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Waterville Osteopathic Hospital *m4*

SINCE 1943 - OVER 30 YEARS OF MEDICAL SERVICE TO CENTRAL MAINE

KENNEDY MEMORIAL DRIVE • WATERVILLE, MAINE 04901 • 207/873-0731

RICHARD E. CLARK
EXEC VICE-PRESIDENT

5 January 1979

Mr. Joseph DelMedico
License Management Branch
Division of Fuel Cycle and Material
Safety
Nuclear Regulatory Commission
Washington, D.C. 20555

RE: License No. 18-15503-01
Control No. 93875

Dear Mr. Del Medico:

In reply to your communication of November 1, 1978 addressed to Robert W. Palmer, Jr., President of the Waterville Osteopathic Hospital and in reference to our application for renewal of byproduct material license No. 18-15503-01 dated March 28, 1978, we would like to submit the following information.

1. The firm that we use for calibration of the dose calibrator is Jasins and Sayles Associates Inc., 908 Concord Street, Framingham, Ma. NRC license No. 20-16852-01. A copy of the results of their recent calibration of our dose calibrator is attached indicating their step by step procedures.

In addition to this commercial service, the dose calibrator will be checked for constancy on a daily basis according to the method specified in Appendix D, Section II, Item C-1 and C-2 utilizing [137 CS 200 uCi], [57 CO 5 mCi] and [60 CO 50 uCi] as a reference source.

The Hospital administrator, Mr. Richard Clark, has been specified as a member of the Medical Isotopes Committee. Additional members of the Isotope Committee are George W. Draper, Jr., D.O., certified radiologist, Boyd B. Button, D.O., pathologist and Gary Robinson, D.O., internist. Qualifications of the latter three (3) individuals have been specified in our previous license application.

3. Reference to Appendix F was a typographical error. The procedures for ordering and receiving radioactive material as specified in Appendix E have been and will be scrupulously followed. We submit a copy of this from our procedure book.

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4. All new clerical, nursing, housekeeping and security personnel are informed at regular intervals at In Service Educational Seminars about radiation hazards and appropriate precautions. Any new personnel which in any way may be involved with patient testing, or come into contact with radioactive material or may be in the Nuclear Medicine Laboratory area, are instructed at the time of their initial employment.

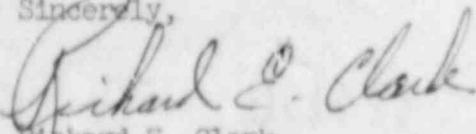
5. In regard to Item 5, liquid iodine 131 is not used at this institution, and will not be used in this institution for therapeutic purposes. We therefore wish to omit this item from our license.

6. The equilibrium bag portion of the disposable xenon 133 rebreathing system will be shielded in a lead lined container during the imaging procedures.

7. In regard to the use of our xenon gas trap, periodic surveys of our trap effluent will be made by collecting the effluent in a plastic bag and monitoring it for any evidence of radioactivity.

Saturated charcoal filters will be safely stored behind lead shielding until it is determined that there is no evidence of radioactivity present.

Sincerely,



Richard E. Clark
Executive Vice-President

CERTIFICATE OF CALIBRATION
DOSE CALIBRATOR

Hospital: Osteopathic Hospital, Waterville

Instrument Location: Hot Lab

Manufacturer of Instrument: Capintec Model & Serial # CRC-6A
62685

Sources Used in Calibration:

- | | | |
|----------------------|--------------------------------|--|
| 1. ^{57}Co | 5.2 millicuries
$\pm 4.6\%$ | Source Serial #319-135-33 (NES-206)
Effective Date: December 28, 1977 |
| 2. ^{57}Co | 5 millicuries
$\pm 4.6\%$ | Source Serial #231-259-7 (NES-206)
Effective Date: October 12, 1976 |
| 3. ^{57}Co | 285 microcuries
$\pm 4.3\%$ | Source Serial #294-092-3 (NES-351)
Effective Date: December 14, 1976 |
| 4. ^{137}Cs | 203 microcuries
$\pm 4.3\%$ | Source Serial #231-234-22 (NES-356)
Effective Date: October 24, 1976 |
| 5. ^{60}Co | 52 microcuries
$\pm 4.0\%$ | Source Serial #231-262-8 (NES-354)
Effective Date: October 13, 1976 |

Calculated Activity at Time of Calibration:

Date <u>December 12, 1978</u>	3. ^{57}Co <u>41.61 uci</u>
1. ^{57}Co <u>2.10 mci</u>	4. ^{137}Cs <u>194 uci</u>
2. ^{57}Co <u>645 uci</u>	5. ^{60}Co <u>39.52 uci</u>
	6. ^{57}Co <u>9.72 mci</u>

The Responses of the Dose Calibrator under Test against the Standards Listed:

1. ^{57}Co <u>2.12 mci</u>	4. ^{137}Cs <u>193 uci</u>
2. ^{57}Co <u>650 uci</u>	5. ^{60}Co <u>40.1 uci</u>
3. ^{57}Co <u>42.1 uci</u>	6. ^{57}Co <u>9.69 mci</u>

Electronic calibration or repair performed, if any: _____

The above calibration or repair was performed to Manufacturers' Specifications.

Jerry L. Hall
Jerry L. Hall
NRC License #20-16852-01
Expiration Date: August 31, 1981

JAS

JASINS & SAYLES ASSOCIATES, INC.
15 MERCER ROAD, NATICK, MASS. 01760
(617) 655-4931

APPENDIX E

PROCEDURES FOR ORDERING AND RECEIVING RADIOACTIVE MATERIAL

1. The Chief Nuclear Medicine Technologist will place all orders for radioactive material and will ensure that the requested materials and quantities are authorized by the license and that possession limits are not exceeded.
2. During normal working hours, carriers will be instructed to deliver radioactive packages directly to the Nuclear Medicine Department.
3. During off-duty hours, security personnel will accept delivery of radioactive packages in accordance with the procedures outline in Mr. Richard E. Clark's memorandum (attached).

Item No. 13

Date: _____

MEMORANDUM FOR: Security Personnel

FROM: Richard E. Clark, Administrator

SUBJECT: RECEIPT OF PACKAGES CONTAINING RADIOACTIVE MATERIAL

Any package containing radioactive materials that arrive between 4:30 P.M. and 7:00 A.M. or on Sundays shall be signed for by the Security guard on duty and taken immediately to the Nuclear Medicine Department. Unlock the door, place the package on top of the counter immediately to the right of the door, and relock the door.

If the package is wet or appears to be damaged, immediately contact the hospital Radiation Safety Officer. Ask the carrier to remain at the hospital until it can be determined that neither he nor the delivery vehicle is contaminated.

RADIATION SAFETY OFFICER: George W. Draper, Jr., D.O.
OFFICE PHONE: 873-0731 ext. 268
HOME PHONE: 873-3858

Item No. 13

Date: _____