

CAMDEN-CLARK
MEMORIAL HOSPITAL

800 Garfield Avenue
P.O. Box 718
Parkersburg, West Virginia 26102
(304) 424-2111

LEO D. CARNSER, ADMINISTRATOR



March 14, 1985

05 MAR 21 A 9:20

Ms. Carol A. Connell, Radiation Specialist
Nuclear Materials Safety Section
U.S. Nuclear Regulatory Commission
Region II
101 Marietta Street, N.W.
Atlanta, Georgia 30303

Dear Ms. Connell:

Reference: 50448; 030-00529

I have not been able to gather all the information you have requested in connection with our teletherapy license renewal. As discussed in our telephone conversation, the information I have is given below. When I complete the radiation survey of the teletherapy room, the results will be sent to you immediately. We have also contacted Atom Therapy Service (Mr. T. Kidd) about their authority to perform the five-year inspection, and they have assured us a copy of their license will be sent to us in time.

The following are the point-by-point response to your request of February 20, 1985:

1. Significant shielding has been added to all the four walls of the telecobalt room. This is detailed in the copy of the floor plan attached. The steel and outside concrete (marked with dots) are the new additional shielding. I have been calculating the shielding of this room for the replacement of the telecobalt unit with a 6 MEV linear accelerator (6MV photon) without a primary beam shield. Installation of the linear accelerator in the same geometry as the telecobalt, according to my calculations for a daily patient load of 40, all wall shielding as shown in the attached floor plan (current shielding) are adequate for the 6MV photon unit with no primary beam shield.
2. A Capintec 192 electrometer with a Capintec 0.6cc thimble chamber is used for the calibration and monthly check of our telecobalt machine. This dosimetric system was last calibrated at the "Accredited Dosimetry Calibration Laboratory", Allegheny Singer Research Corporation, Allegheny General Hospital, Pittsburgh, PA. on October 12, 1983 (Report No. 6, a copy of the front page attached). We are planning to have the system recalibrated in 1985 summer. We have been following the AAPM SCRAD calibration protocol until 1984. In July 1984, we changed over to the new AAPM TG-21 protocol for

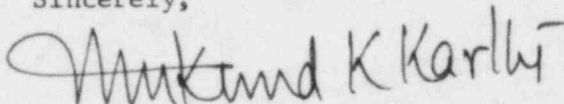
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calibration of the telecobalt unit.

3. Leak test is performed every six months by taking wet wipes from master collimator areas closest approachable to the sealed telecobalt source. The sample is assayed in a Camberra Series 30 multichannel analyzer (with scintillation well detector) and the cpm compared with cpm per 100 dps of a standard Cobalt-60 source.
4. We follow the Appendix H of the U.S. NRC licensing guide for our departmental instruction program for radiation safety and emergency. As regards the ALARA program, I was under the impression, (and our records confirm) that this institution had signed up to comply with the U.S. NRC and ALARA guideline. Since I arrived at this institution and assumed the responsibilities of the RSO, the personnel exposure records and responsibilities have been directed by myself. The radiation exposures to our workers are reviewed or audited periodically by me and reported to the Medical Isotope/Radiation Safety Committee. As an institutional policy, I talk to any radiation worker recording above average monthly exposure and find the cause for the higher value. Recommendations are made to avoid such unusual exposures. This is my own policy and is in excess of the ALARA requirements. As for the licensing requirement we meet the 25% MPD level and review our policies to maintain a lower level of exposure to our teletherapy workers.
5. We contacted Mr. T. Kidd of Atom Therapy Services about his license and was assured that a copy will be sent immediately. We have not yet received one and will be sent to you when received. Please note that our contract to perform the five year inspection of the telecobalt machine has been with Neutron Products, Inc., Maryland, and Mr. Kidd was sent here as their representative. I have also contacted Mr. Baumgardner and was assured that Mr. Kidd is authorized to perform the inspection. A copy of the correspondence on the five year inspection is attached.

Sincerely,



Mukund K. Kartha, Ph.D.
Radiation Safety Officer

MKK/jfp

cc; Mrs. Frances Gracey
Associate Administrator

James Carter, M.D.
Radiology Department

NEUTRON PRODUCTS inc

22301 Mt. Ephraim Road, P.O. Box 68
Dickerson, Maryland 20842 USA
301/349-5001 TWX: 710-828-0542

November 1, 1984

Dr. M.K. Kartha
Camden-Clark Memorial Hospital
Department of Radiation Therapy
800 Garfield Avenue
Parkersburg, West Virginia 26101

Dear Dr. Kartha:

This is to confirm that Neutron Products will perform the "five year inspection" on your Picker C9 teletherapy unit on Wednesday, November 7, 1984, starting approximately at 8:30 a.m.

I understand that you are having no special problems with the unit and do not expect any nonstandard service.

Further, it would be helpful if the previous service reports and unit maintenance log, if one is maintained, be available for review prior to our performance of the "five year inspection".

If any of the above is incorrect, please call myself or either Marvin M. Turkanis or Donald R. Baumgardner.

Sincerely,

NEUTRON PRODUCTS, INC.

Edward F. Finn for

Edward F. Finn, Manager
Teletherapy Services

EFF/ksg

ACCREDITED DOSIMETRY CALIBRATION LABORATORY*

Allegheny Singer Research Corporation
Allegheny General Hospital
320 East North Avenue
Pittsburgh, PA 15212-9986

REPORT OF ADCL CALIBRATION

Report No.: 6

No. of Pages: 9

Date: October 12, 1983

INSTRUMENTS:

Submitted by:

Dr. Mukunda K. Kartha
Department of Radiation Therapy
Camden-Clark Memorial Hospital
800 Garfield Avenue
Parkersburg, West Virginia 26102

Date Received: Aug. 18, 1983

Date Calibrated: Aug. 18, 1983

	<u>Ionization Chamber</u>	<u>Electrometer</u>
Manufacturer:	Capintec	Capintec
Model No.:	PR-06C	192
Serial No.:	0.63252	05C870
Size:	0.6 cc	
Build-up Cap:	Cobalt-60	

SERVICES PERFORMED:

- 1A Ion chamber calibration (Cobalt-60 beam).
- 2A Electrometer calibration.

*Accredited by the American Association of Physicists in Medicine
August 4, 1983

