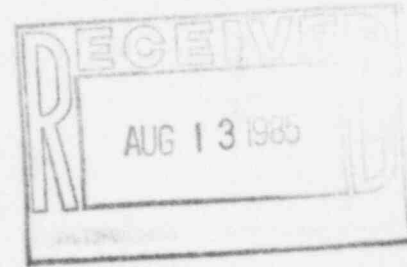


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August 7, 1985



Mr. Jack Whitten
Nuclear Materials Safety Section
U.S.M.R.C., Region IV
611 Ryan Plaza Dr., Suite 1000
Arlington, Texas 76011

RE: License renewal, Missoula Community Hospital, control #60304

Dear Mr. Whitten:

The following is in response to the four items addressed in your letter (6/13/85) regarding the renewal of our radioactive materials license.

ITEM # 1.

Request for authorization to receive radiopharmaceuticals from St Patrick Hospital (license #25-16773-02). Please accept this as a formal request to receive the following radiopharmaceuticals from St Patrick Hospital:

- a maximum of 400 microcuries/day, I-123
- a maximum of 200 mCi/day, Tc-99m
- a maximum of 1 mCi/day, I-131 diagnostic capsules
- a maximum of 20 mCi/day, I-131 for hyperthyroid therapy
- a maximum of 12 mCi/day, Ga67

Please refer to item #4 addressed below regarding the specific procedure to be followed.

ITEM #2

Instruction of radiation workers: New employees (radiation workers) are given a formal inservice regarding the radiation safety program as it relates to their specific duties. In addition, at least annually all radiation workers receive informal, as well as formal instruction. The formal seminars will be documented and will cover all applicable radiation safety issues (i.e., recordkeeping, inspections, disposal, time/distance/shielding/monitoring, etc.).

ITEM #3

Radiation instructions to ancillary personnel: Ancillary personnel are instructed as to the meaning of the "designated radiation area" signs. They are also instructed on areas that are "off-limits". Continuing education will occur on a formal basis annually in conjunction with the radiation workers. However, due to time/labor constraints, only a representative group will be able to attend the meetings. Given our specific situation, it is extremely unlikely that any ancillary personnel would receive $\frac{1}{4}$ their M.P.D.

ITEM #4

Procedures for the receipt/disposal of radioactive materials: Please refer to attachments: "Appendix J - Waste Disposal"
"Radioactive Shipment Receipt Report"

Procedures for ordering, receipt of materials in off-duty hours, and notification of responsible personnel:

(continued)

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ORDERING

Authorized individuals alone may order radioisotopes via submission of appropriately executed order forms to the Radiation Safety Officer. Prior to such ordering, such individuals must have received approval to do so from RSO

The Radiation Safety Officer or his designate will approve and log all orders for radioisotopes to insure compliance with possession limits.

The Radiation Safety Officer or his designated representative will monitor receipt of all isotopes, recording date of receipt, isotope, chemical form, and designated quantity of radioactivity. The packaging materials will be examined as described below and the radioisotope transferred into the separate isotope room (limited access by key). The keys for these locked storage areas will be kept by the RSO and/or his designated representative.

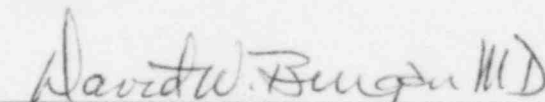
RECEIPT OF RADIOISOTOPES DURING NON-DUTY HOURS

We do not anticipate receipt of radioisotopes during non-duty hours. However, should such occur, the RSO will be notified and he or his designate will supervise thereceipt of the shipment.

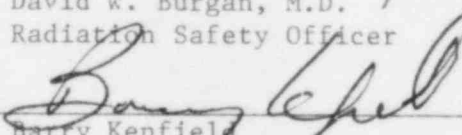
Radiation levels in allunrestricted areas will not exceed 2 millirems per hour or a total of 100 millirems over seven continuous days because 1) radioisotopes in transit will be appropriately shielded per NRC regulations, and 2) following receipt, all radioisotopes will be stored in a restricted raea in shielded containers.

PROCEDURES FOR EXAMINING INCOMING PACKAGES CONTAINING RADIOISOTOPES

Packages will be examined as soon as practicable after receipt. The Radiation Safety Officer and/or a designated representative will perform this inspection. The inspecting individual will don disposable gloves and open the packaging in the radioisotope labe. The packing slip will be removed and used to verify that contents agree in name and quantity with the packing slip. Careful visual inspection will be made in the receipt log as described above. In the event of contamination, the RSO and the vendor's customer service department will be notified immediately.



David W. Burgan, M.D.
Radiation Safety Officer


Barry Kenfield
Assistant Executive Director

RADIOACTIVE SHIPMENT RECEIPT REPORT

1. P.O. No.: _____ Survey Date _____ Time _____
Surveyor _____
2. CONDITION OF PACKAGE:
_____ O.K. _____ Punctured _____ Status _____ Wet
_____ Crushed _____ Other _____
3. RADIATION UNITS OF LABEL: _____ Units (mR/hr)
4. MEASURED RADIATION LEVELS:
a. Package surface _____ mR/hr
b. 3 feet or 1 meter from surface _____ mR/hr
5. DO PACKING SLIP AND VIAL CONTENTS AGREE?
a. Radionuclide _____ yes _____ no, difference _____
b. Amount _____ yes _____ no, difference _____
c. Chem Form _____ yes _____ no, difference _____
6. WIPE RESULTS FROM:
a. Outer _____ CPM = _____ DPM
eff = ()
b. Final source container _____ CPM = _____ DPM
eff = ()
8. SURVEY RESULTS OF PACKING MATERIAL AND CARTONS _____ mR/hr, CPM
9. DISPOSITION OF PACKAGE AFTER INSPECTION _____
10. IF NRC/CARRIER NOTIFICATION REQUIRED, GIVE TIME, DATE, AND PERSONS NOTIFIED.

Signature

Date

If package is damaged or exposure rates exceed label limits (DOT), notify:

Dr. Burgan 728-4100 Ext 5203 work phone
Answering service 543-5111 home phone

Isolate/confine package and contents and await decontamination procedures from the RSO.

APPENDIX J

WASTE DISPOSAL

Note: In view of the recent problems with shallow-land burial sites used by commercial waste disposal firms, NRC is encouraging its licensees to reduce the volume of wastes sent to these facilities. Important steps in volume reduction are to segregate radioactive from nonradioactive waste, to hold short-lived radioactive waste for decay in storage, and to release certain materials in the sanitary sewer in accordance with § 20.303 of 10 CFR Part 20.

1. Liquid waste will be disposed of (check as appropriate)

☒ In the sanitary sewer system in accordance with § 20.303 of 10 CFR Part 20.

☐ By commercial waste disposal service (see also Item 4 below).

☐ Other (specify): _____

2. Mo-99/Tc-99m generators will be (check as appropriate)

☐ Returned to the manufacturer for disposal.

☐ Held for decay* until radiation levels, as measured in a low background area with a low-level survey meter and with all shielding removed, have reached background levels. All radiation labels will be removed or obliterated, and the generators will be disposed of as normal trash.**

* Be sure that waste storage areas were described in Item 11 and that they are surveyed periodically (Item 17).

** These generators may contain long-lived radioisotopic contaminants. Therefore, the generator columns will be segregated so that they may be monitored separately to ensure decay to background levels prior to disposal.

☐ Disposed of by commercial waste disposal service (see also Item 4 below).

☐ Other (specify): _____

* 3. Other solid waste will be (check as appropriate)

☒ Held for decay* until radiation levels, as measured in a low background area with a low-level survey meter and with all shielding removed, have reached background levels. All radiation labels will be removed or obliterated, and the waste will be disposed of in normal trash.

☐ Disposed of by commercial waste disposal service (see also Item 4 below).

☐ Other (specify): _____

4. The commercial waste disposal service used will be

(Name) _____ (City, State) _____

NRC/Agreement State License No. _____