," posted? (10 CFR 19.11)
- b. Are NRC regulations and license documents posted, or is a notice posted stating where these documents are located? (10 CFR 19.11, 10 CFR 21.6) \mathcal{YL} S
- c. Are any other posting and labeling requirements met? (10 CFR 20.1902, $\gamma e^{\frac{1}{2}}$ 10 CFR 20.1904)

15. DECOMMISSIONING

- a. Were any locations of use or separate buildings decommissioned since the last audit? Were appropriate notifications made or license amendments requested? (10 CFR 30.36)
- b. Are records kept of information important to decommissioning? [10 CFR 30.35(g)] ~ (A)
- c. Do records include all information outlined in 10 CFR 30.35(g)? MK

16. GENERIC COMMUNICATIONS AND NEWSLETTER

- a. Are NRC Regulatory Issue Summaries, NRC Information Notices, and Office of Nuclear Material Safety and Safeguards quarterly newsletters received?
- b. Is appropriate training and action taken in response to these?

17. SPECIAL LICENSE CONDITIONS OR ISSUES

Did the auditor review special license conditions or other issues (e.g., nonroutine maintenance)? (L/C) $\frac{1}{2}\ell\zeta$

18. EVALUATION OF OTHER FACTORS

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- a. Is senior licensee management appropriately involved with the radiation protection program and/or RSO oversight? $\gamma_{\ell S}$
- b. Does the RSO have sufficient time to perform his or her radiation safety duties? \mathcal{IES}
- c. Does the licensee have sufficient staff to support the radiation protection program? $\psi \varphi \zeta$

19. DEFICIENCIES IDENTIFIED IN AUDIT AND CORRECTIVE ACTIONS

- a. Summarize problems and/or deficiencies identified during the audit.
- b. If problems and/or deficiencies were identified in this audit, describe the corrective actions planned or taken. Are corrective actions planned or taken at *all* licensed locations (not just the location audited)? Include date(s) when corrective actions are implemented.
- c. Provide any other recommendations for improvement.
- d. Describe communication with management about deficiencies.

TRAINING COURSE CERTIFICATION

This is to certify that

Joseph Finelli

has completed annual refresher training in the proper transport of nuclear density gauges in accordance with CFR Title 49, Sections 170 - 189, as required by the U.S. Nuclear Regulatory Commission and the Agreement States.

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Semployee Signature

Êmployee Social Sec. #

Coastal Materials Jesting Employer Name

My signature certifies that I have received training regarding the safe operation and transport of nuclear density gauges and have read, reviewed, and understand the emergency procedures instituted by my employer.

Date of Training

5/19/18

Location of Training Materials

Ventown

TRAINING COURSE CERTIFICATION

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This is to certify that

has completed annual refresher training in the proper transport of nuclear density gauges in accordance with CFR Title 49, Sections 170 - 189, as required by the U.S. Nuclear Regulatory Commission and the Agreement States.

Employee Signature

Êmployee Social Sec. #

centel Martines Testa

Employer Name

My signature certifies that I have received training regarding the safe operation and transport of nuclear density gauges and have read, reviewed, and understand the emergency procedures instituted by my employer.

<u>S-1G-18</u> Date of Training

burran Location of Training Materials

TRAINING COURSE CERTIFICATION

This is to certify that

AWRENCE J. WISNIEWSKI

has completed annual refresher training in the proper transport of nuclear density gauges in accordance with CFR Title 49, Sections 170 - 189, as required by the U.S. Muclear Regulatory Commission and the Agreement States.

Employee Signature

OASTAL MANAGE TESTING Êmployee Social Sec. #

Employer. Name

My signature certifies that I have received training regarding the safe operation and transport of nuclear density gauges and have read, reviewed, and understand the emergency procedures instituted by my employer.

Date of Training

NEWTOWN, CT.

Location of Training Materials

Instructor Signature

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TRAINING COURSE CERTIFICATION

This is to certify that

WISNIEWSK

has completed annual refresher training in the proper transport of nuclear density gauges in accordance with CFR Title 49, Sections 170 - 189, as required by the U.S. Nuclear Regulatory Commission and the Agreement States.

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Costal Myterials Te

Employee Signature

Êmployee Social Sec. #

Employer Name

My signature certifies that I have received training regarding the safe operation and transport of nuclear density gauges and have read, reviewed, and understand the emergency procedures instituted by my employer.

Date of Training

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Location of Training Materials

Instructor Signature

TRAINING COURSE CERTIFICATION

This is to certify that

has completed annual refresher training in the proper transport of nuclear density gauges in accordance with CFR Title 49, Sections 170 - 189, as required by the U.S. Nuclear Regulatory Commission and the Agreement States.

Anthony Grant

Employee Signature

Employee Social Sec. 4

astal Makerals Testing Employer. Name

My signature certifies that I have received training regarding the safe operation and transport of nuclear density gauges and have read, reviewed, and understand the emergency procedures instituted by my employer.

19 -18 Date of Training

Jewtown Location of Training Materials

TRAINING COURSE CERTIFICATION

This is to certify that

SHEHZAD AHMAD

has completed annual refresher training in the proper transport of nuclear density gauges in accordance with CFR Title 49, Sections 170 - 189, as required by the U.S. Nuclear Regulatory Commission and the Agreement States.

Employee Signature

Émployee Social Sec. #

Employer Name

Coastal Materials Testing Lab. 21

My signature certifies that I have received training regarding the safe operation and transport of nuclear density gauges and have read, reviewed, and understand the emergency procedures instituted by my employer.

05/19/2018 NewTown CT

Date of Training

Location of Training Materials

OC RESOURCE

TRAINING COURSE CERTIFICATION

This is to certify that

EDWARD R. GARRISON

has completed annual refresher training in the proper transport of nuclear density gauges in accordance with CFR Title 49, Sections 170 - 189, as required by the U.S. Nuclear Regulatory Commission and the Agreement States.

EK QUAIS

Employee Signature

Employee Social Sec. #

Employer Name

Coastal Materials

My signature certifies that I have received training regarding the safe operation and transport of nuclear density gauges and have read, reviewed, and understand the emergency procedures instituted by my employer.

1912018 Date of Training

Location of Training Materials

Newton CT.

APNGA Portable Nuclear Gauge Safety & U.S. D.O.T. Hazmat Certification Class

Certificate of Completion to:

Araceli Javier

HAZMAT refresher training is required within 3 years after today's date:

April 10, 2018

This course covers training criteria of NUREG 1556. The Agreement States. and 49 CFR 172, Subpart H.

The Company RSO completes the training requirements by familiarizing the employee with:

- State specific regulations including introduction to the state regulatory website
- The company radiation safety program, specifically gauge safety operating and emergency procedures
- A tour of storage area with emphasis on security. documents and postings
- Loading, security and transporting gauges in company vehicles
- · Hands-on training with the gauge and methods in use by the company
- Introduction to gauge safety content on gauge manufacturer website
- Certificate covers both Gauge Safety and USDOT HAZMAT requirements

The acknowledgement and signature of the RSO/Official makes the training and certificate relevant and valid.

Materials Signature of RSO Company Name

American Portable Nuclear Gauge Association P.O. Box 423, Emmitsburg, MD 21727 . www.apnga.com

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rector of APNGA

George E. Marshall - Director 240-888-6426