

Improving the health of the people in our communities by providing quality, compassionate care to everyone, every time

**Bryan Parker**  
License Reviewer  
Nuclear Regulatory Commission

June 22, 2012

Dear Sir,

Control Number: 576038.

In response to our telephone conversation on Wednesday, June 20, 2012, please find below a description of the Radiation Safety In-service given to the three applicants for Authorized User.

This Radiation Safety In-service was given by the Sparrow Hospital's Radiation Safety Officer (Martin Johnson) prior to the taking of the Radiation Safety Examination on January 6, 2012 (listed as Item 8.2 of the original submission dated April 24, 2012). This In-service included training as described in Appendix G in NUREG-1556, Vol.5).

**Radiation Safety: Course Content**

Training was in the form of lecture, with hands-on demonstration, emphasizing practical subjects important to the safe use of the self-shielded irradiator:

- Radiation Safety
  - Radiation vs. contamination
  - Internal vs. external exposure
  - Biological effects of radiation
  - Types and relative hazards of radioactive material possessed
  - ALARA concept
  - Use of time, distance, and shielding to minimize exposure
  - Use of radiation detection instruments.
- Regulatory Requirements

Control Number: 576038

Page 1 of 2

- Locations of use and storage of radioactive materials
  - Material control and accountability
  - Annual audit of radiation safety program
  - License conditions, amendments, renewals
  - Transfer and disposal
  - Recordkeeping
  - Handling incidents
  - Licensing and inspection by regulatory agency
  - Need for complete and accurate information
  - Employee protection
  - Deliberate misconduct.
- Practical Explanation of the Theory and Operation for Each Irradiator Possessed by the Licensee
    - Routine vs. non-routine maintenance
    - Operating and emergency procedures
    - Prior events involving self-shielded irradiators.

If you have any further questions, please feel free to contact me.

Respectfully,



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