UNITED STATES
ATOMIC ENERGY COMMISSION
DIRECTORATE OF REGULATORY OPERATIONS
REGION 1
631 PARK AVENUE
KING OF PRUSSIA, PENNSYLVANIA 19406

JAN 2 8 1975

H. D. Thornburg, Chief, Field Support and Enforcement Branch
Directorate of Regulatory Operations, Headquarters

INDEPENDENT MEASUREMENTS AT MAJOR RADIOISOTOPE PROCESSORS (INCLUDING POOL IRRADIATORS) TRACK ITEM F18035HO

As requested in John Davis' memo dated May 29, 1974, regarding the above subject, set forth below are inspection findings of certain measurements and observations made during the inspection.

Licensee: Ethicon Inc.

License No.: 29-02786-03

Date of Inspection: July 24-25, 1974

1. Has the licensee recognized any losses or leakage of systems used to contain radioactivity?

   No losses or leakage.

2. Describe magnitude of loss, if any.

   N/A

3. Describe licensee's procedure for control and measurement of leakage.

   a) 6 month smear testing of Co^{60} rods in pool.

   b) No detectable activity on leak test samples (< 0.005 uCi)

OFFICE ▶	CRESS					
SURNAME ▶	Davis/by JF	Nelson				38
DATE ▶	1/14/75	1/27/75				

Form AEC-318 (Rev. 9-53) AECM 0240

4. Report results of your independent measurements.

   a) Nda on wipe test performed for inspector during inspection. ($< 10^{-4}$ uCi)

   b) Nda at various sewage release points. ($< 1x10^{-7}$ uCi/ml)

   c) Pool water analyzed by inspector. ($< 2x10^{-7}$ uCi/ml)

   NOTE: Appendix B, Table II for insoluble Co^{60}
   $3x10^{-10}$ uCi/ml (air)
   $3x10^{-5}$ uCi/ml (water)

5. Report your conclusions and compare with those of the licensee.

   a) Results in agreement with licensee's findings for smear tests.

   b) It was noted at the time of the inspection, that the licensee neither utilized a low level water alarm nor analyzed his pool water. Even though the licensee has made an oral commitment to analyze his pool water, it is recommended that license conditions be added to include pool water analysis on a monthly frequency and a low level liquid alarm.

Paul R. Nelson, Chief
Radiological and Environmental
Protection Branch

cc: Ferd Dreher