

**From:** Sandra Gabriel  
**To:** Nasser Razmianfar  
**Date:** Mon, Jan 23, 2006 6:30 PM  
**Subject:** Additional information for NRC license amendment request for new HDR unit, control 138011

Licensee: West Virginia University Hospitals, Inc.  
License: 47-23066-02  
Docket: 03020233  
Mail control: 138011

To: Nasser Razmianfar, RSO

We have reviewed your letter dated January 13, 2006 that you faxed last week, and have identified several areas requiring additional clarification.

Please send an e-mail to confirm receipt of this message.

1) In response to our request for detailed facility information about your HDR treatment room, you provided some narrative information and a copy of a shielding evaluation regarding placement of a linear accelerator in this room. Your narrative stated that wall thickness is including in the shielding report and the scale of the drawings is 1/4"=1'. The scales of the floorplan versus elevation appear to be different, and the relative thicknesses of walls on the floorplan do not appear to correspond to the recommended thicknesses in the shielding report.

Please provide an updated copy of the floorplan that includes the drawing scale, interior room dimensions, as-built shielding thicknesses, and location of the HDR unit during physics testing and patient treatments. Also provide your HDR workload assumptions (i.e., hours per week of exposed source time for a 10 curie source).

2) Item #5 of your letter stated that the "Radiation Safety Officer or his designee will receive Varian training in radiation safety and emergency response for the VariSource HDR unit." Confirm that the Radiation Safety Officer will receive this training.

3) Item #8 of your letter described periodic spotchecks. Please describe the methods used to assure proper operation of the radiation area monitor and door interlocks.

4) Item #12 of our e-mail to you dated December 16, 2005 requested you to make updates to your HDR emergency procedures. Item #10 of your response stated that you will post the names of individuals responsible for implementing corrective action, names and telephone numbers of the authorized users (AUs), the RSO and Varian's emergency contact, maintenance, and technical support. Please confirm that you will also:

- a) post the names and telephone numbers of the authorized medical physicists (AMPs) to be contacted if the HDR unit or console operates abnormally,
- b) update your emergency procedures to include the names and contact information that you agreed to post, and
- c) update your emergency procedures to address the need for maintenance and recalibration of the HDR unit after implementation of emergency procedures and before next clinical use.

5) Please note that, in the future, management should sign any correspondence that contains additional license commitments (examples: commitments to provide training or to update procedures).

Thank you for your help. If you have any questions, you may e-mail me or call at 610-337-5182.

Sandy Gabriel  
Senior Health Physicist

Medical Branch  
NRC Region I

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**Creation Date:** Mon, Jan 23, 2006 6:30 PM  
**From:** Sandra Gabriel  
**Created By:** SLG2@nrc.gov

**Recipients**

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