

**E-MAIL ATTACHMENT
REQUEST FOR ADDITIONAL INFORMATION**

**TO: Karen Colucci, Radiation Safety Officer
Albert Einstein Healthcare Network**

**FROM: Willie J. Lee, Health Physicist
USNRC Region 1**

**RE: License Number 37-00448-19
Docket Number 030-07551
Control Number 135923**

DATE: January 12, 2005

Please provide the following additional information to support your amendment request:

1. Please provide a description of warning signs, warning lights and alarms for the HDR facility, console and unit.
2. Please provide a description of the areas above and below the treatment room. Also describe areas adjacent to the source storage vault.
3. Please verify that the HDR source will not be exposed while in the source storage vault. Also, if the source storage vault will be used to store new sources prior to installation, please describe existing shielding and provide barrier shielding calculations.
4. Please provide barrier shielding calculations for the treatment room ceiling, which appears to be the worst-case scenario.
5. Please describe any voids in the treatment room shielding (conduits, ports etc...).
6. Please indicate whether you will be returning sources directly to Mallinckrodt in the Netherlands or whether Nucletron will take possession of the sources in the United States.
7. Generally, the backup battery for the unit requires the unit to be plugged into an outlet at all times. If the unit is stored in the source storage vault, how will this be accomplished? If you wish to store the unit in the Varian 2100 Linac Room, describe access controls (e.g. door locks) when the unit is not attended.
8. Confirm that the Radiation Safety Officer will also receive vendor training on emergency procedures for the HDR.
9. Describe the type of area monitor to be used and confirm that its use will be suspended if the area monitor fails.

Please note the following comments:

- a. Your monthly QA procedures were not required to be submitted and were not thoroughly reviewed, however, a cursory review indicated that some procedures may be contrary to NRC requirements. Full calibrations must be performed by the Authorized Medical Physicist, done in accordance with nationally recognized standards and must include source retraction with the unit's backup battery.
- b. Your daily procedure for the survey meter test does not instruct the user to move the meter knob off the battery check setting prior to performing the source check.
- c. Your emergency off and interrupt button tests are both written for the interrupt button test.

I can be reached by phone at (610) 337-5090 if there are questions concerning the requested information. Your written response to the requested items can be faxed to me at (610) 337-5269.