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2006 APR -7 PM 1: 20

US Nuclear Regulatory Commision 475 Allendale Road King of Prussia, PA. 19406-1415 March 31, 2006

Attention: Samuel Collins Regional Administrator, USNRC Re: License 29-30107-01

In accordance with the Code of Federal Regulations Title 10, Chapter 1, Part 20, Subpart M- 20.2201, U.S. Laboratories Inc. is issuing a written report regarding the missing and recently recovered licensed radioactive material. The subject material is 8.0 millicuries of Cesium 137 and 40 millicuries of Americium 241 Beryllium contained in a Portable Nuclear Density Gauge- Model Troxler 3411B, Serial # 9524

It should be noted that on 3/7/06 the material was recovered intact by Jack Branyan, ARSO and is presently secured at our Broomall, Pa. storage facilities. Upon recovery, the gauge was found locked in its transport case and the source-rod locked in the safe position. An immediate radiation survey indicated levels of radiation less than 3 mrem/hour at one meter from the sides of the NDG transport package container and a leak test was performed for which the results are included within in this report that indicate less than .005 mCl.

The precise details of the circumstances leading up to the loss of this gauge are still unclear at this point and we are still pursuing additional information. As soon as further details become available we will issue a follow up report regarding any new pertinant information.

To the best of our knowledge, the following information regarding gauge #9524 is verifiable:

- 1). Physical inventory and leak test performed on 4/26/05.
- 2). Gauge signed out to Dan Griffin on 5/19/05
- 3). Gauge was assigned to Jamie Figueroa at the University of Penn. on 6/22/05.
- 4). Gauge was picked up on 6/22/06 and returned to the Broomall office by Shawn Casey.
- 5). Gauge was not signed in or signed out in the utilization log.

Gauge #9524 was discovered by a Public Works Employee behind a guardrail while cleaning out a storm drain at the end of a cul de sac in an industrial park in Northeast Philadelphia on 3/02/06. The employee immediately called 911 and the NE Philadelphia Fire Dept. Hazmat Team responded and recovered the gauge after a survey was performed. The gauge was then transported to the Fire Training Academy in NE Philadelphia where it was held until 3/06/06 when the NRC was notified. The gauge was still in its DOT approved transport case. The case was locked as well as the source rod.

U.S. Laboratories Inc.

A Bureau Veritas Company 139 N. Iowa Avenue Atlantic City, NJ 08401

Main: (609) 344-3200 Fax: (609) 344-2125 www.us.bureauveritas.com



Although exposures of individuals to radiation or total effective dose equivalent to persons in unrestricted areas cannot be fully verified at this time we strongly believe that it is highly unlikely that any one individual was exposed to more than 100mr for the following reasons:

1). The gauge was found in a remote location not frequented by pedestrian or automobile traffic.

2). The gauge source rod and case were still locked when found.

3). The transport index for this device is less than 0.3 mrem/hour at one meter from the sides of the transport package and as a result a member of the public would have to have been in close proximity to the gauge over an extended period of time for any significant radiation exposure to have occurred. Should additional information reveal verifiable exposures other than the above estimates we will forward our findings in a follow up report.

The following is a list of corrective actions and/or measures being implemented to ensure against a recurrence of the loss of licensed material:

1). Access to remove and store gauges at the storage facilities has become limited to 2 Senior level individuals in each office.

2). A memorandom issued to all gauge operators requiring daily written and verbal confirmation of gauge possesion and location for tracking purposes.

3). A bi-weekly email or fax reporting of all gauge locations to the Regional RSO.

4). Disciplinary action for those employees which violated the NDG Enforcement Policy as applicable.

5). Revising of USL RPPG (Radiation Protection Program Guide) to include in house management notification procedures.

Items 1, 2 & 3 were implemented within the first two weeks of gauge discovery. Items 4 & 5 are in the process of being implemented.

Respectfully Your

Martin H. Mygrap Regional Radiation Safety Officer U S Laboratories Inc. *A Bureau Veritas Company* 139 North Iowa Ave. Atlantic City, NJ. 08401 Ph, 609-344-3200 Fax 609-344-2125 Cell 609-868-1229 martin.mygrant@us.bureauveritas.com www.us.bureauveritas.com

cc. John Kinneman, Branch Chief- DNMS-USNRC Ralph Silva, Corporate RSO-USL Robert E. Hughes, Chief Regional Executive-USL USL- RSO file

U.S. Laboratories Inc.

A Bureau Veritas Company 139 N. Iowa Avenue Atlantic City, NJ 08401

Robert E. Hughes Chief Regional Executive U S Laboratories Inc. *A Bureau Veritas Company* 903 East Hazelwood Ave. Rahway, New Jersey 07065 Ph. 732-382-3553 Fax 732-382-8140



Attachments:

- Leak Test report for gauge #9524.
 Memorandom regarding daily confirmation.
 Letter to Management, Re-Missing gauge.

U.S. Laboratories Inc.

A Bureau Veritas Company 139 N. Iowa Avenue Atlantic City, NJ 08401



North East Technical Services, Inc. 75 Aileron Ct., Suite 4 Westminster, MD 21157 Ph: 410.751.5090 Fax: 410.751.5091

US Laboratories, Inc. - Rahway 903 E. Hazlewood Ave. Rahway, NJ 07065 ATTN: Martin Mygrant

Shipping Address: 903 E. Hazlewood Ave. Rahway, NJ 07065

LEAK TEST CERTIFICATE

MD Materials License # MD-13-020-01

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

Gauge Model	3411	Gauge S/N	9524	Leak Test Date	3/8/2006
Source		Reading in microCuries			
4	10-6971		0.0000731		
4	7-6156		0.0000013		

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

Dough Sim Reviewed by:

Date: 3-9-01



RECEIVED REGION 1

2006 APR - 3 AM 11:20

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

Dough Sires Reviewed by:

Date: 39.00



March 15, 2006

To: All NDG Operators, Operation Managers & ARSO's

This memo is and its directives are the direct result of the loss of a Nuclear Density Gauge, Serial # 9524 from the Broomall, PA. office.

This gauge has been recovered yet, due to the breakdown in our system regarding tracking gauges, we are as of today implementing new procedures for gauge accountability. The following tracking methods shall be utilized in all offices of US Laboratories Inc.

1). Gauges **will not** be signed in or checked out without the express permission of one of two senior individuals from each office.

2). The NDG Operators are to utilize the space on our standard Testing & Inspection report for **daily** documentation of the gauge # in their possesion. (**This is mandatory**)

3). When the NDG Operators call in their time they are to also notify office personal what gauge # they may have. This info shall be documented on the daily logs.

4). The ARSO or the Operation Manager shall email or fax an up-dated inventory of gauges along with the gauge locations every two weeks.

The theft or loss of Radioactive Material is a very serious issue and is subject to civil penalties. Your cooperation in the implementation of these procedures is **not optional.** If, for any reason, these measures cannot be adhered to, the RSO must be notified immediately.

Youg Friendly/RS

Martin H. Mygradt/ Regional Radiation Safety Officer U S Laboratories Inc. *A Bureau Veritas Company* 139 North Iowa Ave. Atlantic City, NJ. 08401 Ph. 609-344-3200 Fax 609-344-2125 Cell 609-868-1229 martin.mygrant@us.bureauveritas.com www.us.bureauveritas.com

U.S. Laboratories Inc.

3 Bureau Vizita Company 139 N. Iowa Avenue Adamie Cav. NJ 08401



March 10, 2006

Robert E. Hughes Regional Chief Executive US Laboratories Inc. /Bureau Veritas

Dear Bob,

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On September 30, 2005 a Radiation Safety Meeting was conducted at the Broomall, PA. office of US Laboratories Inc. The purposes of this meeting was to update the personnel regarding the NRC findings relating to NRC Inspection and subsequent Notice of Apparent Violations and for performing a physical inventory and leak test on all of the gauges in this office. All attending were required to read and sign the Enforcement Policy. This was listed as a mandatory meeting and several employees did not attend. All gauges assigned to this office were inventoried and leak tested with the exception of #'s 270, 9524 & 33117. The Operators who did not show were M.Bradson, S. Budko, C.Connelly, D.Griffin & V. McCoy. Jack Branyan was instructed to follow-up on the remaining Operators and to complete the leak testing on the three gauges which were not tested. As a follow-up to the physical inventory a request for NDG inventories are emailed to all offices every month and this inventory list is to include the location of these gauges and the operator in possession in order to maintain close control. These measures, if properly followed, were regarded as adequate for preventing such an occurrence. The Rahway and AC offices complied with these requests, but the Broomall office was not responding. Repeated requests were made and a follow-up call was made to Paul Spiegel regarding the lack of response. No mention was made of the possibility of a missing gauge to me in any form or manner. Recent conversations in February with Jack Branyan were in reference to gauges that were to be sent out for repair or disposal and again no mention of a missing gauge. I received a call from the NRC at 5:00 PM Monday 3/06/06 stating gauge #9524 was recovered in Northeast Philadelphia, PA by the Fire Company.

I hope this letter clarifies your understanding of my position on this incident. Should you have any questions, please do not hesitate to contact me at your earliest convenience.

Respectfully, Yours.

Martin H. Mygrant, RSO US Laboratories Inc.



March 15, 2006

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Your Friendly/RS

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