

**TRUMBULL ONCOLOGY CENTER**

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Chief Technologist

January 5, 1993

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555

Dear Sir/Madam:

RE: NRC Bulletin 92-02  
Li #: 06-20870-01

In response to the question of the "end-of-useful-life" issue concerning our Theratronics teletherapy unit, I am submitting this report as requested:

1. Make and model number of teletherapy unit:

Atomic Energy of Canada Limited Theratron 80

2. Date of manufacture

Unknown

3. Serial Number:

118

4. Present use of the teletherapy unit:

Routine clinical use

Average weekly patient workload: 115

If unit had to be removed from service for an extended period of time for service or replacement, the patients would be treated at Bridgeport Hospital on a Philips SL75-14 dual energy linear accelerator.

5. Trumbull Oncology Center is committed to performing the special inspections per Theratronics's revised Survey and Inspection Procedure I 1024 GO91G10 REV C. and if stress cracking is discovered on the cast iron arm of the T80 unit, the unit would be immediately removed from service and either the crack would be fixed or the unit replaced.

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6. As best as it can be ascertained, there has been no significant downtime in the past five years for this T80 therapy unit. There was one lost day due to a failure in the table break release. A new cotter pin corrected the problem.

7. This therapy unit is presently covered by a service contract with Therapy Services, Inc., 6243 Jefferson Pike, Frederick Maryland. The expiration date of the contract is December 1, 1993. We expect to renew the contract on a yearly basis. The contract covers two scheduled visits per year, at 6 month intervals, to perform a thorough inspection and adjustment of all critical components and units systems.

8. Trumbull Oncology Center is committed to ensure continued safe clinical use of the T80 therapy unit.

a. Inspections

- (i) Frequency: Twice yearly
- (ii) What will be inspected?
  - source drive mechanism
  - field light system
  - rotation system
  - head rotation system
  - table brakes
  - table vertical drive
  - control console
  - position and indicator lamps
  - collimator
  - all critical components and unit systems
- (iii) Who will perform the inspections?
  - Therapy Services, Inc.
- (iv) Operational Checks
  - Therapy physicist

b. Service

- (i) Prearranged
- (ii) By service contract
- (iii) Therapy Services, Inc.

c. Parts replacement:

- (i) Necessary replacement parts are obtained from Therapy Services, Inc.
- (ii) The suitability of the replacement parts is at the discretion of the service company.

d. Service, source exchange and 5-year inspections

- (i) Name of organization to perform services
  - Neutron Products, Inc.
  - 22301 Mt. Ephraim Road
  - P.O. Box 68

Dickerson, MD. 20842

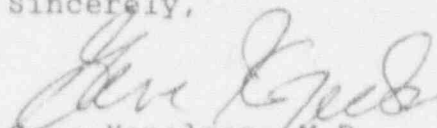
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e. For any needed repairs or essential inspections for which necessary resources are unavailable or delayed, we are committed to halting all use of this unit until the necessary repairs and/or inspection has been accomplished.

9. We are presently in the process in replacing this unit with a linear accelerator.

Sincerely,

A handwritten signature in cursive script, appearing to read "Gene Kopelson".

Gene Kopelson, M.D.  
Director