



# STATE OF CONNECTICUT

DEPARTMENT OF HEALTH SERVICES

MS 18  
KO

October 1, 1985

Docket No. 030-21280  
Control No. 103979

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

Dear Sir:

In reference to your recent letter for additional information, I am providing you with the following information:

1. The licensed materials are stored in a restricted, secure building. The radiation laboratory and instrument rooms are locked when an authorized person is not present. Employees have picture badges and are not allowed to enter any areas without the permission of the supervisor. There is a security guard at the front entrance to prevent outside visitors from entering the building from 7:00 am to 11:00 pm and the entire building is protected during non-working hours by an electronic security system (Sonitrol). The Toxicology laboratory is also located in this building and requires extra security because of the large amount of narcotics that may be stored in our vaults.
2. The detection foils are never disassembled at our laboratory - all detectors are returned to the manufacturer for refoiling.
3. The leak tests for the nickel -63 foils are either analyzed by Hewlett Packard or the test kit is purchased from Hewlett Packard and analyzed at our laboratory.
  - a. leak test kit - Hewlett Packard (HP 18713-60050) (page 2C Hewlett Packard procedure)  
20 ml plastic scintillation vials  
scintillation cocktail mix (Insta-gel)  
sampling procedure (page 2-D, Hewlett Packard procedure)  
8512200490 851025  
REG1 LIC30  
06-20867-01 PDR
  - b. Packard Tri-carb model # 4530  
Scintillation Counter

03979

Phone:  
P.O. Box 1689 • Hartford, Connecticut 06101

An Equal Opportunity Employer

"OFFICIAL RECORD COPY"

OCT 08 1985

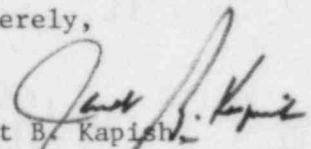
ML10

- c. Instrument calibration - efficiency is calculated by means of an N.B.S. traceable Nickel -63 standard corrected for decay. Clean filter D used for background

$$E = \frac{\text{cpm}}{\text{dpm}}$$

$$\text{Sample calculation : } \mu\text{Ci/filter} = \frac{\text{net cpm}}{(1) (\text{Eff.}) (2.22 \times 10^6)}$$

Sincerely,

  
Janet B. Kapish  
Assistant Director, Environmental Chemistry