



FROEHLING & ROBERTSON, INC.
ENGINEERING • ENVIRONMENTAL • GEOTECHNICAL

December 15, 2008

United States
Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406

RECEIVED
REGION I
2008 DEC 16 PM 12:14

Attention: Kathy Modes, Health Physicist

Reference: Courtesy Report.
Incident No. 44573
License No. 45-08890-02

Gentlemen:

Enclosed are copies of the documents and other information requested during a recent telephone conversation. This information is in follow-up to our 30-day report on the recent incident in the Hampton Roads area.

Technician's original testing and current HAZMAT due dates.

| TECHNICIAN | EMPLOYEE NO. | DATE OF EMPLOYMENT | ORIGINAL TEST DATE | HAZMAT DUE |
|--------------------|--------------|--------------------|--------------------|------------|
| Anderson, Jason | 9806 | 12/26/2007 | 06/12/2008 | 06/12/2011 |
| Armenta, Dennis | 1993 | 01/21/2000 | 01/21/2002 | 11/14/2009 |
| Charles, Beth | 6067 | 01/31/2005 | 11/14/2006 | 11/14/2009 |
| Harvey, Joseph | 5787 | 09/28/3006 | 04/08/2007 | 02/08/2010 |
| Kilci, Oktay | 6215 | 10/16/2007 | 09/19/2006 | 11/19/2009 |
| Martel, Preston | 4310 | 12/07/1007 | 09/02/2004 | 11/18/2011 |
| McCormick, Patrick | 2638 | 02/11/2008 | 06/12/2008 | 96/12/2011 |
| Olsen, Dan | 3310 | 10/15/2007 | 05/10/2004 | 11/14/2009 |
| Ortiz, Jorge | 3874 | 08/27/2007 | 12/12/2008 | 12/12/2011 |
| Pascas, Troy | 3475 | 03/03/2008 | 06/12/2008 | 06/12/2011 |
| Ramus, Gerald | 9694 | 06/30/2004 | 10/19/2000 | 12/20/2010 |
| Redman, Kathleen | 5266 | 03/19/2007 | 04/03/2003 | 12/08/2011 |
| Richards, Clinton | 4804 | 11/28/2005 | 06/13/2006 | 11/14/2009 |
| Rueff, Warner | 6468 | 08/10/1987 | 11/19/1998 | 11/14/2009 |
| Street, Jordan | 5917 | 04/17/2008 | 06/12/2008 | 06/12/2011 |
| Yoho, Brett | 7357 | 08/06/2007 | 03/05/1998 | 12/12/2011 |

Also enclosed are the last two wipe test results for gauge 11878 and the annual reviews for calendar years 2006 and 2007.

Should you have any questions or require additional information, please contact us. As I had noted earlier, I will be out of the country until December 30, 2008. It may be possible to contact me via email during that period; but I am unsure as to the availability of connections. This has been a good exercise for the present RSO in Chesapeake; and I would anticipate that a higher degree of organization would be a direct result of his efforts.

Respectfully submitted,

FROEHLING & ROBERTSON, INC.



William W. Briody
Corporate RSO
Vice President

Copies: Radiation Safety Committee
 Chesapeake Manager
 File

Enclosures

InstroTek, Inc.
5908 Triangle Drive
Raleigh, NC 27617
(919)875-8371 Fax (919)875-8328

9/5/2008
Test Number: 3

GERALD RAMUS
FROEHLING & ROBERTSON-CHESAPEAKE
833 PROFESSIONAL PLACE W.
CHEASAPEAKE, VA 23320

Phone: (757)436-1111
Fax: (757)436-1674

LEAK TEST CERTIFICATE

NC Materials License #092-1073-1

This certifies that leak test analysis was conducted on the sample with the following information. The results shown below accurately represent the level of removable contamination.

Gauge Model: 3411 Gauge S/N: 11878 Test Date: 8/30/2008

| Source (Model/Serial#) | Reading in microCuries |
|------------------------|------------------------|
| 47-7120 | 0.00000 |
| 40-9434 | 0.00022 |

Note: 0.005 microCuries (185 Bq) or greater is considered a leaking source.° The source(s) tested above may remain in use.

Reviewed by: *D. Alby* Date: 9/05/08

RSO Signature: *Gerald Ramus* Date: 9/08/08

°CPN gauges are 50 mCi Am241:Be and 10 mCi Cs-137. Humboldt gauges are 40 mCi Am241:Be and 10 mCi Cs-137. InstroTek Gauge is 40 mCi Am241:Be and 10 mCi Cs-137. Troxler gauges all, except 4640, are 40 mCi Am241:Be and 8 mCi Cs-137. Troxler 4640 is 8 mCi Cs-137.

InstroTek, Inc.
5908 Triangle Drive
Raleigh, NC 27617
(919)875-8371 Fax (919)875-8328

9/5/2008
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This certifies that leak test analysis was conducted on the sample with the following information. The results shown below accurately represent the level of removable contamination.

Gauge Model: 3411 Gauge S/N: 11878 Test Date: 8/30/2008

| Source (Model/Serial#) | Reading in microCuries |
|------------------------|------------------------|
| 47-7120 | 0.00000 |
| 40-9434 | 0.00022 |

Note: 0.005 microCuries (185 Bq) or greater is considered a leaking source.° The source(s) tested above may remain in use.

Reviewed by: *[Signature]* Date: 9/05/08

RSO Signature: *Gerald Ramus* Date: 9/08/08

°CPN gauges are 50 mCi Am241:Be and 10 mCi Cs-137. Humboldt gauges are 40 mCi Am241:Be and 10 mCi Cs-137. InstroTek Gauge is 40 mCi Am241:Be and 10 mCi Cs-137. Troxler gauges all, except 4640, are 40 mCi Am241:Be and 8 mCi Cs-137. Troxler 4640 is 8 mCi Cs-137.

InstroTek, Inc.
5908 Triangle Drive
Raleigh, NC 27617
(919)875-8371 Fax (919)875-8328

12/2/2008
Test Number: 4

GERALD RAMUS
FROEHLING & ROBERTSON-CHEESAPEAKE
833 PROFESSIONAL PLACE W.
CHEESAPEAKE, VA 23320

Phone: (757)436-1111
Fax: (757)436-1674

LEAK TEST CERTIFICATE

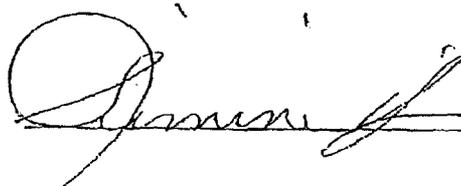
NC Materials License #092-1073-1

This certifies that leak test analysis was conducted on the sample with the following information. The results shown below accurately represent the level of removable contamination.

Gauge Model: 3411 Gauge S/N: 11878 Test Date: 10/22/2008

| Source (Model/Serial#) | Reading in microCuries |
|------------------------|------------------------|
| 47-7120 | 0.00000 |
| 40-9434 | 0.00029 |

Note: 0.005 microCuries (185 Bq) or greater is considered a leaking source.° The source(s) tested above may remain in use.

Reviewed by:  Date: 12/2/08

RSO Signature:  Date: 12-2-08

°CPN gauges are 50 mCi Am241:Be and 10 mCi Cs-137. Humboldt gauges are 40 mCi Am241:Be and 10 mCi Cs-137. InstroTek Gauge is 40 mCi Am241:Be and 10 mCi Cs-137. Troxler gauges all, except 4640, are 40 mCi Am241:Be and 8 mCi Cs-137. Troxler 4640 is 8 mCi Cs-137.



2007

ANNUAL RADIATION SAFETY PROGRAM REVIEW

BRANCH LOCATION Chesapeake VA LICENSE NUMBER 4508890-02

REVIEWED BY W Brady DATE 1/15/2008

1.0 AUDIT HISTORY

- 1.1 Date of last audit: 3/15/2007
- 1.2 Annual audits conducted and maintained? YES NO.
- 1.3 Were deficiencies previously noted? YES NO.

2.0 ORGANIZATION AND SCOPE OF RADIATION SAFETY PROGRAM

- 2.1 Have any license conditions changed? YES NO. *added 1mV offset*
- 2.2 Has RSO been changed? YES NO. *3500 gauge*
- 2.3 Is RSO fulfilling duties? YES NO. *unk*

3.0 TRAINING AND INSTRUCTIONS TO WORKERS

- 3.1 Have technicians been properly trained? YES NO.
- 3.2 Did training include field observations? YES NO.
- 3.3 Are training records on file? YES NO. *incomplete and/or*
- 3.4 Has card been issued by Corporate RSO? YES NO. *missing*
- 3.5 Are gauge operating manuals available? YES NO.

4.0 RADIATION SURVEY INSTRUMENTATION

- 4.1 Is survey meter currently calibrated? YES NO.
- 4.2 Is survey meter used for periodic surveys? YES NO. *unk*
- 4.3 Is meter used during maintenance? YES NO. *unk*

5.0 GAUGE INVENTORY

- 5.1 Are records of receipt on file? YES NO.
- 5.2 Gauges inventoried at least twice annually? YES NO.

6.0 PERSONNEL RADIATION PROTECTION

- 6.1 Technicians knowledgeable of ALARA? YES NO.
- 6.2 Badge submittals current and complete? YES NO.
- 6.3 Film badge records on file? YES NO.
- 6.4 Reports reviewed upon receipt? YES NO.
- 6.5 Any declared pregnancies this year? YES NO.
- 6.6 Film badge supplier NVLAP approved? YES NO.

7.0 RADIATION EXPOSURE TO GENERAL PUBLIC

- 7.1 Storage area: Near Lab
Storage area secure? YES NO.
Actual radiation exposure level (max.): 0.15 mR/hr.



- Distance to nearest work area 15 feet. ⁺₋
- Any changes in storage area and vicinity? YES NO.
- 7.2 Exposure to public (actual or potential):
- Special programs or records on file? YES NO.
- Restricted areas (2 mr/hr and over) present? YES NO.

8.0 OPERATING AND EMERGENCY PROCEDURES

- 8.1 Does each technician have copy? YES NO.
- 8.2 Did emergency situation occur this year? YES NO.

If so, describe in full:

9.0 TRANSPORTATION OF GAUGES

- 9.1 Transport Package
- Authorized DOT 7A Package used? YES NO.
- Performance tests on file? YES NO.
- Package properly marked?
- Yellow II labels each side? YES NO.
- DOT Label Affixed? YES NO.
- Cargo Aircraft Label (if applicable)? YES NO.
- Package closed/sealed during transport? YES NO.
- Handle locks in place? YES NO.
- 9.2 Proper transport papers completed. YES NO.
- 9.3 Gauge properly signed out and in? YES NO.
- 9.4 Case secured to vehicle? YES NO.
- 9.5 Case blocked to prevent movement? YES NO.

10.0 LEAK TESTS

- 10.1 Leak tests conducted at 6-month intervals? YES NO.
- 10.2 Are assay records on file? YES NO.

11.0 MAINTENANCE PROCEDURES

- 11.1 Manufacturer recommendations followed: YES NO.
- 11.2 Film badges worn during procedure? YES NO. *with*

12.0 POSTING AND LABELING

- 12.1 Is latest "Notice to Employees" posted? YES NO.
 - 12.2 Is the latest license posted or available? YES NO.
 - 12.3 Current, applicable regulations posted? YES NO.
 - 12.4 Current safety procedures posted? YES NO.
- } with RSO*

13.0 RECORDS AND CORRESPONDENCE

- 13.1 Correspondence and Memorandums:



- Regulatory agency correspondence on file? YES NO.
Corporate RSO correspondence on file? YES NO.
Records of appropriate actions on file? YES NO.
13.2 Records for decommissioning maintained? YES NO.
13.3 Records of incidents during year on file? YES NO *NA*
Records of actions taken on file? YES NO.

14.0 DEFICIENCIES IDENTIFIED IN AUDIT AND CORRECTIVE ACTIONS

14.1 Summarize any problems or deficiencies identified during this audit.

*Program needs more attention relative to
calibrations, leak tests, security, etc.
No tag needed - training records incomplete. (Why?)*

14.2 Describe corrective actions taken or planned. Note if corrective or preventative measures are to be implemented at other locations.

will work w/ RSO

14.3 Provide recommendations for improvement.

*All above
Schedule Request*

15.0 EVALUATION OF OTHER FACTORS

15.1 Is senior management appropriately involved with the Radiation Safety Program and the branch RSO? YES NO.

15.2 Does the branch RSO have sufficient time to perform radiation safety duties? YES NO. *unknown?*

16.0 COMMENTS

RSO not present during inspection.

Signature(s) of Reviewer(s):

[Signature] Date *1/15/2008*
Date _____

Use additional sheets as necessary.

ANNUAL RADIATION SAFETY PROGRAM REVIEW

MOISTURE/DENSITY GAUGES

LOCATION Chesapeake VA. LICENSE NUMBER 45-08890-02

REVIEWED BY W. Brady DATE 3/15/2007

1.0 AUDIT HISTORY

- 1.1 Date of last audit: 12/10/05
- 1.2 Annual audits conducted and maintained? YES NO.
- 1.3 Were deficiencies previously noted? YES NO.

2.0 ORGANIZATION AND SCOPE OF RADIATION SAFETY PROGRAM

- 2.1 Have any license conditions changed? YES NO.
- 2.2 Has RSO been changed? YES NO.
- 2.3 Is RSO fulfilling duties? YES NO.

3.0 TRAINING AND INSTRUCTIONS TO WORKERS

- 3.1 Have technicians been properly trained? YES NO.
- 3.2 Did training include field observations? YES NO.
- 3.3 Are training records on file? YES NO. *unorganized*
- 3.4 Has card been issued by Corporate RSO? YES NO.
- 3.5 Are gauge operating manuals available? YES NO.

4.0 RADIATION SURVEY INSTRUMENTATION

- 4.1 Is survey meter currently calibrated? YES NO.
- 4.2 Is survey meter used for periodic surveys? YES NO.
- 4.3 Is meter used during maintenance? YES NO. *unk.*

5.0 GAUGE INVENTORY

- 5.1 Are records of receipt on file? YES NO.
- 5.2 Gauges inventoried at least twice annually? YES NO.

6.0 PERSONNEL RADIATION PROTECTION

- 6.1 Technicians knowledgeable of ALARA? YES NO.
- 6.2 Badge submittals current and complete? YES NO.
- 6.3 Film badge records on file? YES NO.
- 6.4 Reports reviewed upon receipt? YES NO.
- 6.5 Any declared pregnancies this year? YES NO. *unk.*

6.6 Film badge supplier NVLAP approved? YES NO.

7.0 RADIATION EXPOSURE TO GENERAL PUBLIC

7.1 Storage area:
Storage area secure? YES NO.
Actual radiation exposure level (max.): 0.015 mR/hr.
Distance to nearest work area > 15 feet.
Any changes in storage area and vicinity? YES NO.
7.2 Exposure to public (actual or potential):
Special programs or records on file? YES NO.
Restricted areas (2 mr/hr and over) present? YES NO.

8.0 OPERATING AND EMERGENCY PROCEDURES

8.1 Does each technician have copy? YES NO. *Partial*
8.2 Did emergency situation occur this year? YES NO.
If so, describe in full:

9.0 TRANSPORTATION OF GAUGES

9.1 Transport Package
Authorized DOT 7A Package used? YES NO.
Performance tests on file? YES NO.
Package properly marked?
 Yellow II labels each side? YES NO.
 DOT Label Affixed? YES NO.
 Cargo Aircraft Label (if applicable)? YES NO.
Package closed/sealed during transport? YES NO.
Handle locks in place? YES NO.
9.2 Proper transport papers completed. YES NO.
9.3 Gauge properly signed out and in? YES NO.
9.4 Case secured to vehicle? YES NO.
9.5 Case blocked to prevent movement? YES NO.

10.0 LEAK TESTS

10.1 Leak tests conducted at 6-month intervals? YES NO. *Some lapses*
10.2 Are assay records on file? YES NO.

11.0 MAINTENANCE PROCEDURES

- 11.1 Manufacturer recommendations followed: YES NO.
- 11.2 Film badges worn during procedure? YES NO.

11.0 POSTING AND LABELING

- 11.1 Is latest "Notice to Employees" posted? YES NO.
- 11.2 Is the latest license posted or available? YES NO.
- 11.3 Current, applicable regulations posted? YES NO.
- 11.4 Current safety procedures posted? YES NO.

} W/ RSO

13.0 RECORDS AND CORRESPONDENCE

- 13.1 Correspondence and Memorandums:
 - Regulatory agency correspondence on file? YES NO.
 - Corporate RSO correspondence on file? YES NO.
 - Records of appropriate actions on file? YES NO.
- 13.2 Records for decommissioning maintained? YES NO.
- 13.3 Records of incidents during year on file? NA YES NO
- Records of actions taken on file? YES NO.

14.0 DEFICIENCIES IDENTIFIED IN AUDIT AND CORRECTIVE ACTIONS

14.1 Summarize any problems or deficiencies identified during this audit.

No significant problems. RSO position vacated since, resulting in loss of continuity.
Filing system confusing

14.2 Describe corrective actions taken or planned. Note if corrective or preventative measures are to be implemented at other locations.

More time at present RSO

14.3 Provide recommendations for improvement:

Need reminder board per year list of calibration



