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**To:** "Bob Evans" <RJE@nrc.gov>, "Janine F Katanic" <JFK@nrc.gov>  
**Date:** 01/17/2008 3:13:59 PM  
**Subject:** Close Out of Open Items from Previous Violation

Hello Bob and Janine,

We have closed out all open items from the Radiological Safety Condition Report we issued on March 16, 2007 for the incident which occurred at Building 21 on February 28, 2007 regarding nuclear instrumentation. (It is also the follow-up to the NRC violation regarding the same problem).

Corrective actions included the purchasing of 50 check sources for the beta/gamma and alpha friskers onsite, installing the check sources on each frisker, training technicians on the use of the check sources and revising 2 procedure. The follow-up report was issued documenting that all corrective actions had been completed and the Radiological Safety Condition Report closed out. A copy is attached.

Laura Gonzales

**CC:** <keith.asmussen@gat.com>

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**Subject:** Close Out of Open Items from Previous Violation  
**Creation Date:** 01/17/2008 3:11:50 PM  
**From:** "Laura Gonzales" <laura.gonzales@ga.com>

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Files	Size	Date & Time
MESSAGE	740	01/17/2008 3:11:50 PM
TEXT.htm	1811	
close out of rsc rpt 3-07.pdf	89763	
Mime.822	127547	

**Options**

**Expiration Date:** None  
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January 16, 2008  
Prepared by Laura Gonzales

**Close Out of Health Physics Report of Radiological Safety Condition -  
Nuclear Instrumentation Found Not Working In Building 21 (TRIGA® Reactor Facility)**

**Background**

On March 16, 2007, a Radiological Safety Condition Report was issued after instruments in Building 21 (TRIGA® Reactor Facility) were found to not be operating well. (See Report). Some actions were taken immediately to correct the problem(s). Some items required longer term assessment, purchase of materials and procedure updates to correct the problem. A list of open items were discussed in the report.

**Update**

Open items listed in the Radiological Safety Condition Report have now been closed out. Each open item and the action taken to close out the open issue are discussed below:

1. Complete the source testing of all instruments on site.

Update: All Complete.

2. Re-chargeable batteries on the Eberline RM-14's and Ludlum 177's should be changed every 3 years. Action Needed: The Nuclear Calibration Technician will revise applicable procedures to require this.

Update: The procedure has been updated and issued.

3. Consider making it a requirement for response testing all alpha/beta survey instruments prior to use (except microR meters and dose rate meters). Action Required: Health Physics personnel will determine if this should be required and if applicable procedures should be changed.

Update: Decision was made in April to purchase check sources for all alpha and all beta friskers and require the HP Technicians to check the instrument prior to use. HP-46 was revised to clarify this requirement.

4. Consider placing a check source on all alpha/beta survey instruments so that it is easy to source test an instrument prior to use. Also, consider what documentation may be required to verify that this was completed. Action Required: Health Physics personnel will determine if this should be done.

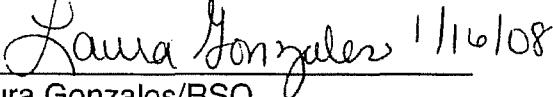
Update: Decision was made in April to purchase check sources for all alpha and beta friskers. A total of 35 beta (Cs-137) sources were ordered from Ludlum Measurements and 15 alpha (Th-230) sources were ordered from Eberline Instruments. The purchase order for the alpha sources from Eberline was delayed due to a data input problem but the sources were eventually received in November 2007. A total of 40 instruments now have check sources on them as follows:

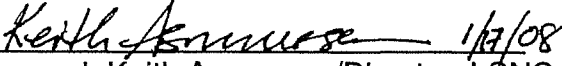
26 beta/gamma friskers  
4 beta floor monitors

8 alpha riskers  
2 alpha monitors

HP Technicians have been trained on how to use the check sources and what they should read (reading is also written on the source). Other individuals (DIII-D personnel, TRIGA personnel, GA-ESI and other people who use the instruments at GA) have also been shown how to use the check sources.

**All Items have been Completed and the Radiological Safety Condition Report was closed.**

 1/16/08  
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Laura Gonzales/RSO

 1/17/08  
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Approved: Keith Asmussen/Director, LSNC

cc: Keith Asmussen  
John Greenwood  
Kim Moore  
Ed Rudgers  
Scott Cowan  
Joe Sullivan  
Mario Monreal  
2007 HP Incident File