

September 5, 1979

DCS
22401 FOSTER WINTER DR.
SOUTHFIELD, MI 48075

John W. Cooper, PhD.
Chief-Regional Licensing Section
License Management Branch
Division of Fuel, Cycle and Material Safety

RE: Control # 01912

Dear Dr. Cooper:

AMEND
21-18258-01
030-14135

10/31/79

The following responses hopefully will satisfy the licensing requirements.

1. Calibration of radiation survey instruments will be performed by Mr. Irving Pomish, d/b/a Michigan Nucleonics, INC.
26645 W. 12 Mile Road
Southfield, Michigan 48034
2. The dose calibrator-calibration and constancy checks will be performed using the following sources, which have been ordered through New England Nuclear:
 - a. A 5 mCi source of Cobalt-57
 - b. A 200 µCi source of CESIUM-137
3. An initial orientation program and annual refresher training will be provided, either on site or at another hospital location for personnel employed at this office.
4. At the moment, all radioactive materials are being ordered through Pharmatopes; therefore, waste disposal procedures are handled by that company. Nevertheless, if we do decide to utilize generators, I am enclosing the Appendix J Procedures.
5. Inasmuch as the previous radiation survey detector was insufficient, I have returned this, and have ordered from Atomic Products Company, the following item:

Victoreen Model #740-F, Cutiepie, measuring alpha, beta and gamma radiation. In three graduated scales, this instrument is capable of measuring 0 to 25 R/hr. Furthermore, the dose calibrator should be listed as Capintec Model # CRC-5 instead of 6.

6. Regarding area survey procedure Appendix I, inasmuch as we are currently unable to detect count rates at 100 dpm due to the lack of a well-counter, I, at this time, feel that we will be unable to comply with this requirement of 100 dpm. This should be corrected on our license, if possible.

8512030113 850909
REG3 LIC30
21-18758-02 PDR
RECEIVED BY LFI
Date SEP 24 1979
Log. Sept PG 20 III
By Brown amend
Orig. To
Action Compl. 9/27/79
Sincerely,
Henry A. Shevitz, M.D.

no fee
additional
info

HAS:p11
9/5/79

SEP 10 1979

Control No. 02241

APPENDIX C

INSTRUMENTATION

1. Survey meters

a. Manufacturer's name: VICTOREEN

Manufacturer's model number: 740-F SERIAL # 2417

Number of instruments available: 1

Minimum range: 0 mr/hr to 25 mr/hr

Maximum range: 0 mr/hr to 25000 mr/hr

25 R/hr

b. Manufacturer's name: _____

Manufacturer's model number: _____

Number of instruments available: _____

Minimum range _____ mr/hr to _____ mr/hr

Maximum range _____ mr/hr to _____ mr/hr

2. Dose calibrator

Manufacturer's name: CAPI/INTEC

Manufacturer's model number: CPC-5 SERIAL # 51220

Number of instruments available: 1

3. Diagnostic instruments

Type of Instrument

Manufacturer's
Name

Model No.

4. Other

APPENDIX J

WASTE DISPOSAL

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

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

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

☐ 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 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 disposed of as normal trash. (Note: This method of disposal may not be practical for generators containing long-lived radioactive contaminants.)

☐ 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 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) N/A (City, State) _____

NRC/Agreement State License No. _____

APPENDIX C
INSTRUMENTATION

1. Survey meters

a. Manufacturer's name: Bicron with end-window probe*
Manufacturer's model number: Surveyor
Number of instruments available: 1
Minimum range: 0 mR/hr to 0.5 mR/hr
Maximum range: 0 mR/hr to 50 mR/hr

*End-window probe specifications: gamma sensitivity- 2500 cpm/mR/hr₂
window thickness- 1.4 to 2 mg/cm²
efficiency- 30% Tc-99

10.8-21

As an alternative to our present procedure, the dose calibrator can be checked for activity linearity with the use of a device called Calicheck from Calcorp. Inc. The manufacturer's instructions for use as revised on March 2, 1982, will be followed. Test results will be recorded and retained for inspection. Corrective action as stated in our license application will be followed if unacceptable linearity is demonstrated.