

4310-C Technology Drive South Bend, IN 46628 574-233-6820 (FAX) 574-233-8242

June 29, 2010

Mr. Steven A. Reynolds, Director Division of Nuclear Materials Safety U.S. Nuclear Regulatory Commission, Region III 2443 Warrenville Road, Suite 210 Lisle, IL 60532-4352

Re: Response to Confirmatory Order IA-09-044 Quarterly Radiation Safety Activities -Report No. 3 First Quarter - 2010

Dear Mr. Reynolds:

As per a Confirmatory Order by the Nuclear Regulatory Commission (NRC), which was a result of an agreement reached during an Alternative Dispute Resolution mediation conducted at your facility August 25, 2009, I am submitting the third report of our documentation of radiation safety activities (RSA) performed by Earth Exploration, Inc. as required by the confirmatory order referenced above. Activity this past quarter included:

### **Dosimetry**

Submittal of dosimetry for our gauge operators by both office locations was made late March and early April, 2010, for the first quarter, or first wear period of 2010. Upon receipt of the dosimetry reports from Landauer, we noted no unusual results of radiation exposure to our employees. Also at the end of June, 2010, new dosimetry will be provided to the gauge operators for the third quarter of 2010.

### **Physical Inventory for Portable Gauges**

Physical inventories of gauges were performed at our Indianapolis and South Bend offices on June 14 and 15, 2010. Reports of these inventories are included with this correspondence.

### Portable Gauge Security

Earth Exploration, Inc. had been in process of determining ways to better improve the security of our portable gauges during transportation and in the field. We have recently purchased another tailored steel "job-box" to be put into use at our Indianapolis office. The hardware for the storage and transportation box will be bolted to a truck designated for the transport box, which we believe, will improve our gauge security efforts. In short, we are continuing to look at

ways to improve this part of our radiation safety program and the security and transportation of our portable gauges to and from jobsites.

## "Lesson Learned" Training to the Public

Over the course of the first quarter we had been in preparation for our "Lessons Learned" Training to the Public, for area portable gauge Nuclear Materials Licensee holders. On April 27, 2010, we extended invitations to six area firms, making sure to include the firms which we understood were those in possession of the greatest number of portable gauges, to attend a short seminar at our facility. On May 12, 2010, the seminar was conducted at our facility and attended by four of the six firms. Our presentation and the subsequent roundtable discussion lasted approximately 1½ hours. We believe this seminar and round-table discussion provided gains to all the firms involved and may relate to improvements of their individual radiation safety programs.

We trust this information provides adequate documentation of our previous quarter RSA. Should you have any questions or if you are in need of any additional information, please contact me at your convenience.

Sincerely,

## EARTH EXPLORATION, INC.

Christopher S. Loyd / Radiation Safety Officer

Attachments: Quarterly Radiation Safety Activity Checklist – Report No. 3 Quarterly Radiation Safety Activity Guideline Dosimetry Reports for Indianapolis Office – 1<sup>st</sup> Qtr. 2010 Dosimetry Reports for South Bend Office – 1<sup>st</sup> Qtr. 2010 Physical Inventory Reports for Indianapolis Office – June 2010 Physical Inventory Reports for South Bend Office – June 2010 Invitations to Portable Gauge Seminar (Lessons Learned) Portable Gauge Seminar Discussion Topics – May 12, 2010

FARTH EXPLORATION

# QUARTERLY RADIATION SAFETY ACTIVTIES REPORT NO. 3 - SECOND QUARTER – 2010 DATE: 6-29-2010

1

# Quarterly Radiation Safety Activities Report No.: 3 (2nd Qtr. 2010) Date: 6-29-10



Activity	Yes	No	Footnote
RSO Responsibilities			
All terms and conditions of the materials license are being adhered to.	x		
All gauges have been leak tested in accordance with the required time frames and documentation of such testing is made, recorded and filed in an orderly manner (bi-quarterly or annually).	x		
All gauge operators have been provided with, and have worn their personnel monitoring equipment (dosimeters) while operating or servicing the portable gauges and the dosimeters have been submitted to Landauer® on a quarterly basis for required testing.	x		1
Records of the gauge operators radiation exposure based on the test results provided by Landauer® have been posted and any exposure perceived as being in excess of typical exposure has been discussed and documented with the gauge operators.	x		
All gauges are properly secured and protected at all times, when not in use by the individual gauge operators.	x		
The RSO has reviewed the gauge operator's usage of equipment and has assured that any unsafe practices are stopped immediately and has developed, implemented or documented corrective actions when violations of the program have been identified.	x		
Gauge Operator Responsibilities			
The portable gauges have been inspected and adequately logged in and out of the designated storage area of our facilities each day they are used.	x		
The transportation documents are in order and the equipment is secured in the transporting vehicle as required by our radiation safety program and DOT requirements.	x		
The gauges have been maintained in their control at all times.	x		



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Activity	Yes	No	Footnote
Respective personnel monitoring devices have been worn at all times.	x		
The following have been in the possession of the gauge operators at all times when they are using the gauges in the field:			
Copy of the License	x		
Authorization card from RSO	x		
Copy of the Radiation Safety Plan	x		
Copy of the equipment operations manual	x		
Copy of current Leak Test Certificate	x		
Copy of Emergency Procedures	x		
Footnote No. 1 - Exposure level for Techs for First Quarter typical.	-		
			· · · · · · · · · · · · · · · · · · ·

# OUTLINE OF QUARTERLY RADIATION SAFETY ACTIVTIES SECOND QUARTER - 2010



7770 West New York Street Indianapolis, IN 46214-2988 317-273-1690 (FAX) 317-273-2250 4310-C Technology Drive South Bend, IN 46628 574-233-6820 (FAX) 574-233-8242

## Earth Exploration, Inc. Quarterly Radiation Safety Activities For 2010 and 2011

- A. The following shall serve as a guideline and checklist for radiation safety activities to be performed by the Radiation Safety Officer (RSO) and individual gauge operators on a quarterly basis throughout the time period noted above:
  - 1. The RSO shall assure that all terms and conditions of the materials license are being adhered to.
  - 2. The RSO shall verify that that the gauges have been leak tested in accordance with the required time frames and that documentation of such testing is made and recorded and filed in an orderly manner (bi-quarterly or annually).
  - 3. The RSO shall assure that gauge operators are provided with and wear their personnel monitoring equipment (dosimeters) while operating or servicing the portable gauges and that the dosimeters are submitted to Landauer® on a quarterly basis for required testing.
  - 4. The RSO shall post records of the gauge operators radiation exposure based on the test results provided by Landauer®, discuss and document with the gauge operators any exposure perceived as being in excess of typical exposure.
  - 5. The RSO shall assure that the gauges are properly secured and protected at all times when not in use by the individual gauge operators.
  - 6. The RSO will review the gauge operator's usage of equipment and assure that any unsafe practices are stopped immediately and develop, implement and document corrective actions when violations of the program are identified.

## B. The gauge operators during each quarter shall be responsible for:

- 1. Ensuring the portable gauges have been inspected and adequately logged in and out of the designated storage area of our facilities each day they are used.
- 2. Ensuring the transportation documents are in order and that the equipment is secured in the transporting vehicle as required by our radiation safety program and DOT requirements.
- 3. Maintain control over the gauge at all times.
- 4. Wear their respective personnel monitoring device.
- 5. Have the following in their possession during gauge use:
  - a. Copy of the License
  - b. Authorization card from RSO
  - c. Copy of the Radiation Safety Plan
  - d. Copy of the equipment operations manual
  - e. Copy of current Leak Test Certificate
  - f. Copy of Emergency Procedures

# INDIANAPOLIS OFFICE DOSIMETRY REPORTS FIRST QUARTER - 2010

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# LANDAUER®

EARTH EXPLORATION INC CHRISTOPHER LOYD 7770 WEST NEW YORK ST INDIANAPOLIS IN 46214

Landauer, Inc. 2 Science Road Glenwood Telephone: (708) 755-7000 Facsimile Customer Service: (800) 323-8830 Customer www.landauerinc.com

Glenwood, Illinois 60425-1586 Facsimile: (708) 755-7016 Customer Service Technical: (800) 438-3241 erinc.com



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CHRISTOPHER LOYD 7770 WEST NEW YORK ST INDIANAPOLIS IN 46214

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EARTH EXPLORATION INC KENNETH P MILLER 4310 C TECHNOLOGY DR SOUTH BEND IN 46628

Landauer, Inc. 2 Science Road Telephone: (703) 755-7000 Cusiomer Service: (800) 323-8830

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Reviewon BY Churg. S. 44. RSO, 3-29-10

INDIANAPOLIS OFFICE PORTABLE GAUGE PHYSICAL INVENTORY REPORTS JUNE - 2010

# EARTH EXPLORATION, INC. (INDIANAPOLIS, IN) NUCLEAR GAUGE PHYSICAL INVENTORY LOG GAUGE NO. 1 DATE - June 14, 2010

INQUIRY	YES	NO	REMARKS
1. Transport container lock in-place?			
2. Securing cable in-place?	V		only One
3. Source rod lock in-place?	√.		4
4. Scaler functioning properly?		V	Müzzen
5. Source rod adequately lubricated?	·\J <sup>*</sup> .		fc
6. Bearings & wiper rings OK?	$\checkmark$		
7. Slide block retracting & closing properly?	V		
8. Leak test current?		Veen	
9. Usage Log in-place?	Land		
10. Standard Count Log in-place?	V		
11. EEI Materials License in-place?	<b>B</b> arado		
12. EEI Safety/Emergency Program in-place?	M		
13. Bill of Lading/Transport Documents in-place?	Reconcepter.		

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Additional Remarks:

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# EARTH EXPLORATION, INC. (INDIANAPOLIS, IN) NUCLEAR GAUGE PHYSICAL INVENTORY LOG GAUGE NO. 2 DATE - June 14, 2010

INQUIRY	YES	NO	REMARKS
1. Transport container lock in-place?			
2. Securing cable in-place?	1	i	
3. Source rod lock in-place?		,	
4. Scaler functioning properly?	$\checkmark$	· · ·	
5. Source rod adequately lubricated?			
6. Bearings & wiper rings OK?			
7. Slide block retracting & closing properly?		r	
8. Leak test current?	Wat		
9. Usage Log in-place?		/	
10. Standard Count Log in-place?	less an	,	
11. EEI Materials License in-place?	V		
12. EEI Safety/Emergency Program in-place?	V		
13. Bill of Lading/Transport Documents in-place?	Viet		

Additional Remarks:

GUNE SUNICON (CALIS MARTON March, 2010-

Rumind by Curing S. G. J. 1850 4-15-10

# EARTH EXPLORATION, INC. (INDIANAPOLIS, IN) NUCLEAR GAUGE PHYSICAL INVENTORY LOG GAUGE NO. 3 DATE - June 14, 2010

INQUIRY	YES NO	REMARKS
1. Transport container lock in-place?	V	
2. Securing cable in-place?	N <sup>2</sup>	
3. Source rod lock in-place?	Burnder	
4. Scaler functioning properly?	look of	
5. Source rod adequately lubricated?	land and	
6. Bearings & wiper rings OK?	Second and	
7. Slide block retracting & closing properly?	1	
8. Leak test current?	V	
9. Usage Log in-place?	V	
10. Standard Count Log in-place?	V	
11. EEI Materials License in-place?	V	
12. EEI Safety/Emergency Program in-place?	V	
13. Bill of Lading/Transport Documents in-place?	V	

Additional Remarks: DC-CHARGER NOT IN PLACE NELO I NEW RADIONCTIVE TI. STICKER

CANING SINCER (CALIBRATION by INSTRUTOR MINCH, 2010

Reviewing by Chips Silpt, 1050

# EARTH EXPLORATION, INC. (INDIANAPOLIS, IN) NUCLEAR GAUGE PHYSICAL INVENTORY LOG GAUGE NO. 4 DATE - June 14, 2010

INQUIRY	YES	NO	REMARKS
1. Transport container lock in-place?	Britant		
2. Securing cable in-place?	Weiterstr		
3. Source rod lock in-place?	Beene it		
4. Scaler functioning properly?	Brandsteiner		
5. Source rod adequately lubricated?	<b>3</b> 28		
6. Bearings & wiper rings OK?	1 Mar		
7. Slide block retracting & closing properly?	Branchar		
8. Leak test current?	a state		
9. Usage Log in-place?	States of the second se		
10. Standard Count Log in-place?	selle,		
11. EEI Materials License in-place?	N/		
12. EEI Safety/Emergency Program in-place?	V	<i>u</i> r	
13. Bill of Lading/Transport Documents in-place?	L.		

Additional Remarks:

No AC Charger (Wall Charger) GANNE SONICOS BY MUSMOTION (CALIBRATION)

Round by Ching S. My, PSO 4-15-10

# EARTH EXPLORATION, INC. (INDIANAPOLIS, IN) NUCLEAR GAUGE PHYSICAL INVENTORY LOG GAUGE NO. 5 DATE - June 14, 2010

INQUIRY	YES	NO	REMARKS
1. Transport container lock in-place?			
2. Securing cable in-place?			
3. Source rod lock in-place?			
4. Scaler functioning properly?			
5. Source rod adequately lubricated?			
6. Bearings & wiper rings OK?			
7. Slide block retracting & closing properly?			
8. Leak test current?			
9. Usage Log in-place?			
10. Standard Count Log in-place?			
11. EEI Materials License in-place?			
12. EEI Safety/Emergency Program in-place?			
13. Bill of Lading/Transport Documents in-place?			

Additional Remarks:

e South Bend other

Round by Chip S. h.F. 100

# EARTH EXPLORATION, INC. (INDIANAPOLIS, IN) NUCLEAR GAUGE PHYSICAL INVENTORY LOG GAUGE NO. 6 DATE - June 14, 2010

INQUIRY	YES	NO	REMARKS
1. Transport container lock in-place?	Lass and the second		
2. Securing cable in-place?	14554555555		
3. Source rod lock in-place?	Land		
4. Scaler functioning properly?	have a start		
5. Source rod adequately lubricated?	100 M		
6. Bearings & wiper rings OK?	Marrison de		
7. Slide block retracting & closing properly?	Lacart		
8. Leak test current?	V		
9. Usage Log in-place?	<b>Kasa</b> ti		
10. Standard Count Log in-place?	Vielest		
11. EEI Materials License in-place?	$\checkmark$		
12. EEI Safety/Emergency Program in-place?	Walkson .		
13. Bill of Lading/Transport Documents in-place?	Water		

Additional Remarks:

CAUTUE SUNCOS & CALIBRATUS by ANSTROTER, May 2010

Rowsendby ChipSchri RSO 1-15-10

# EARTH EXPLORATION, INC. (INDIANAPOLIS, IN) NUCLEAR GAUGE PHYSICAL INVENTORY LOG GAUGE NO. 7 DATE - June 14, 2010

INQUIRY	YES	NO	REMARKS
1. Transport container lock in-place?	Kossela		
2. Securing cable in-place?	Britter		
3. Source rod lock in-place?	V		
4. Scaler functioning properly?	V		
5. Source rod adequately lubricated?	Walter		
6. Bearings & wiper rings OK?	No. 10		
7. Slide block retracting & closing properly?	Variation		
8. Leak test current?	Vere		
9. Usage Log in-place?	Vere		
10. Standard Count Log in-place?	Vert		
11. EEI Materials License in-place?	L.		
12. EEI Safety/Emergency Program in-place?	Marriell 1.		
13. Bill of Lading/Transport Documents in-place?	i Maranda		

Additional Remarks:

Reviewed by Ching, S-hot, 100 6-15-10

# EARTH EXPLORATION, INC. (INDIANAPOLIS, IN) NUCLEAR GAUGE PHYSICAL INVENTORY LOG GAUGE NO. 8 DATE - June 14, 2010

INQUIRY	YES	NO	REMARKS
1. Transport container lock in-place?	~		
2. Securing cable in-place?			
3. Source rod lock in-place?	V		
4. Scaler functioning properly?	V.		
5. Source rod adequately lubricated?	J		
6. Bearings & wiper rings OK?	V		
7. Slide block retracting & closing properly?	V.		
8. Leak test current?	$\checkmark$		
9. Usage Log in-place?	V		
10. Standard Count Log in-place?	V		
11. EEI Materials License in-place?	V		
12. EEI Safety/Emergency Program in-place?	V,		
13. Bill of Lading/Transport Documents in-place?	V		

Additional Remarks:

Rouround by Chings Silft, ASU 6-15-10

# EARTH EXPLORATION, INC. (INDIANAPOLIS, IN) NUCLEAR GAUGE PHYSICAL INVENTORY LOG GAUGE NO. 9 DATE - June 14, 2010

INQUIRY	YES	NO	REMARKS
1. Transport container lock in-place?	$\checkmark$		
2. Securing cable in-place?	$\checkmark$		
3. Source rod lock in-place?	2 Arch		
4. Scaler functioning properly?	V		
5. Source rod adequately lubricated?	V		
6. Bearings & wiper rings OK?	·V		
7. Slide block retracting & closing properly?	$\checkmark$		
8. Leak test current?	V		
9. Usage Log in-place?	Viene		
10. Standard Count Log in-place?	Lese .		
11. EEI Materials License in-place?	Ver		
12. EEI Safety/Emergency Program in-place?	harden the		
13. Bill of Lading/Transport Documents in-place?	Viewant		

Additional Remarks:

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tovional by Chings Supp 1, 1050 6-15-10

# EARTH EXPLORATION, INC. (INDIANAPOLIS, IN) NUCLEAR GAUGE PHYSICAL INVENTORY LOG GAUGE NO. 10 DATE - June 14, 2010

INQUIRY	YES	NO	REMARKS
1. Transport container lock in-place?	V.		
2. Securing cable in-place?	V		
3. Source rod lock in-place?	Based		
4. Scaler functioning properly?	<b>V</b>		
5. Source rod adequately lubricated?	1 Marshall		
6. Bearings & wiper rings OK?	John .		
7. Slide block retracting & closing properly?	S.M.		
8. Leak test current?	Base Street		
9. Usage Log in-place?	1		
10. Standard Count Log in-place?	. here		
11. EEI Materials License in-place?	. been		
12. EEI Safety/Emergency Program in-place?	been		
13. Bill of Lading/Transport Documents in-place?	V		· ·

Additional Remarks:

Needs Charged (Placed On Charges)

Roviowed by Ching Silft, RSO 6-15-10

# EARTH EXPLORATION, INC. (INDIANAPOLIS, IN) NUCLEAR GAUGE PHYSICAL INVENTORY LOG GAUGE NO. 11 DATE - June 14, 2010

INQUIRY	YES	NO	REMARKS
1. Transport container lock in-place?			
2. Securing cable in-place?	J		
3. Source rod lock in-place?			
4. Scaler functioning properly?	V/		
5. Source rod adequately lubricated?	VA 1	/	
6. Bearings & wiper rings OK?	V		
7. Slide block retracting & closing properly?	v		
8. Leak test current?	V		
9. Usage Log in-place?	W/	/	
10. Standard Count Log in-place?	1 december of	/	
11. EEI Materials License in-place?	V/	1	
12. EEI Safety/Emergency Program in-place?		/	
13. Bill of Lading/Transport Documents in-place?			

Additional Remarks:

Rowwood by Aug S. Go, RSO 6-15-10

# EARTH EXPLORATION, INC. (INDIANAPOLIS, IN) NUCLEAR GAUGE PHYSICAL INVENTORY LOG GAUGE NO. 12 DATE - June 14, 2010

INQUIRY	YES	NO	REMARKS
1. Transport container lock in-place?	V		
2. Securing cable in-place?	V		
3. Source rod lock in-place?	N		
4. Scaler functioning properly?			
5. Source rod adequately lubricated?	N		
6. Bearings & wiper rings OK?	$\checkmark$		
7. Slide block retracting & closing properly?	V		
8. Leak test current?	$\checkmark$		
9. Usage Log in-place?	$\checkmark$		
10. Standard Count Log in-place?	V		
11. EEI Materials License in-place?	V,		
12. EEI Safety/Emergency Program in-place?	V		
13. Bill of Lading/Transport Documents in-place?	V		

Additional Remarks:

Korrowel hy augs S. J.n. RSO

# SOUTH BEND OFFICE PORTABLE GAUGE PHYSICAL INVENTORY REPORTS JUNE - 2010

# EARTH EXPLORATION, INC. (South Bend, IN) NUCLEAR GAUGE PHYSICAL INVENTORY LOG GAUGE NO.: 1 /Type 3401/ SERIAL NO.:5379 DATE - 6/15/10

INQUIRY		VES	NO	REMARKS
1. Transport container lock in-place?	AM	X		ang pang sa
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12. EEI Safety/Emergency Program in-place	3? h	X		
13. Bill of Lading/Transport Documents in-pl	lace? <sub>//</sub>	1		

Additional Romarks: Michael Chapter Charles

provenus by Ching S. 47, 250 6-15-10

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## EARTH EXPLORATION, INC. (South Bend, IN) NUCLEAR GAUGE PHYSICAL INVENTORY LOG GAUGE NO.: 4 /Type 3401/ SERIAL NO.: 15995 DATE - 6/15/10

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13. Bill of Lading/Transport Documents in-r	illegetett	<u> </u>		

Additional Bemarks: Matter out to after Store the

Remand by Cang S. Mp. 1850 6-15-10

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# EARTH EXPLORATION, INC. (South Bend, IN) NUCLEAR GAUGE PHYSICAL INVENTORY LOG GAUGE NO.: R05 /Type 3430/ SERIAL NO.:23347 DATE - 6/15/10

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11. EEI Materials License in-place?	App)	1		a normal of a first the second sec
12. EEI Safety/Emergency Program in-plac	ce?~\{{}}	<u> </u>		an <b>generalities</b>
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Additional Remarks:

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# EARTH EXPLORATION, INC. (South Bend, IN) NUCLEAR GAUGE PHYSICAL INVENTORY LOG GAUGE NO.: 5 /Type 3401/ SERIAL NO.: 16903 DATE - 6/15/10

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10. Standard Count Log in-place?				
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Additional Remarks:

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# EARTH EXPLORATION, INC. (South Bend, IN) NUCLEAR GAUGE PHYSICAL INVENTORY LOG GAUGE NO.: 6 /Type 3430/ SERIAL NO.:29621 DATE - 6/15/10

INQUIRY		YES	NO	REMARKS
1. Transport container lock in-place?	494	X		
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Additional Remarks:

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# EARTH EXPLORATION, INC. (South Bend, IN) NUCLEAR GAUGE PHYSICAL INVENTORY LOG GAUGE NO.: 7 /Type 3440/ SERIAL NO.:20691 DATE - 6/15/10

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Additional Remarks:

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# EARTH EXPLORATION, INC. (South Bend, IN) NUCLEAR GAUGE PHYSICAL INVENTORY LOG GAUGE NO.: 8 /Type 3440/ SERIAL NO.:14747 DATE - 6/15/10

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13. Bill of Lading/Transport Documents in-	place	X		

Additional Remarks:

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INVITATIONS TO PUBLIC FOR PORTABLE GAUGE SEMINAR (LESSONS LEARNED) SECOND QUARTER - 2010



4310-C Technology Drive South Bend, IN 46628 574-233-6820 (FAX) 574-233-8242

April 27, 2010

Alt & Witzig Engineering, Inc. 4105 West 99<sup>th</sup> Street Carmel, IN 46060

Attn: Radiation Safety Officer:

At the request of the Nuclear Regulatory Commission we are asking you or your representative to attend a short seminar and roundtable discussion related to the implementation of a successful radiation safety program by materials licensees that use portable nuclear moisture/density gauges. This seminar, which we anticipate could last one to two hours, will hosted by Earth Exploration, Inc., on Wednesday, May 12, 2010, at 12:00 pm. Lunch will be provided. Please R.S.V.P. to Cindy Johns at (317) 273-1690 by May 10, 2010.

We look forward to meeting with you to discuss your experiences with your radiation safety programs and would encourage your input into this important topic.

Should you have any questions, please contact me at your convenience.

Sincerely,

EARTH EXPLORATION, INC.

Christopher S. Loyd / Radiation Safety Officer



4310-C Technology Drive South Bend, IN 46628 574-233-6820 (FAX) 574-233-8242

April 27, 2010

ATC Associates, Inc. 7988 Centerpoint Drive Indianapolis, IN 46256

Attn: Radiation Safety Officer:

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Sincerely,

EARTH EXPLORATION, INC.

Christopher S. Loyd Radiation Safety Officer

Geotechnical Engineering • Materials Engineering and Testing • Exploratory Field Services



4310-C Technology Drive South Bend, IN 46628 574-233-6820 (FAX) 574-233-8242

April 27, 2010

Professional Service Industries, Inc. 5362 West 78<sup>th</sup> Street Indianapolis, IN 46278

Attn: Radiation Safety Officer:

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Sincerely,

EARTH EXPLORATION, INC.

Cusp S. G.

Christopher S. Loyd / Radiation Safety Officer



4310-C Technology Drive South Bend, IN 46628 574-233-6820 (FAX) 574-233-8242

April 27, 2010

CTL Engineering, Inc. 4343 Saguaro Trail Indianapolis, IN 46268

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Sincerely,

EARTH EXPLORATION, INC.

Christopher S. Loyd Radiation Safety Officer

Geotechnical Engineering • Materials Engineering and Testing • Exploratory Field Services



4310-C Technology Drive South Bend, IN 46628 574-233-6820 (FAX) 574-233-8242

April 27, 2010

K&S Engineers, Inc. 161 Garstang Street Beech Grove, IN 46107

Attn: Radiation Safety Officer:

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Sincerely,

EARTH EXPLORATION, INC.

Christopher S. Loyd Radiation Safety Officer

Geotechnical Engineering • Materials Engineering and Testing • Exploratory Field Services



4310-C Technology Drive South Bend, IN 46628 574-233-6820 (FAX) 574-233-8242

April 27, 2010

Patriot Engineering and Environmental, Inc. 6330 East 75<sup>th</sup> Street Indianapolis, IN 46250

Attn: Radiation Safety Officer:

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Sincerely,

EARTH EXPLORATION, INC.

Christophe S. Loyd Radiation Safety Officer

# OUTLINE FOR PORTABLE GAUGE SEMINAR WITH PUBLIC (LESSONS LEARNED) SECOND QUARTER – 2010

## DISCUSSIONS OF RADIATION SAFETY PROGRAMS AND PORTABLE GAUGE TRANSPORTATION AND USAGE MAY 12, 2010, 12:00 pm Discussion Led by Christopher S. Loyd, RSO Earth Exploration, Inc.

## **INTRODUCTION:**

## **BASIC RSO DUTIES:**

- Ensure terms of license are met
- Maintain all records
- Certification (Radiation safety & Hazmat) of gauge operators mandatory
- Ensure training of users current (Hazmat update every 3 years)
- Ensure operators understand emergency procedures
- Ensure leak test are performed at required intervals
- Ensure operators wear their dosimetry
- Ensure equipment is used properly
- Ensure gauges are used properly
- Serve as point of contact & give emergency assistance

## OTHER RADIATION SAFETY PROGRAM (RSP) DISCUSSIONS

- Make sure RSP follows specific wording in materials license
- Make sure gauge operators understand this wording
- Average gauge users receives < 50 mRem/year
- Beryllium (Be:) is not radioactive, but a stable element
- Removal of Be on transport labels mandated by NRC
- Should be noted on new transport labels
- If you don't have them, get them
- Make sure Bill of Lading (BOL) is properly displayed
- Make sure BOL wording is same as transport labels
- Make sure operators understand ALARA philosophy
- If exposure of > 5,000 mRems occurs, must notify NRC
- Operator has to provide written documentation why high exposure occurred, and why high test result not accurate
- Employees under the age of 18 limited to < 500 mRems/year
- Pregnant women limited to < 500 mRems/ term of pregnancy
- If company has female gauge operators and they become pregnant, monthly badging of employee should be made
- If office employee becomes pregnant, issue her dosimetry during pregnancy

- Office employees (general public) limited to < 100 mRems/year
- Make public dose calculations and follow up with survey meter
- Record exposure calculation sheets and keep in program files
- If uncertain, obtain area badge for those closest to sources
- If survey meter is on license it must be calibrated yearly
- Records of dosimetry test results must be maintained forever
- Company must provide records to employees (including former employees) if requested)
- Dosimetry results should be provided to current employees
- Should be provided at least one time per year
- Consider individual exposure reports to employees yearly
- Leak tests and dosimetry reports must be reviewed and signed by RSO. These are considered as legal documents

## ADDITONAL DISCUSSIONS

- Consider access to gauge storage area as being restricted to other employees
- If licensee has more than 10 gauges, warning sign must state "Radiation Area", not just "Radioactive Materials"
- Check for updates to Source Certificates
- Troxler 3430 and 3440 model gauges require new certificates
- Troxler web page has new certificates
- The certificates should be in individual gauge files
- Closely review your transportation means and methods
- Gauge can not move more than 1 inch during transportation
- Inspection of transport box should be made daily (revise wording in usage log at storage facility)
- Type 'A' Package Test Results must be in nuclear gauge file
- Need to provide a security seal for transport box ("a lock is not considered as a seal, a lock is required as a safety measure")
- USDOT Type 7A Label must be on side of box, not the top
- Current date must be put on BOL each day gauge is transported

## INCIDENTS - LOST OR STOLEN GAUGES

- Operator must inform RSO ASAP!
- RSO must notify regulatory agency, police, ASAP
- RSO should notify gauge manufacturer
- FBI will visit you in 24 hours if not found
- If loss occurs, review of issues related to loss should be made and documented
- Make changes in security methods
- Consider better prevention methods

## IF GAUGE IS SEVERELY DAMAGED

- Locate source rod...do not touch!
- Do not move gauge until RSO contacted
- Leak test (with survey meter) source rod or gauge at accident scene before moving
- Remember 15 ft rule for cordoning distressed gauge area
- Contact manufacturer for directions before sending for repair
- Take photos
- Most importantly, have accident plan in-house in case of accident

## OTHER ITEMS

- Maintain yearly audits
- Maintain physical inventory of gauges every 6 months
- Maintain labels on transport boxes
- Alternative Dispute Resolution

## ROUNDTABLE DISCUSSIONS SUMMARY

• Input was made by all attendees during the discussions of items noted above. Most of the input was made related to the different types of security made by the firms for their respective gauges, concerns related to theft, use of seals for the transport boxes during transport, and dosimetry. It was observed that several of the attendees were writing notes during the presentation by Mr. Loyd. The discussions concluded at 1:30 pm.

Attendees: Bob Ramsay – ATC Associates, RSO Ken Sullivan – Patriot Engineering, Inc., RSO Tobin Moore – Alt & Witzig Engineering, Inc., Asst. RSO Dan Westfall – CTL Engineering, Inc., Asst. RSO

No Attending: Professional Service Industries, Inc.