

DEPARTMENT OF RADIATION ONCOLOGY

CAMDEN-CLARK MEMORIAL HOSPITAL

800 GARFIELD AVENUE

P.O. BOX 718

PARKERSBURG, WEST VIRGINIA 26102

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Radiation Oncologist

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Radiation Oncologist

MUKUND K. KARTHA, Ph.D.
Medical Physicist

June 27, 1985

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

Attn: Ms. Patricia Whiston
Material Licensing Section

Dear Ms. Whiston;

Ref.: NRC License No. 34-C6002-01

Your letter dated May 17, 1985 was referred to me for proper response. Please be informed of the following item-by-item explanations of the three (3) points you have raised in your letter.

1. Any further request to possess Groups IV and V materials shall be deferred until a physician with proper training and experience join the medical staff of Holzer Medical Center, Gallipolis, Ohio.
2. The Victoreen-Nuclear Associates Model 64-773 Gamma Survey Instrument Calibrator with Technical Operations Model 773 Cesium-137 sealed source we requested is for the calibration of the survey meters. A copy of the catalogue showing this calibrator is attaches as Exhibit A.
3. For Group VI Holzer Medical Center currently requires authorization ONLY for storage and not use, since no qualified user is affiliated with the Medical Center at the present time. However, Holzer Medical Center is planning a complete radiation Oncology Department and has submitted to the State of Ohio the proper CON for its approval. On approval by the State fully qualified Radiation Oncologists will be added to the medical staff, at which time we would request for your authorization to use these sources.

Currently the brachytherapy sources in storage are 3M Company's Model 6H6E-LI Heyman afterloading sources, numbering 10, 25 mCi Cs-137 each acquired in April 1978, as shown in the copy of the certification attached as exhibit B. These sources are stored in the standard lead shielded Heyman source container supplied by the manufacturer, in a steel safe in the basement of the Holzer Medical Center, with very limited access. Since the sources are not routinely used no inventory is maintained, except for the head count I make when performing leak tests at six month intervals.

The preceeding information is being submitted in response to NRC letter on this topic and not a request for amendment.

RECEIVED BY LFMB

Date: Aug 11/85

Loc: 3P/2/85

By: C. P. P.

Orig To: R. P. P.

Action: Cont. C. P. P.

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8509160049 850905
REG 3 LIC 30
34-06002-01 PDR

add info
FEE EXEMPT

CONTROL NO. 7 9512

1 AUG 5 1985

Hope the additional information provided in the preceeding completes the requirements to complete the file in connection with the request for renewal of the Holzer Medical Center's material License No. 34-06002-01, submitted on November 26, 1984. In case you have any further questions please contact me at the above office telephone number Mondays through Thursdays.

Sincerely

Mukund K Kartha, Ph.D.

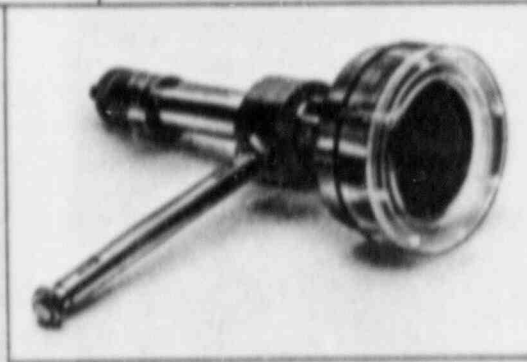
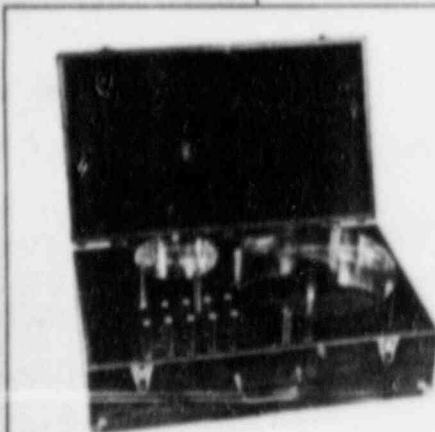
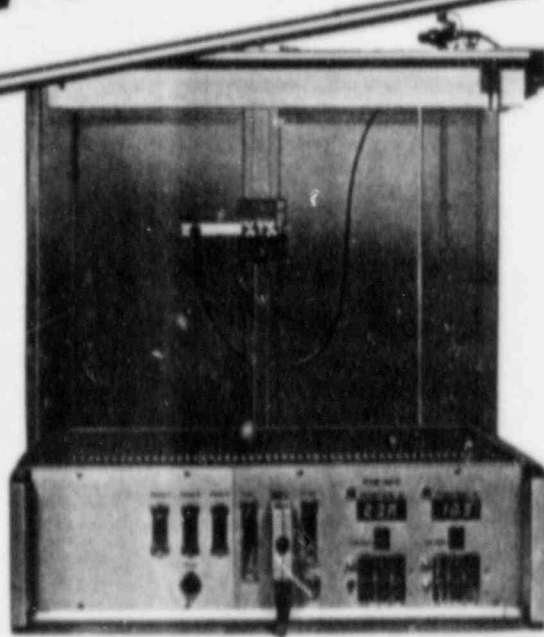
Mukund K. Kartha, Ph.D.
Medical Physics Consultant
Holzer Medical Center
Gallipolis, Ohio

cc: Mr. Charles I. Adkins, Jr., Chief Executive Officer, Holzer Medical Center
Dr. Saied M. K. Hojat, Chairman, Medical Isotope Committee, Holzer Med. Center

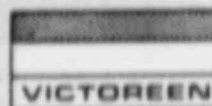
FEE EXEMPT

RADIATION THERAPY

SUPPLEMENT TO CATALOG T



NUCLEAR ASSOCIATES



A Division of VICTOREEN, INC.
100 VICE ROAD
CARLE PLACE, NY 11514-1593
(516) 741-6360
A Subsidiary of Shelter-Globe **GG**

IONIZATION CHAMBER CHECK SOURCE



Source/ Shield
in carrying case



Overhead view of Check Source
showing ion chamber inserted

- "Transfer Value" provided* when instrument is calibrated.
- Checks any ion chamber up to 0.48" D. and 0.7" active length.
- Shutter mechanism centers chamber automatically. Assures reproducible geometry.
- Simple operation. Measurements take only seconds.

The performance of therapy dose or dose-rate measuring instruments should be checked constantly. Typically, the department's teletherapy system is used for this, but it is satisfactory only if the source and instruments are set up in a precise geometry. The Ion Chamber Check Source eliminates the need for such tedious and possibly inaccurate measurements.

Compatible with most ion chambers (PTW, Farmer, Victoreen, Capintec, etc.). Can be sent to N.B.S. or a Regional Calibration Laboratory with your ion chamber and electrometer. With the calibration certificate, they also provide a dose or dose rate value of the check source with your dosimetry system.

Consists of a cast iron and aluminum shield with an annular ^{90}Sr - ^{90}Y sealed source. When two spring-mounted flanges are squeezed, the shutter opens to accept an ion chamber for calibration. As the pressure is released, the shutter closes and clamps the chamber in position. Its active area is automatically centered in the well, assuring reproducible geometry. The source is always shielded, even during measurement. Surface radiation levels are equivalent to background.

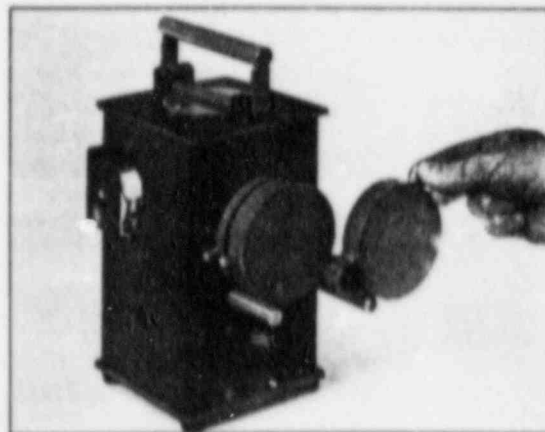
4" high x 3" D., with 1 1/4" steel jacket. Accepts chambers up to 0.48" D. and 0.7" active length. Uncalibrated, annular ^{90}Sr - ^{90}Y source, 900 μCi (license is required). Screw-on cap protects shutter. Carrying case included. Weighs 6 lbs.

30-6571 Ion Chamber Check Source (PTW-09) \$1100.00

*By N.B.S. or Regional Calibration Laboratory.

†N.R.C. (or Agreement State) license is required. When applying, please designate the source as Model PTW-09. A copy of your license must accompany your order.

GAMMA SURVEY INSTRUMENT CALIBRATOR



Calibrator with one attenuator removed from radiation path.

- Self-contained ^{137}Cs source.
- Calibrates instruments with ranges up to 2000 mR/hr. Calibration traceable to NBS.
- Attenuators eliminate repositioning for different scale measurements.

This sturdy, easy-to-use device allows users of dosage-measuring equipment to perform routine checks at will or as necessary to meet the regulations of the N.R.C. and Agreement States. The simple, fool-proof system eliminates the expense, inconvenience and work-time lost when sending such instruments to an outside calibration service.

The heavy-duty lead container holds about 165 mCi of ^{137}Cs encapsulated at one end of a control rod. Since ^{137}Cs has a long half-life (30 yrs.), there is no need to calculate a correction factor for at least 1 or 2 years after the instrument is shipped.

The source is kept in either of 2 positions: stored or exposed. In the fully-shielded "stored" position, radiation at the container's surface is less than 200 mR/hr; at 1 meter away it is less than 10 mR/hr. In the "exposed" position, the source faces a 36" (horizontal) x 20" (vertical) port at the shield's side. The radiation field can be varied by means of three built-in attenuators (transmission factors 0.25, 0.10 and 0.10). These permit calibration of three meter scales, each at 20% and 80% of full scale, using only one source-to-meter distance measurement. The source is moved from "stored" to "exposed" merely by raising the control rod. For safety, the ^{137}Cs source cannot be removed from its shield except by the manufacturer.

A built-in tape measure helps determine the distance from the ^{137}Cs source to the instrument being calibrated. A padlock (not included) prevents unauthorized use of the equipment. Convenient carrying handle, 5" square x 8 1/2" high. 52 lbs.

64-773 Gamma Survey Instrument Calibrator* \$2015.00

*An N.R.C. or Agreement State license is required. When applying, please designate the source as Technical Operations Model 773. A copy of your license must accompany order.


Nuclear Products
3M
 COMPANY

TCAAP 590, NEW BRIGHTON, MINNESOTA 55112

 HOLZER MEDICAL CENTER
 Gallipolis, OH 45631

 3M KM 06553
 PO 32056

CERTIFICATION

The following radioactive sources are certified by Minnesota Mining and Manufacturing Company to have been subjected to the tests described below and to have given the results listed.

<u>Model Number</u>	<u>Serial Number</u>	<u>Nominal mg. Ra. eq.</u>	<u>3M Assay* mg. Ra. eq.</u>	<u>Nominal mCi Cs-137</u>
6H6E-LI	0415	10	11.1	25
	0416		11.4	
	0417		11.0	
	0421		11.1	
	0422		11.5	
6H6E-LI	0423	10	11.3	25
	0427		11.0	
	0431		11.0	
	0437		11.0	
	0464		10.9	

111.3 mg Ra eq
 \$4010.⁰⁰
 1984 - 9.69 mg Rae.
 corrected 10.59 "

Pursuant to our distribution license, Model 6D6C sources require leak testing at a maximum interval of three (3) years.

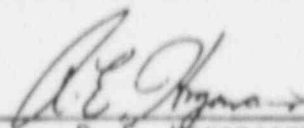
*0.5 mm Platinum Filtration. Assay is accomplished using a Nuclear Chicago Mediac system with a 4π ionization chamber.

Wipe Test, each: <0.0001 μCi removable activity
 Soak Test, each: <0.0005 μCi removable activity
 Leak Test, each (immersion): Negative

3M Print Number: C-1921-1601, Issue K
 Special Form: Requirements met

No other certification is to be implied.

Q.C. Supervisor


 R. E. Hogancamp

20 Apr 78

Date

CONTROL NO. 7 9512