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		May 08, 2009 0600012	ID INN	REO
Mr.	Craig Gordon	1.	12	EIO
Unite 475 <i>A</i>	ed States Nuclear Regulatory Commission - Region Allendale Road	I	am 10:	N 1
King	g of Prussia, Pennsylvania 19406-1415		50	
Re:	Response to Your Letter dated April 9, 2009 Docket No. 03036397 NYC Inspection Report No. 03036397/2009001	29-30837-01		. *

Dear Mr. Gordon:

YU and Associates, Inc. (YU) has prepared this letter in response to your April 9, 2009 letter (received April 16, 2009) regarding a Notice of Violation following your March 27, 2009 safety inspection at our offices. Your letter required us to respond to the following items:

- A. Contrary to the requirement of 10CFR 20.1101©, we had not provided evidence of a periodic (at least annual) review of the safety program Content and implementation since 2006.
- B. Contrary to Condition 20 of NYR License No. 29-30387-01 requiring that we, the licensee, conduct our program in accordance with statements, representation, and procedures contained in the application dated August 6, 2003 we had not provided evidence of implementing or maintaining Operating and Emergency Procedures. More specifically, the emergency procedures did not have current licensee contact information (names, phone numbers) of individuals to be notified in the event of an emergency.

Our respective responses are as follows:

- A. In order to correct this violation, our office completed an audit in May 2009 and shall henceforth conduct and maintain annual records as required by our license. A copy is attached.
- B. In order to correct this violation, we have updated our Operating and Emergency Procedures and will distribute same to each authorized user. A copy is attached.



NMSS/RGNI MATERIALS-004 hird Floor • Elmwood Park, NJ 07407 • (201) 791-0075 • Fax: (201) 791-4533 www.yu-associates.com Your original letter has been posted as required. Please note that Radiation Safety Officer (RSO) responsibilities which were in transition at the time of your inspection have been concluded. Mr. Reynante Clavel is our current RSO. A copy of our License Amendment also is attached for your information.

YU & Associates, Inc. is committed to the proper handling of the Troxler gauge, and appreciates your attention to this matter. We have attached a copy of your April 9, 2009 letter to complete this correspondence. We hope this response proves satisfactory to the Nuclear Regulatory Commission. If you have any questions or comments, please contact us.

Very Truly Yours,

& ASSOCIATES, INC. Drew Mazujian, P (former RSO) Project Manager

Reynante Clavel (current RSO) Senior Staff Engineer

DM/RC:dm Attachments:

1. 2009 Audit

- 2. Operating Emergency Procedures
- 3. License Amendment
- 4. April 9, 2009 Letter from NRC to YU & Associates, Inc.

## APPENDIX I PORTABLE GAUGE AUDIT CHECKLIST

#### NOTE

Information in this **checklist** provided by the U.S. Nuclear Regulatory Commission (NRC).

#### NOTE

All areas indicated in andit notes may not be applicable to every license and may not need to be addressed during each audit.

	Licensee's name Yu & Associates, Inc. License No. 29-30837-01
	Auditor Reynante Clavel Date of Audit 4-3-2009 Telephone No. 201.755-9559
	1 Ray Q
C	(Signature)

#### **1. AUDIT HISTORY**

- March 1, 2006 a. Last **audit** of this location conducted on (date)
- b. Were previous audits conducted yearly? [10 CFR 20.1101] No. Corrective action taken
- Troxler Information Main c. Were records of previous audits maintained? [10 CFR 20.2102] Yes.
- Book Tab 8 d. Were any deficiencies identified during last two audits or two years, whichever is longer?
- Were corrective actions taken? (Look for repeated deficiencies). 1) Annual refresher overdue at most 2 months (corrective action 3/2006) 2) Log not completed for sliding block check (remedied log to include 2/17/2006)

#### 2. ORGANIZATION AND SCOPE OF PROGRAM

- a. If the mailing address or places of use changed, was the license amended? Yes. Amended license
- b. If ownership changed or bankruptcy filed, was NRC prior consent obtained or was NRC notified? Not Applicable. (Docket #
- c. If the RSO was changed, was license amended? Does new RSO meet NRC training requirements? RSO changed from Prew Mazujian 4 Reynante Clavel on 3/26/2009, License Amended 3/26/2009. RSO (new) meets NRC training requirements.
   d. If the designated contact person for NRC changed, was NRC notified? Yes, on Feb. 25, 2009; letter was sent w/ all certuficates
   e. Does the license authorize all of the NRC-regulated radionuclides contained in gauges
- possessed? Yes, both Cesium 137 and Americum 241: Beryllium.
- Are the gauges as described in the Sealed **Some** and Device (SSD) Registration → f. Certificate or Sheet? Have copies of (or access to) SSD Certificates? Have manufacturers' manuals for operation and maintenance? [10 CFR 32.210] Yes for all items.
  - Are the actual uses of gauges consistent with the authorized uses listed on the license? g.
  - Yes! Is RSO fulfilling his/her duties? h.

es **Troxler** Licensing Guide

#### 3. TRAINING AND INSTRUCTIONS TO WORKERS

- a. Were all workers who are likely to exceed 100 mrem/yr instructed per [10 CFR 19.12]? Refresher training provided, as needed [10 CFR 19.12]? Not Applicable . No operators are likely to exceed 100 mrem/yr b. Did each gauge operator attend an approved course prior to using gauges? Yes.
- c. Are training records maintained for each gauge operator? Yes.
- d. Did interviews with operators reveal that they know the emergency procedures? Yes.
- e. Did this audit include observations of operators using the gauge in a field situation? Yes.
- **f. Operating** gauge? Performing routine cleaning and lubrication? **Transporting** gauge? Storing gauge?  $\forall c S$ .
- g. Did the operator demonstrate safe handling and security **during** transportation, use, and storage? Yes.
- . / h. HAZMAT training provided as required? [49 CFR 172.700, 49 CFR 172.701, CFR 172.702, 49 CFR 172.703, 49 CFR 172.704] Yes

#### 4. RADIATION SURVEY INSTRUMENTS

- a. If the licensee possesses its own survey meter, does it meet the criteria of the NRC? Yes,
- b. If the **licensee** does not **possess** a survey meter, are specific plans **made** to have one available? NA
- c. Is the survey meter needed for **non-routine maintenance** calibrated as required **[10 CFR**] 20.15017? Yes -
- d. Are calibration records maintained [10 CFR 20.2103(a)]? Yes.

#### 5. GAUGE INVENTORY

- a. Is a record kept showing the receipt of each gauge? [10 CFR 30.51(a)(1)] Yes.
- **b.** Are all gauges received **physically** inventoried every **six** months? **Yes**
- c. Are records of inventory results with appropriate information maintained?

#### 6. PERSONNEL RADIATION PROTECTION

- a. Are ALARA considerations incorporated into the radiation protection program? [10 CFR 20.1101(b)] Yes.
- b. Is documentation kept showing that **unmonitored** users receive <10% of Limit? Yes.
- c. Did unmonitored users' activities change during the year, which could put them over **10%** of limit? **No.**
- d. If yes to c. above, was a new evaluation performed? N(A .



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- e. Is external dosimetry required (user receiving >10% of limit)? In addition, is dosimetry provided to users? Yes.
  - 1. Is the dosimetry supplier NVLAP approved? [10 CFR 20.1501(c)] Yes.
  - 2. Are the dosimeters exchanged **monthly for** film **badges** and at **industry** recommended frequency for *TLDs*? Yes.
  - 3. Are dosimetry reports reviewed by the RSO when they are received? Yes.
  - 4. Are the records *NRC* Forms or equivalent? [10 CFR 20.2104(d), 10 CFR 20.2106(c)] **Ves**.
    - ◆ NRC-4 "Cumulative Occupational Exposure History" completed? Yes.
    - ◆ NRC-5 ''Occupational Exposure Record for a Monitoring Period'' completed? Ye 3 •
  - 5. If a worker declared her pregnancy, did licensee comply with [10 CFR 20.1208[? N/A.
    - ◆ Were records kept of embryo/fetus dose per 10 CFR 20.2106(e)? NA.
- f. Are records of **exposures**, **surveys**, monitoring, and evaluations maintained [10 CFR 20.2102, 10 CFR 20.2103, 10 CFR 20.2106] Yes

#### 7. PUBLIC DOSE

- a. Are gauges stored in a manner to keep doses below 100 mrem in a year? [10 CFR 20.1301(a)(1)] Yes= (37.5 mrem/year >
- 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 surrounding areas that would necessitate a new survey or evaluation? No.
- c. Do unrestricted area radiation levels exceed 2 mrem in any one hour? [10 CFR 20.1301(a)(2)] Yes. (1.2 mrem)
- d. Are gauges being stored in a manner that would prevent unauthorized use or removal? [10 CFR 20.1801] Yes. (Gauge hande lock, Container lock, Locker lock, Room lock,
- e. Records maintained? [10 CFR 20.2103, 10 CFR 20.2107] Basement door lock, Building Ly Yes. entrance door lock

#### 8. OPERATING AND EMERGENCY PROCEDURES

- a. Have operating and emergency procedures been developed? Yes.
- b. Do they contain the required elements? Yes.
- c. Does each operator have a current copy (telephone numbers) of the operating and emergency procedures? Yes.
- d. Does each operator have a current copy (telephone numbers) of the operating and emergency procedures? V2.5.

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#### 9. LEAK TESTS

- a. West each sealed source leak tested every 6 months or at other prescribed intervals? Yes.
- b. Was the leak test performed as described in correspondence with NRC and according to the license?
- c. Are records of results retained with the appropriate **information** included? Yes
- d. Were any sources found leaking and if yes, was NRC notified? No leaks were found since

#### **10. MAINTENANCE OF GAUGES**

- a. Are manufacturer's **procedures** followed for routine cleaning and lubrication of gauge?
- b. Does the source or source rod remain attached to the gauge during cleaning? Yes.
- c. Is non-routine 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 10 CFR 20.1301 limits)? Yes to all items.

#### **11. TRANSPORTATION**

a. DOT-7A or other authorized packages used? [49 CFR 173.415, 49 CFR 173.416(b)] Yes (on box)

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TROXLER

- b. Package performance test records on file? Yes (inside box)
- c. Special form sources documentation?[49 CFR 173.476(a)] Yes (inside box)
- d. Package has 2 labels (ex. Yellow-II) with TI, Nuclide, Activity, and Hazard Class? [49 CFR 172.403, 49 CFR 173.441] (cs (on box)
- e. Package properly marked? [49 CFR 172.301, 49 CFR 172.304, 49 CFR 172.310, 49 CFR 172.324] Yes (on box)
- f. Package closed and sealed during transport? [49 CFR 173.475(f)] Yes
- g. Shippiug papers prepared and used? [49 CFR 172.200(a)]
- h. Shipping papers contain proper entries? {Shipping name, Hazard Class, Identification Number (UN Number), Total Quantity, Package Type, Nuclide, RQ, Radioactive
   Material, Physical and Chemical Form, Activity, category of label, TI, Shipper's Name, Certification and Signature, Emergency Response Phone Number, 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] Yes Lo all items
- i. Shipping papers within drivers reach and readily accessible during transport?[49 CFR 177.817(e)] \CFR
- j. Secured against movement? [49 CFR 177. 834] Yes.
- k. Placarded on vehicle, if needed? [49 CFR 172.504] Yes
- 1. Proper overpacks, if used? [49 CFR 173.25] Yes.
- m. Any incidents reported to DOT? [49 CFR 171.15, 16] No. No incidents as of 4-3-2009

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#### 12. AUDITOR'S INDEPENDENT SURVEY MEASUREMENTS (IF MADE) - No Independent

a. Describe the type, location, and results of measurements. Do any radiation level exceed regulatory limits?

#### **13. NOTIFICATION AND REPORTS**

- a. Wes any radioactive material lost or stolen? Were reports made? [10 CFR 20.2201, 10 CFR 30.501 No.
- b. Did any reportable incidents occur? Were reports made? [10 CFR 20.2202, 10 CFR 30.507 No.
- c. Did any overexposures and high radiation levels occur? Reported? [10 CFR 20.2203.10] CFR 30.501
- d. If any events (as described in items a through c above) did occur, what was root cause? Were corrective actions appropriate? N/A.
- e. Is the licensee aware or telephone number for NRC Emergency Operations Center? [(301) 816-5100 Yes. (609) 984-5462 (Business hous) CNJDEP Radiation (877) 927-6337 (Off-hours/holidays) J Incident Hotlines USNRC Emergency #: (301) - 816-5100

#### 14. RECORD KEEPING FOR DECOMMISSIONING

- a. Records kept of information important to decommissioning? [10 CFR 30.35(g)]
- Yes. b. Records include all information outlined /10 CFR 30.35(g)]

#### 15. BULLETINS AND INFORMATION NOTICES

- a. NRC Bulletins, NRC Information Notices, NMSS Newsletters. received? Yes
- b. Appropriate training and action taken in response? Yes.

#### **16. SPECIAL LICENSE CONDITIONS OR ISSUES**

a. Did auditor review special license conditions or other issues (e.g., non-routine maintenance)? Yes,

#### **17. DEFICIENCIES IDENTIFIED IN AUDIT; CORRECTIVE ACTIONS**

- a. Summarize problems/deficiencies identified during audit.
- b. If **problems/deficiencies** identified in this audit, describe corrective actions planned or taken. Are corrective actions planned or taken at ALL licensed locations (not just location audited)?
- c. Provide any other recommendations for improvement.
- Two deficiencies were identified during this audit:
  - 1) No evidence of periodic (at least annual) review of safety program Resolution: Audit performed on 4-3-2009.

#### **Troxler Licensing Guide**

I-52) No evidence of implementing or maintaining Operating and Emergency Procedures; more specifically, emergency numbers/contact information not updated.

Resolution: Operating and Emergency Procedures Manual updated (2009) including current RSO (Reynante Clavel), current

#### **18. EVALUATION OF OTHER FACTORS**

- a. Senior licensee management is appropriately involved with the radiation protection program and/or Radiation Safety Officer (*RSO*) oversight?
- b. RSO has sufficient time to perform his/her radiation safety duties?  $\gamma es$ .
- c. Licensee has sufficientstaff to support the radiation protection program?  $\forall e$  .



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# YU & Associates, Inc. OPERATING AND EMERGENCY PROCEDURES MANUAL

200 Riverfront Boulevard, 2<sup>nd</sup> Floor, Elmwood Park, NJ 07407 • (201) 791-0075 • Fax: (201) 791-4533

#### **Introduction**

This manual describes the operational safety procedures to be followed when using Nuclear Density Gauges. This manual must be used in conjunction with the Troxler Operator's Manual and Troxler Transportation Guide, the New Jersey Administrative Code (NJAC 7:28), and current U.S. Nuclear Regulatory Commission (NRC) publication for Portable Gauges (NUREG-1556).

#### **Gauge Description**

Troxler Moisture-Density Gauge:<br/>Model No. 3430, Serial No. 34640Radiological Specification:<br/>Gamma Source: Cesium-137 =  $0.3 \pm 10\%$  GBq ( $8 \pm 10\%$  mCi)<br/>Neutron Source: Americium-241:Beryllium =  $1.48 \pm 10\%$  GBq ( $40 \pm 10\%$  mCi)<br/>Sealed Source Special Form<br/>Source Housing: Stainless Steel<br/>Shielding: Tungsten, Lead, and CadmiumMechanical Specification:<br/>Gauge Size (w/o handle) =  $4.45 \times 8.85 \times 6.45$  inches<br/>Rod = 23.25 inches for 12-inch rod<br/>Transportation Case =  $29.5 \times 14.0 \times 17.0$  inches<br/>Weight = 29 lbs

#### **Storage Facility**

#### A. Permanent Location:

- 1. The building (located at 611 River Drive, Elmwood Park, NJ 07407) is rigidly constructed with adequate fire safety equipment and located in a commercially zoned area.
- 2. The gauge is stored in a separate room in the basement level of the building. The storage cabinet is located in a remote area where only occasional personnel use is anticipated. The area is kept locked and secured at all times with keys available only to licensed operators. In addition, the gauge's source rod is kept locked when not in use.
- 3. The room and the cabinet both are posted with appropriate radiation warning signs.
- 4. The building is locked and secured during non-working hours. Security guards make occasional rounds around the and inside the building.
- 5. The facility meets with the approval of the Radiation Safety Officer (RSO).
- 6. The Building Manager has the name, address, and phone number of the RSO and his designated alternate who can be contacted in case of emergency.
- 7. The facility is periodically inspected for compliance to the abovementioned requirements.



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- B. Temporary Location (if storing the gauge at jobsite):
  - 1. The building shall be rigidly constructed, with adequate fire safety equipment and located in a commercially-zoned area.
  - 2. The gauge will be stored in a separate room, if possible. If this is not possible, the storage cabinet will be located in a remote area where only occasional personnel use is anticipate. In either case, the area will be kept locked and secured at all times with keys available only to licensed operators. In addition, the gauge's source rod is kept locked when not in use.
  - 3. The room cabinet both will be posted with appropriate radiation warning signs.
  - 4. The building will be locked and secured during non-working hours. If available, security guards will make rounds to check on above.
  - 5. The facility will be inspected by and meet with the approval of the RSO.
  - 6. The building superintendent will be given the name, address and phone number of the RSO and his designated alternate who can be contacted in case of emergency.
  - 7. The facility shall always be subject to inspection for compliance to abovementioned requirements.
- C. Storage in Vehicle:
  - 1. If the gauge is going to be stored overnight in vehicle, the following conditions must be met:
    - a. Prior to approval by the RSO will be necessary.
    - b. Vehicle must be locked and display the appropriate radiation warning signs.
    - c. Vehicle must be kept at same location as where certified operator is staying. In addition, the vehicle must be parked in a well-lighted area for security reasons.
    - d. At no time shall the gauge be taken inside a private residence or a motel room overnight.
  - 2. If an accident occurs while driving the vehicle, follow conditions under Emergency Procedures.

#### **Operator's Qualifications**

To become a certified operator, the individual must have satisfactorily completed the operator's course given by the manufacturer for the gauge he will be using. The manufacturer will train operators on the following topics:

- A. Nature of sources
- B. Operation of equipment
- C. Safety procedures for normal operation
- D. Emergency procedures
- E. Packaging and shipping of radiation

#### In addition, the RSO will train operators on the following:

- A. Radiation exposure factors
- B. Occupational dose limits
- C. Radiation monitoring
- D. Film badge usage
- E. Reporting malfunctions or

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#### **Exposure Monitoring Procedures**

Each certified operator is provided with a monitoring film badge which is to be submitted to Troxler Electronic Laboratories, Inc. located at 3008 Cornwallis Road P.O. Box 12057 Research Triangle Park, NC 27709. Results of gamma and neutron dosage testing should be reviewed and filed each month.

A record of exposure information is maintained and monitored by the RSO. Under average conditions, at a distance of 2 ft. (0.6 m) from gauge a full-time operator working a 40 hour week can expect to receive about 20 MREM's per week (gamma and neutron) or 260 MREM's (gamma and neutron) per 13 weeks for his whole body. This dose is well within the limits prescribed in NUREG-1556.

The dose to general public is zero due to the following:

- 1. Only certified operators wearing film badge are allowed where gauge is stored.
- 2. Under field conditions no one except gauge operator is allowed within 15 feet of gauge

#### **Operating Procedures**

The following list itemizes the standard operating procedure:

- 1. Operator(s) are required to wear a film badge when using or transporting gauge.
- 2. The operator must log in and log out the gauge at all times. Information such as name, project location, condition of gauge, calibration counts, etc. should be documented.
- 3. Keep the source in the "safe" or stored position when not in use (this includes from one test location to another).
- 4. While exposure dose levels are well within limits for radiation worker, never expose yourself to the bare source without sufficient justification for the additional dose.
- 5. Keep all unauthorized persons out of operating area. The suggested distance 15 feet.
- 6. Maintain security of the instrument at all times. The source lock shall be in place any time the gauge is not in use. The operator must always have visual contact of the gauge and never be more than 15 feet away from the gauge.
- 7. The gauge shall be kept in carrying case (shipping case DOT 7A, Type A, Yellow 11 Transport Index) with source rod locked while in transit. It must be transported only by a certified operator in an approved vehicle. The gauge must be strapped to the vehicle.
- 8. The gauge while being transported in a vehicle shall be located in an area as far away from any person(s) as possible (trunk of sedan, back of station or suburban).
- 9. The vehicle, transporting the gauge, must be kept locked when unoccupied
- 10. If an accident occurs with vehicle while transporting gauge, follow conditions under Emergency Procedures.

#### **Equipment And Licensing Information**

All items listed below are to be kept with the gauge at all times:

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- 1. Utilization Log Book and Operating and Emergency Procedures Manual information should be recorded is as follows:
  - a. Important phone numbers in the event of malfunction or accident
  - b. Model and serial number of the Density Gauge
  - c. Date and time of day gauge is removed from and returned to storage
  - d. Name of operator and immediate supervisor
  - e. Destination of Gauge
  - f. Signature of operator
  - g. Standard counts of gauge
- 2. A folder containing information listed below must be readily accessible to the operator when using and transporting gauges:
  - a. Current Bill of Lading
  - b. YU & Associates, Inc Operating and Emergency Procedures Manual
  - c. Copy of materials license issued by the NRC with amendments
  - d. Personal identification
  - e. Copy of NUREG-1556 or NJAC 7:28
  - f. Notices of radioactive materials
  - g. Troxler Operation and Instruction Manual
- 3. Dosimeter Badge
- 4. Ropes, stakes, tie wires, and yellow police tape

#### **Inventory Control**

A record is kept by the RSO showing where gauges are located at all times. Every 6 months, a thorough inventory is done (this coincides with leak testing schedule) to check gauges for usage and operating condition. A leak test is administered and monitored by the RSO on a 6 month basis. The testing is done using an approved kit supplied by Troxler Electronics Laboratories. A test paper supplied with the kit shall be coated with soap solution prior to swiping the radioactive sources in the gauge. The test paper is then placed in plastic envelopes on which the following information is recorded:

- 1. Company name
- 2. Address
- 3. Gauge Model.
- 4. Gauge Serial No.
- 5. Source Serial No.
- 6. Date of test

The plastic envelope is placed in a slipping envelope along with leak test analysis form which also contains the above information which is then shipped to Troxler Electronic Laboratories, Inc. for analysis.



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#### **Emergency Procedures**

- I. If an emergency occurs involving a loss of a theft of a nuclear device, the operator should follow the procedures specified in Item II (C) below.
- II. If an emergency occurs that involves physical damage to the gauge at the job site or while in transit, or the building or vehicle where the gauge is stored is subjected to fire or explosion, the operator shall follow the procedures specified in Items A through D below.
  - A. SECURE THE AREA AROUND THE ACCIDENT. KEEP UNAUTHORIZED PERSONS AWAY. ALERT PEOPLE IN THE VICINITY OF THE PRESENCE OF RADIOACTIVITY AND POSSIBLE ASSOCIATED HAZARDS.
  - B. DO NOT LEAVE THE SITE. DO NOT TOUCH OR MOVE THE GAUGE. GATHER ALL PERTINENT INFORMATION SUCH AS THE ADDRESS/LOCATION OF THE SITE, DESCRIPTION OF RADIATION INCIDENT, CONDITION/LOCATION OF THE GAUGE AND SOURCE MATERIAL, ETC. ADDITIONAL STEPS CAN BE FOUND IN THE ATTACHED TROXLER MANUAL OF OPERATION AND INSTRUCTION, APPENDIX A-12.
  - C. IMMEDIATELY CALL:

Radiation Safety Officer:	Reynante (	Lavel	
Work #: (201) 791-00	75 ext. 135 H	ome #: <u>(201) - 7</u>	55 - 9559
Local Police Contact Inform	nation:		
Local Fire Department Cont	act Information		
Zoour rife Department Cont		·	

- D. NOTIFY THE RADIATION SAFETY OFFICER (RSO) IMMEDIATELY. The RSO must in turn immediately notify:
  - New Jersey Department of Environmental Protection
     Emergency # (Business Hours): (609) 984-5462

Emergency # (Off-hours and Holidays): (877) 927-6337

- iii. <u>United States Nuclear Regulatory Commission</u>Emergency #: (301) 816-5100
- ii. <u>New Jersey State Police</u> Emergency #: (609) 882-2000

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Notes		
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## **APPENDIX A-12**

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#### EMERGENCY PROCEDURES

If the nuclear gauge is lost or stolen, then immediately notify the gauge owner's Radiation Safety Officer (RSO).

The gauge owner should complete the emergency contact information on the lines furnished below. (Note that *company* refers to the gauge owner's company, not Troxler Electronic Laboratories.) This information should be readily available to the gauge operator at all times.

The company RSO is <u>Reynante</u> CLavel Call the RSO at 201-755-9559
The regulatory agency is <b>NJDEP</b> Call the agency at <b>(609) 984-5462</b>

If a gauge is damaged, then follow the steps below:

- $\checkmark$  Locate the gauge and/or source.
- $\checkmark$  Do not touch or move the gauge.
- ✓ Immediately cordon off an area around the nuclear gauge and/or source. A radius of fifteen feet (5 m) will be sufficient. Do not leave the area unattended.
- $\checkmark$  Keep all unauthorized personnel from the nuclear gauge.
- ✓ If a vehicle is involved, it must be stopped until the extent of contamination, if any, can be established.
- ✓ The gauge operator should perform a visual inspection of the nuclear gauge to determine if the source housing and/or shielding has been damaged.
- ✓ Use a survey meter to measure the dose rate at a distance of three feet (1 m) from the gauge.



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- ✓ Contact the company RSO (name and number given at the beginning of this section). Provide the RSO with the following:
  - The date, time, and location of the accident
  - The gauge model and serial number
  - The nature of the accident
  - The location and condition of the gauge and/or source
  - The dose rate at three feet (1 m) from the gauge.
- ✓ If you are unable to reach the RSO, then call your regulatory agency (name and number given at the beginning of this section).
- ✓ Follow the instructions of the RSO. The RSO should report the incident to the regulatory agency. The RSO may also be required to notify the U.S. DOT of accidents during transport.
- ✓ Before shipping a damaged gauge to Troxler, obtain an RGA (Returned Goods Authorization) number from the Troxler RSO as described in the *Returning the Gauge for Service* section of Appendix C.

Model 3430

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## **BILL OF LADING**

(For use only by employees traveling directly to and from job sites) (Keep on top of shipping papers when in transit)

SHIPPER:

YU & Associates, Inc. 200 Riverfront Boulevard, 2<sup>nd</sup> Floor Elmwood Park, New Jersey 07407

RQ, Radioactive material, Type A Package, Special Form, 7, UN3332

Cs-137 0.30 GBq (8.0 mCi) Am-241:Be 1.48 GBq (40.0 mCi)

Radioactive Yellow II Label, TI = 0.3

From: \_\_\_\_\_

\_\_\_\_\_

То: \_\_\_\_\_

Date: \_\_\_\_\_

\*\*\*\*\*\*\*\*\* EMERGENCY CONTACT: (201) 755-9559 \*\*\*\*\*\*\*

Shipper's Signature

Shipper's Name (Printe
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UNITED STATES NUCLEAR REGULATORY COMMISSION REGION I 475 ALLENDALE ROAD KING OF PRUSSIA, PENNSYLVANIA 19406-1415

March 26, 2009

Docket No. 03036397 Control No. 143473

License No.

29-30837-01

Reynante Clavel Senior Staff Engineer/Radiation Safety Officer Yu & Associates, Inc. 200 Riverfront Boulevard (2ndFloor) Elmwood Park, NJ 07407

SUBJECT: YU & ASSOCIATES, INC., LICENSE AMENDMENT, CONTROL NO. 143473

Dear Mr. Clavel:

This refers to your license amendment request. Enclosed with this letter is the amended license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5239, so that we can provide appropriate corrections and answers.

An environmental assessment for this action is not required, since this action is categorically excluded under 10 CFR 51.22(c)(14).

Current NRC regulations and guidance are included on the NRC's website at <u>www.nrc.gov</u>; select **Nuclear Materials; Medical, Academic, and Industrial Uses of Nuclear Material;** then **Regulations, Guidance, and Communications.** You may also obtain these documents by contacting the Government Printing Office (GPO) toll-free at 1-866-512-1800. The GPO is open from 7:00 a.m. to 6:30 p.m. EST, Monday through Friday (except Federal holidays).

Thank you for your cooperation.

Sincerely,

Jenny Johansen Health Physicist Materials Security and Industrial Branch Division of Nuclear Materials Safety

Enclosure: Amendment No. 2

NRC FORM 374	PAGE OF PAGES
U.S. NUCLEAR REGULA	TORY COMMISSION Amendment No. 02
MATERIALS I	
Pursuant to the Atomic Energy Act of 1954, as amended, the Energy F Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, made by the licensee, a license is hereby issued authorizing the licens special nuclear material designated below; to use such material for the such material to persons authorized to receive it in accordance with the contain the conditions specified in Section 183 of the Atomic Energy regulations, and orders of the Nuclear Regulatory Commission now o	and 70, and in reliance on statements and representations heretofore see to receive, acquire, possess, and transfer byproduct, source, and purpose(s) and at the place(s) designated below; to deliver or transfer e regulations of the applicable Part(s). This license shall be deemed to any Act of 1954, as amended, and is subject to all applicable rules
Licensee	In accordance with the letter dated
	February 25, 2009,
1. Yu & Associates, Inc.	3. License number 29-30837-01 is amended in
	its entirety to read as follows:
EARI	YEG,
2. 200 Riverfront Boulevard (2nd Floor)	4. Expiration date September 30, 2013
Elmwood Park, New Jersey 07407	5. Docket No. 030-36397
500-53 84	Reference No.
<ul> <li>Byproduct, source, and/or special nuclear material</li> <li>A. Cesium 137</li> <li>B. Americium 241</li> <li>Chemical and/or 102112)</li> <li>B. Americium 241</li> <li>Chemical and/or 102112)</li> <li>B. Sealed Source 102112)</li> <li>Chemical and/or 1021120</li> </ul>	possess at any one time under this license s (Troxler Dwg. A. 9 millicuries total. No single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State
9. Authorized use:	
A. and B. In Troxler Elexctronic Laboratories Model I measuring physical properties of materials	No. 3400 Series portable gauging devices for

NRC	FORM	374A		PAGE	2	OF	4	PAGES		
			License Number 29-30837-01							
		MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference N 030-36397	lumber						
			Amendment No.	02						
		· · · · · · · · · · · · · · · · · · ·	<u> </u>							
		CONDITIONS	\$							
10.	Park when mate If the conta is an Agre	ensed material may be used or stored at the licensee's k, New Jersey and may be used at temporary job site are the U.S. Nuclear Regulatory Commission maintain erial, including areas of exclusive Federal jurisdiction e jurisdiction status of a Federal facility within an Agre tact the Federal agency controlling the job site in ques in area of exclusive Federal jurisdiction. Authorization ement States not under exclusive Federal jurisdiction alatory agency.	es of the licensee a ns jurisdiction for re within Agreement eement State is un stion to determine n for use of radioac	anywhere regulating t States: nknown, t e whether ctive mate	e in th g the the line the p terials	he Uni use o icense propo s at io	ited S of lice ee sh osed j	States ensed nould job site		
11.	indiv	nsed material shall be used by, or under the supervis viduals who have received the training described in th	ne application date	⊖ /sical pre d=Augus	senc t 6, 2	;e of, 2003.				
12.	The	Radiation Safety Officer for this license is Reynante		ATRACT						
13.	A.	A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed six months or at the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32:210 or under equivalent regulations of an Agreement State.								
-	B.	In the absence of a certificate from a transferor indi intervals specified in the certificate of registration is Commission under 10 CFR 32.210 or under equiva the transfer, a sealed source received from another and the test results received.	ssued by the U.S. National sections of the section	Nuclear F f an Agre	Regu eeme	ulatory ent Sta	y ate. p	orior to		
	C.	Sealed sources need not be tested if they are in sto they are removed from storage for use or transferre within the required leak test interval, they shall be te shall be stored for a period of more than 10 years w contamination.	ed to another perso ested before use o	on and ha	ave r er. No	not be o seal	een te iled s	ested		
·	D.	The leak test shall be capable of detecting the prese radioactive material on the test sample. If the test r (185 becquerels) or more of removable contaminati Regulatory Commission in accordance with 10 CFR immediately from service and decontaminated, repa Commission regulations.	reveals the presen ion, a report shall t R 30.50(c)(2), and t	nce of 0.0 be filed w the sourc	005 m with tl ce sh	nicroc he U.: hall be	curie S. Nu e rem	uclear		

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1	MATERIALS LICENSE SUPPLEMENTARY SHEET									Docket or Reference Number 030-36397									
												Amenc	lment N	lo. 02					
	E.	Cor	nmissi	on or a	an Aq	reeme	perso ent St	ons si tate t	pecit to ne	rform	icens such	sed by	sample the U.S	6. Nuc	lear F	Regu	latory	- 	-14-
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14.	Sea or de	lled so etache	urces o d from	or sou Sourc	rce ro ce rod	ds coi ls <u>or</u> g	ntaini jauge	ing lio s by	icens the I	ed ma license	teria e, e	l shall kcept g	not be o	ifically	d or s auth	sourc orize	es rei d.	move	ed
15.										essed									
16.	Each portable nuclear gauge shall have a lock or outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container must be locked when in transport or storage for when not under the direct surveillance of an authorized user.																		
17.	Any cleaning, maintenance, or repair of the gauges that requires detaching the source or source rod from the gauge shall be performed only by the manufacturer or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.									es.									
18.	A. If the licensee uses unshielded sealed sources extended more than 3 feet below the surface, the licensee shall use surface casing that extends from the lowest depth to 12 inches above the surface and other appropriate procedures to reduce the probability of the source or probe becoming lodged below the surface. If it is not feasible to extend the casing 12 inches above the surface, the licensee shall implement procedures to ensure that the cased hole is free of obstruction before making measurements.																		
	В.	licens 10 Cl	see sha	all noti 50(b)(	ify the 2) and	U.S.	Nucle The I	ecov ear R licens	ver tn Regul Isee s	ie sea latory shall n	ed so Com ot ab	ource (	omes lo or probe n and s i the sea	e may	not b	e su	ccess	sful, t	he
19.	The li 10 CF	icense FR Pai	e is au t 71, "l	thorizo Packa	ed to a ging a	transp and Tr	oort lic ransp	censo ortat	ed m tion c	ateria of Rad	l in a oacti	ccorda ive Ma	ance wit terial."	h the	provi	sions	of		

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NRC	FORM 374A	PAGE 4 OF 4 PAGE
		License Number 29-30837-01
	MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or Reference Number 030-36397
		Amendment No. 02
20.	<ul> <li>including any enclosures, listed below. The shall govern unless the statements, represent and correspondence are more restrictive to the statement of the statement of</li></ul>	a ninis license, the licensee shall conduct its program in sectors, and procedures contained in the documents, be U.S. Nuclear Regulatory Commission's regulations and procedures in the licensee's application (ML032380212) (ML090720885) (ML090720885)



#### UNITED STATES NUCLEAR REGULATORY COMMISSION REGION I 475 ALLENDALE ROAD KING OF PRUSSIA, PENNSYLVANIA 19406-1415

April 9, 2009

Docket No. 03036397

License No.

29-30837-01

Drew Mazujian, P.E. Project Manager and RSO Yu & Associates, Inc. 200 Riverfront Boulevard (2nd Floor) Elmwood Park, NJ 07407

### SUBJECT: NRC INSPECTION REPORT NO. 03036397/2009001, YU & ASSOCIATES, INC., ELMWOOD PARK, NEW JERSEY SITE AND NOTICE OF VIOLATION

Dear Mr. Mazujian:

On March 27, 2009, Craig Gordon of this office conducted a safety inspection at the above address of activities authorized by the above listed NRC license. The inspection was an examination of your licensed activities as they relate to radiation safety and to compliance with the Commission's regulations and the license conditions. The inspection consisted of observations by the inspector, interviews with personnel, and a selective examination of representative records. The findings of the inspection were discussed with you at the conclusion of the inspection.

Based on the results of this inspection, it appears that your activities were not conducted in full compliance with NRC requirements. A Notice of Violation is enclosed that categorizes the violation by severity level. You are required to respond to this letter and should follow the instructions specified in the enclosed Notice when preparing your response. In your response, you should document the specific actions taken and any additional actions you plan to prevent recurrence. Your response may reference or include previous docketed correspondence, if the correspondence adequately addresses the required response. After reviewing your response to this Notice, including your proposed corrective actions and the results of future inspections, the NRC will determine whether further NRC enforcement action is necessary to ensure compliance with NRC regulatory requirements.

Current NRC regulations are included on the NRC's website at <u>www.nrc.gov</u>; select Nuclear Materials; Medical, Academic, and Industrial Uses of Nuclear Material; then Regulations, Guidance, and Communications Page. The current Enforcement Policy is included on the NRC's website at <u>www.nrc.gov</u>; select About NRC; How We Regulate; Enforcement; then Enforcement Policy. You may also obtain these documents by contacting the Government Printing Office (GPO) toll-free at 1-866-512-1800. The GPO is open from 7:00 a.m. to 6:30 p.m. EST, Monday through Friday (except Federal holidays).

RECEIVED AFK 18 109 **VU&ASSOCIATES** 

D. Mazujian

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Please contact me at (610) 337-5205, if you have any questions regarding this matter.

Sincerely,

Marie Miller

Marie Miller, Chief Security and Industrial Branch Division of Nuclear Materials Safety

Enclosure: Notice of Violation

cc: State of New Jersey

#### NOTICE OF VIOLATION

Yu & Associates, Inc. Elmwood Park, NJ

#### Docket No. 03036397 License No. 29-30837-01

During an NRC inspection conducted on March 27, 2009, two violations of NRC requirements were identified. In accordance with the NRC Enforcement Policy, the violations are listed below:

A. 10 CFR 20.1101(c) requires that the licensee periodically (at least annually) review the radiation safety program content and implementation.

Contrary to the above, as of March 27, 2009, the licensee had not reviewed the radiation protection program annually. Specifically, the licensee has not performed a periodic (at least annual) review of the radiation safety program content and implementation since 2006.

This is a Severity Level IV violation (Supplement IV).

B. Condition 20 of NRC License No. 29-30387-01 requires, in part, that the licensee conduct its program in accordance with statements, representation, and procedures contained in the application dated August 6, 2003.

Item 10 of Appendix B to the letter dated August 6, 2003, requires that the licensee implement and maintain the operating and emergency procedures in Appendix H of NUREG 1556, Vol. 1, Rev. 1, dated November 2001, and provide copies of these procedures to all gauge users at each job site.

Contrary to the above, as of March 27, 2009, the licensee had not implemented or maintained Operating and Emergency Procedures. Specifically, the emergency procedures did not have current licensee contact information (names, phone numbers) of individuals to be notified in the event of an emergency.

This is a Severity Level IV violation (Supplement VI).

Pursuant to the provisions of 10 CFR 2.201, Yu & Associates, Inc. is hereby required to submit a written statement or explanation to the U.S. Nuclear Regulatory Commission, ATTN: Document Control Desk, Washington D.C. 20555, with a copy to the Regional Administrator, Region I, within 30 days of the date of the letter transmitting this Notice of Violation (Notice). This reply should be clearly marked as a "Reply to a Notice of Violation" and should include for each violation: (1) the reason for the violation, or, if contested, the basis for disputing the violation, (2) the corrective steps that have been taken and the results achieved, (3) the corrective steps that will be taken to avoid further violations, and (4) the date when full compliance will be achieved. Your response may reference or include previous docketed correspondence, if the corrective adequately addresses the required response. If an adequate reply is not received within the time specified in this Notice, an order or a Demand for Information may be issued as to why the license should not be modified, suspended, or revoked, or why such other action as may be proper should not be taken. Where good cause is shown, consideration will be given to extending the response time.

Notice of Violation Yu & Associates, Inc.

If you contest this enforcement action, you should also provide a copy of your response to the Director, Office of Enforcement, United States Nuclear Regulatory Commission, Washington, DC 20555-0001. Under the authority of Section 182 of the Act, 42 U.S.C. 2232, any response which contests an enforcement action shall be submitted under oath or affirmation.

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Your response will be placed in the NRC Public Document Room (PDR) and on the NRC Web site. To the extent possible, it should, therefore, not include any personal privacy, proprietary, or safeguards information so that it can be made publically available without redaction. However, if you find it necessary to include such information, you should clearly indicate the specific information that you desire not to be placed in the PDR, and provide the legal basis to support your request for withholding the information from the public.

In accordance with 10 CFR 19.11, you may be required to post this Notice within two working days.

Dated This 09th day of April 2009