



METHODIST
HOSPITAL
OF INDIANA, INC.



July 31, 1985

U.S. Nuclear Regulatory Commission, Region III
Materials Licensing Section
799 Roosevelt Road
Glen Ellyn, Illinois 60137

TH

Applicant	Aug 13
Check No.	0 34 84 2
Amount/Fee Category	2350
Type of Fee	1A Reg
Date Check Rec'd	8/12/85
Received By	CP

Gentlemen:

Please renew our byproduct materials license number 13-02063-02 (Teletherapy). The following information is provided in support of this request:

Item 1: Renewal of License No. 13-02063-02

Item 1a: Newell O. Pugh, Jr., M.D.
David B. Ross, M.D.
Peter Garrett, M.D.

Training and experience are currently on file with license No. 13-02063-02

Item 2: Methodist Hospital of Indiana, Inc.
1604 North Capitol Avenue
Indianapolis, IN 46202

Item 3: Same as 1a.

Item 4: Robert T. Anger Jr., M.S.
317-929-3572

Item 5a: Cobalt-60
Teletherapy Sealed Sources
(AECL Model C-146 or C-151)
14,320 Curies (2 sources if not more than 7,160 Curies each)

Item 5b: AECL Theratron 780 teletherapy unit

Item 6: Treatment of Humans

Item 7b: Robert T. Anger, Jr., M.S.

Training and experience currently on file with license numbers 13-02063-1 and 13-02063-02

Item 8: We will follow the procedure proposed in Appendix H to the REGION III guide (Task TM 608-4, March 82).

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Item 9b: The patient is continually viewed using a T.V. monitor and a leaded glass window.

Item 9d: There are no electrical or mechanical beam stops that restrict beam orientation.

Item 10a: The structure, function, and meeting frequency of the Medical Isotopes Committee (Radiation Safety Committee) will follow Appendix A to the draft guide (Task TM 608-4, March 1982).

Item 10b: Our ALARA program follows the procedure proposed in Appendix I of the draft guide (Task TM 608-4, 1982).

Item 10c: There are three (3) Ludlum Model 140 GM survey meters and one (1) Victoreen Model 660 Digital Radiation Survey Meter with a 660-5 probe.

A Keithley 35020 electrometer with a .6cc Capintec probe is used for routine monthly output checks. This system is checked against a Keithley 35025 electrometer with a .6cc Nuclear Enterprise probe that is calibrated every two (2) years by an accredited regional calibration laboratory.

Item 10d: Survey meters are calibrated at least annually at the Syncor, Inc. Indianapolis facility using a source and procedures approved under license no. 13-19229-01 MD.

The proper functioning of the beam-on monitor is verified on a daily basis initially before treating patients. This is accomplished by radiating for a specified geometry and time a device containing two diodes imbedded in plastic where one diode is at the radiation field center and the other diode is near the edge of the radiation field. The reading obtained from each diode and the ratio of these values must fall within specified limits to verify that the Cobalt-60 source has come into the treatment position. While this test is being conducted the operator also notes that the beam-on monitor is indicating properly and documents this in a log book.

Item 10e: Whole body badges from Landauer and TLD wrist badges from Eberline Corporation are worn by all appropriate personnel and are changed monthly.

Item 10f: Semi-annual leak testing of the Co-60 unit is performed by a staff radiation physicist. Q-tips dipped in alcohol are used to wipe the exterior of the head and the exterior and interior surfaces of the collimator. The wipes are assayed using a calibrated NaI(Tl) crystal and Canberra Model 30 multichannel analyzer. The minimum detectable activity for this system for Co-60 is .001uCi.

U. S. Nuclear Regulatory Commission

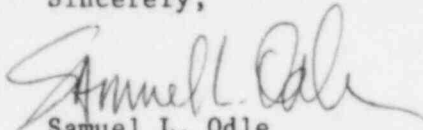
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Item 10g: Emergency Procedures enclosed.

Enclosed is a check for \$350.00 as required by 10CFR Part 170. If you have any questions regarding the above information, please let us know.

Sincerely,

A handwritten signature in dark ink, appearing to read "Samuel L. Odle". The signature is fluid and cursive, with the first name "Samuel" being more prominent and the last name "Odle" following in a similar style.

Samuel L. Odle
Vice President

SLO/lm

enclosures

4/9/85

EMERGENCY OPERATING PROCEDURES

IN THE EVENT THE SOURCE DOES NOT RETURN TO THE "OFF" POSITION:

1. ENTER COLBALT ROOM TO REMOVE PATIENT.
2. AVOID PRIMARY BEAM AT ALL TIMES.
3. IF PATIENT IS AMBULATORY, INSTRUCT PATIENT TO GET OFF TREATMENT TABLE AND LEAVE ROOM.
4. IF PATIENT IS NOT AMBULATORY, MOVE PATIENT OUT OF LEAM AND FROM TREATMENT ROOM. AVOID BEAM AT ALL TIMES.
5. LOCK DOOR AND KEEP LOCKED UNTIL AUTHORIZED PERSONNEL ARE ON HAND TO CORRECT PROBLEM.
6. INFORM:
 1. RONALD BERG, PHYSICIST 359-6310
 2. JOHN KENT, PHYSICIST 257-3190
 3. BOB ANGER, PHYSICIST 253-0443
 4. NEWELL O. PUGH, M.D. 251-4763
 5. PETER GARRETT, M.D. 849-8787
 6. DAVID ROSS, M.D. 844-5789
 7. MIDWEST THERAPY SERVICES 312-740-0160