



**YALE-NEW HAVEN HOSPITAL
RADIATION SAFETY OFFICE**

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P-6

May 8, 2012

License No.: 06-00819-03
Docket No.: 030-01244

U.S. Nuclear Regulatory Commission, Region I
475 Allendale Road
King of Prussia, PA 19406-1415

SUBJECT: License amendment request to allow emergency relief from dose limits for individual members of the public.

Gentlemen and women of the NRC,

Yale-New Haven Hospital would like to request an amendment to NRC license 06-00819-03 for a particular case. The request would be to allow identified adult family members of a child who requires special social support during radiotherapy treatment, to be allowed to exceed the annual radiation dose limits allowed for members of the public.

This case involves an 18 yr old female who was diagnosed with thyroid cancer. She had a surgical thyroidectomy, but due to the extent of her disease also required a tracheostomy, about 4 weeks ago. She has now been referred for Iodine-131 therapy. The special circumstances in her case arise due to the fact that she is autistic and functions at a 7 – 8 yr old level and can only communicate effectively with her mother or other close family members. During the past 4 weeks in the hospital, her mother and grandmother have been constantly present to support and assist in her care.

The Authorized User has determined that it is in the patient's best interest to have familial support, to successfully complete the course of radiotherapy. In addition, the following additional measures will be taken to keep designated caregiver exposures As Low As Reasonably Achievable (ALARA).

1. Only adult family members (> 18 yrs old) who volunteer will be allowed to participate in her direct care.
2. The designated caregivers will be trained in radiation safety procedures to maintain their exposures As Low As Reasonably Achievable (ALARA).

20 York Street
New Haven, CT 06504

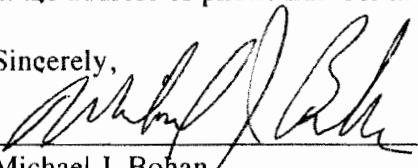
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NM99/RGN1 MATERIALS-002

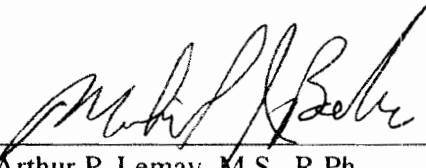
3. The Radiation Safety Program will monitor the caregivers to make sure their exposure does not exceed 2,000 mrem. If a volunteer is already considered an occupational worker a request for their current occupational dose will be made and their total dose will not be allowed to exceed the annual occupational dose limit.
5. The Radiation Safety Program will provide appropriate shielding, supplies and other measures intended to keep exposures ALARA.
6. The Radiation Safety Program will provide OSL and direct reading dosimeters, bioassay services and the caregivers will be offered KI or Lugol's solution to block their thyroids during the first 48 hours post administration.
7. Records of special caregiver exposures and thyroid bioassay results will be kept for review for a period of 3 years or until the last NRC inspection.

If you have any further questions, please feel free to contact the Radiation Safety Officer at the address or phone number above.

Sincerely,



Michael J. Bohan
Radiation Safety Officer/Health Physicist



Arthur P. Lemay, M.S., R.Ph.
Exec. Director, Oncology Services
for Art + Lemay

cc: State of Connecticut - Dept. of Environmental Protection, Rad. Control Unit
Marna P. Borgstrom, President, Chief Executive Officer