



**Baystate
Medical
Center**

Springfield Hospital Weston Medical Hospital ~~Weston~~ Women's Hospital
Office of the President

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Patricia Vacca
License Management Branch
Division of Fuel Cycle and Material Safety
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Renewal Application for Broad License: 20-01412-05
Baystate Medical Center
759 Chestnut Street
Springfield, Mass. 01107

Reference: Our Application dated April 26, 1979.
Your Control NO. 99661 dated May 1, 1979.

Dear Ms. Vacca:

In order to achieve full compliance with requirements of renewal of our above Broad license, several actions have been taken immediately following our initial application dated April 26, 1979. At the time of our initial application information given in certain items was lacking in sufficient detail. However, at this time we have completed the proposed projects and the supplementary information is available for your review.

The supplementary information and related items of our initial application dated April 26, 1979 are given below.

Item #6a: Radioactive Material for Medical Use.

Addition of Depleted Uranium (450 lbs.) used in Clinac-4 shielding. Refer to our letter dated February 14, 1980 to Mr. Michael Lamostra (NRC). Attachment #1

New imaging systems (Two Large Field of View Gamma Cameras and a Nuclear Medicine computer) were added in 1979. Refer to items 9a and 9b. The anticipated increase in nuclear cardiac imaging will require an increase in present possession limit on Mo-99 - Tc99m generators. Therefore, we request you to increase our limit from 7,000 mCi to 10,000 mCi for Mo-99 and Tc99m isotopes.

XA Copy Has Been Sent to PDR

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Item #6b: Location of Calibration Laboratory.

Calibration Laboratory is located on Main 4-East at SH-WW Unit, 759 Chestnut Street, Springfield, Mass. 01107. A mini-spot check laboratory is located on D-Floor at WM Unit, 140 High Street, Springfield, Mass. 01105. A floor plan of the main laboratory located at SH-WW Unit is attached. The floor plan also shows the location of adjacent office of Medical Physics & Radiation Safety and office of Radiation Safety Officer.

The surrounding areas are identified. Attachment #2

The safety precautions that will be followed during actual use of Cs-137 (100 mCi as of July, 1975) are given in our previous communications dated March 11, 1975 and May 2, 1975. Refer to our Amendment #2 dated May 2, 1975 signed by Dr. Leo Wade, Jr.

The radiation levels in the surrounding areas will be maintained at $2mR/hr$ or less.

The orientation and use of Cs-137 standard will be in compliance with ALARA policy established by BMC. If required protective devices such as lead aprons will be provided. All persons using Cs-137 standard will be monitored for personnel exposure.

The survey meter calibration procedures given in Appendix D, Section I in Regulatory Guide 10-8 will be followed.

Item #7d: Equivalent Duties of Director, Medical Physics & Radiation Safety - Section 3.

A copy of the Equivalent Duties is enclosed. Attachment #3

Item #8: Training and Experience: Supplement A for RSO.

Refer to our letter dated February 16, 1979 signed by Harry C.F. Gifford, President of Baystate Medical Center. Our amendment #10 dated April 25, 1979 signed by Patricia Vacca.

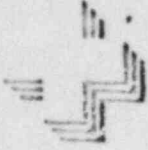
Item #9a: SH-WW Unit: Instrumentation - Diagnostic.

A Picker 4/15 Large field of view Gamma Camera was installed in July, 1979.

A Nuclear Medicine Computer Gamma-11 was installed in December, 1979.

Item #9b: WM Unit: Instrumentation - Diagnostic.

A Searle large field of view Gamma Camera was installed in October, 1979.



Item #11a: Facilities of Nuclear Medicine Laboratories - SH-WW Unit and WM Unit.

At SH-WW Unit, addition of two imaging systems (see item #9a of this letter) resulted in certain changes in the use of available space. Room #4 is used for Pho-Gamma-HP Camera. Room #6 is used for Picker 2c gamma camera. Prior to arrival of new imaging systems, area #7 was used for in-patient waiting area. At this time plans are under way to renovate Room #3 (formerly Dr. Brahmavar's office) and Room #2 to accommodate waiting in-patients, out-patients and reception area for the division secretary. Attachment #4.

At WM Unit, the available space has been utilized to install the new imaging system.

A detailed analysis of required minimum space based on ALARA policy has been made. The attachments show the present status of efforts to acquire more space for nuclear medicine laboratories to maintain personnel exposures ALARA. Attachment #5

Item #11b: Facilities for Radiation Safety Operations - SH-WW Unit and WM Unit.

The enclosed details supersede all the previous information submitted with our initial application dated April 26, 1979.

The enclosed details of the Division of Medical Physics & Radiation Safety include

- a) Organization and Staff, and
- b) Facilities and Services.

Attachment #6

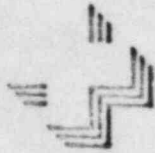
Item #18: Waste Disposal.

In response to IE Bulletin 79-19 dated August 10, 1979 new procedures of radioactive waste disposal were developed at BMC. A copy of this response sent to Mr. Boyce H. Grier (dated September 7, 1979) is attached. Attachment #7

Item #23: Sealed Sources and Calibration of Survey Meters.

Refer to Item #6b of this letter.

In response to your circular dated September 28, 1979 we have prepared all the required documents to comply with ALARA policy that goes into effect March 4, 1980. A copy of our previous letter dated December 7, 1979 to Mr. William J. Dircks is enclosed. Attachment #8

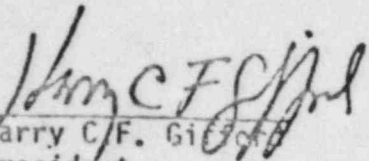


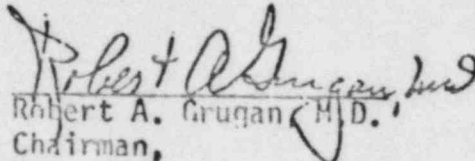
We sincerely hope that all these documents will speed up the renewal of our Broad License #20-01412-05, which expired on May 31, 1979.

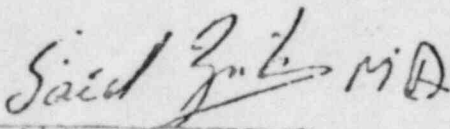
If you have any questions, please call Dr. Suresh M. Brahmavar.

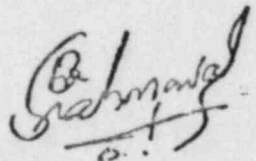
Thank you.

Sincerely,


Harry C.F. Gilford
President,
Baystate Medical Center


Robert A. Grugan, M.D.
Chairman,
Department of Radiology


Said M. Zu'bi, M.D.
Chairman,
Radiation Safety Committee


Suresh M. Brahmavar, Ph.D.
Director,
Medical Physics & Radiation Safety
Radiation Safety Officer

Attachments: #1 through 8

Copies to: Nuclear Regulatory Commission, Region I Letter and Attachments
631 Park Avenue
King of Prussia, Pa. 19406

Gerald A. Kerriqan, M.D.
Signatories

Letter only

SMB/lp