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December 9, 1985
John D. Kinneman, Chief
Nuclear Materials Safety Section A
Division of Radiation Safety and Safeguards
U.S. Nuclear Regulatory Commission
Region I
631 Park Avenue
King of Prussia, Pennsylvania 19406

Docket No. 030-02940
License No. 37-00147-02

Dear Mr. Kinneman:

In order to achieve and maintain full compliance with NRC requirements and the conditions of the NRC license issued to this facility, the following corrective actions have been implemented:

- A. An inservice was given on November 21, 1985 to the individual working in the restricted area. The applicable provisions reviewed during the inservice were:

- 1) NRC 10CFR Part 19
- 2) NRC 10CFR Part 20
- 3) Conditions of the license

Documentation has been provided and is on file in the office. This inservice shall be repeated in 6 months and then annually thereafter.

- B. Leak testing of the reference sources stored in the lead brick area was performed on November 21, 1985 by Nuclear Pharmacy Inc. The results are on file in the office. Test for leakage and/or contamination shall be performed on these sources at intervals not to exceed six months.

- C1. The conditions of the license application dated August 11, 1980 require that the "Eon PSM-700 G-M Survey Meter" be calibrated annually and restrict us to utilizing the services of Wayne A. Meyers M.S. only for calibration of the instrument. Should his services not be available in the future, I am requesting use of the following calibration services in addition to those of Mr. Meyers:

- a) Nuclear Pharmacy Inc. License # NM-NPI-CS-00
Or any other facility licensed by NRC and Pennsylvania State for calibration of survey meters.
- b) The manufacturer of the instrument.

A loaner meter will be provided by Nuclear Pharmacy Inc. while the Eon PSM-700 G-M Survey Meter is being calibrated. The survey meter shall be calibrated by Wayne A. Meyers immediately and annually thereafter by any of the services listed, if met with your approval.

- C2. The Dose Calibrator shall be checked each day of use with a Cs137 reference standard and Co57 reference standard. The technologist will measure the standard and determine that the reading is within $\pm 5\%$ of the decay corrected activity for that day. Documentation of these results will be on file in the department.

C3. A linearity test of the dose calibrator was performed on November 4, 1985. The instrument performance was not within the acceptable limits of $\pm 5\%$ error. Consequently the instrument was shipped to the manufacturer immediately. Presently there are no patient studies pending and we are awaiting return of the repaired instrument. Should a Nuclear Medicine exam need to be performed prior to return of the dose calibrator, NPI will provide a dose calibrator to measure patient doses. Upon repair of the instrument the following quality control procedures shall be performed before any patient studies are scheduled:

- a) Accuracy test and annually thereafter.
- b) Geometry test
- c) Linearity test and quarterly thereafter.
- d) Constancy test performed each day of use.

C4. Area survey procedures and wipe test of areas where radioactive materials are used shall be performed at the end of each day following a Nuclear Medicine exam. The wipe test samples will be counted using the Sodium Iodide detector contained in the Picker Scanner. An efficiency determination of this instrument has been performed and the results are on file in the office. The technologist will determine that action levels have not been exceeded and document the results.

The services of a consultant in radiation safety have been implemented and shall continue to perform quarterly audits and inservice to personnel as needed or as required. The services shall continue until the next inspection and/or at the discretion of the Nuclear Regulatory Commission. The corrective action we expect to achieve from this service is outlined in the above responses.

I expect full compliance to be achieved by the end of the first quarter, 1986.

Thank you for your continued assistance and consideration.

Sincerely,


Paul S. Friedman, M.D.