Brockton Hospital We Care for Southeasterr Massachusetts



680 Centre Street Brockton Massachusetts 02402

617-586-2600

September 5, 1986

Dr. John Glenn U.S. Nuclear Regulatory Commission Nuclear Materials & Safeguard Branch, Region I King of Prussia, Pennsylvania 19406

RECCIVED

Dear Dr. Glenn:

WH/b

Date Completed

By:

'86 SEP 22 A9:46

This letter is to request admendment of NRC license #20-03333-02 issued to the Brockton Hospital to include the following:

- Increase the possession limit of Group III of Schedule A, Section 35,100 of 10 CFR 35 from 2 curies each of byproduct material authorized in Subitem 6B to 3 curies each of byproduct material authorized in Subitem 6B, to provide a large enough maximum possession limit for decay in storage of old generators.
- Add the use of the Nuclear Instrument Company, 65 Grove St., Rockland, Massachusetts, NRC license #21-16972-01 for calibration of survey instruments per attached.
- 3. Add the use of Siemens Gammasonics, Inc., 2000 Nuclear Drive, Des Plaines, Illinois, 60018, NRC licence #12-00369-01 to perform counting of the leak tests on the sealed calibration sources.
- 4. It has been determined that the efficiency of the thin end window GM Survey meter (Eberline E-120 with a HP-19A probe) is not sensitive enough to properly distinguish a reading of 200 dpm/100 cm² as required by Appendix I of Regulatory Guide 10.8. Therefore, we request to use the recommended action levels for Removable Surface Contamination in Medical Institutions contained in Regulatory Guide 8.23, Table 2, page 8.23-8 (Radiation Safety Survey at Medical Institutions). In addition we request to increase the wipe test area to cover 1000 cm². This will allow us to be able to properly distinguish a contamination level of 220,000 dpm/1000 cm².

If you require any additional data it will be sent to you immediately.

8702040682 861028 REG1 LIC30 20-03333-02 PDR

Sincerely,

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"OFFICIAL RECORD COPY"

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Check appr	opriate items.
X 1.	Survey instruments will be calibrated at least annually and following repair.
X 2	Calibration will be and
	Calibration will be performed at two points on each scale used for radiation protection purposes, i.e., at le
	- Jordon purposes, i.e., at le
	The two points will be approximately 1/3 and 2/3 of full scale. A survey instrument may be considered prochecked. Readings within + 20 are within + 10 percent of the calculated or handless.
	calibrated when the instrument readings are within + 10 percent of the calculated or known values for each is prepared, attached to the instrument, and used to interpret readings to within + 10 percent. Also, when he scales are not checked or calibrated, an appropriate precautionary note will be posted on the instrument.
3.	Survey instruments will be calibrated
	a. By the manufacturer
	b At the licensee's facility
-	(1) Calibration source
	Manufacturer's name
	Model no. Activity in millicuries
	10
	Exposure rate at a specified distance
	Accuracy
	Traceability to primary standard
	(2) The calibration procedures in Section I of Appendix D will be used
	(3) The step-by-step procedures, including radiation safety procedures, are attached.
c.	by a consultant or outside firm
	(I) Name Nuclear Instrument Company
	(2) Location 65 Grove Street, Rockland, Massachusetts
	(3) Procedures and sources
	X have been approved by NRC and are on file in License No. 20-16972-01
	have been approved by an Agreement State; a copy of the Agreement State license, the procedures, and a description of the sources are attached, and the consultant's report will contain the information on
	the attached "Certificate of Instrument Calibration." the consultant's reporting form as attached.
	are described in the attachment, and the consultant's report will contain the information on
	the attached "Court on the information on
.,	the attached "Certificate of Instrument Calibration.": the consultant's reporting form as attached.

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BETWEEN: William O. Miller, Chief License Fee Management Branch Office of Administration

> John E. Glenn, Chief Nuclear Materials Section B Division of Engineering and Technical Programs

LICENSE FEE TRANSMITTAL

Α.	REGI	ON I		
	1.	APPLICATION ATTACHED	2	ht 11
		Applicant/Licensee:	Duc	Klon Hosp.
		Application Dated:		9-5-86
		Control No.:	1	.06151
		License No.:	2	0-03333-02
	2.	FEE ATTACHED		
		Amount: #120		
		Check No.: 161392	_	
	3.	COMMENTS		
			Cianad	SIT
			Signed	0.10.00
			Date	9-17-86
В.	LICE	NSE FEE MANAGEMENT BRANCH		
	1.	Fee Category and Amount:	7c	\$120
	processed for:			
		Amendment	_	
		Renewal	_	
		License	_	0 11 *
			Signed	& Combales
				9/21/14
			Date	9/24/86

REGION I FORM 213 (MARCH 1983)