



Lic. no. 24-25941-01

September 15, 1989

A. Bert Davis
Regional Administrator
Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

Dear Mr. Davis:

In my letter of August 8, 1989, I stated we were flushing our Iodine-125 waste with 15,000 gallons of water per month. I now find that amount is incorrect - we have two water meters for the building and I was given only one meter reading. For the first seven months here, we actually averaged slightly over 100,000 gallons of water per month introduced into the sewer system. Using this figure, we dispose of an average of 3700 microcuries of Iodine-125 a month with 100,000 gallons of water - or 9.4×10^{-6} microcuries/ml/month; well within NRC guidelines of less than 4×10^{-5} microcuries/ml/month.

I have also instructed our RIA supervisor to perform a monthly audit, determine our actual water usage and calculate our monthly disposal volume. I have enclosed the August audit report.

I must apologize for the error in my first letter; I should have realized our water usage was low. If you need additional information, please call me at (314) 991-1311. Thank you for your assistance.

Sincerely,

A handwritten signature in black ink, appearing to read "J. David Hoover", written over a horizontal line.

J. David Hoover, Ph.D.
Vice President, Technical Operations

JDH:ddh

Enclosure

Metropolitan Reference Laboratories, Inc.

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REG3 LIC30
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9-5-89

R. H. Lee

RADIOACTIVE MATERIAL AUDIT

AUDIT TOTAL 4311.7 X .81 = 3492.5 uCi/WASTE
 WATER USAGE (HUNDREDS CU. FT.) ⁴⁸⁸ X 750 = 366000 GALLONS/MONTH
 uCi/GALLON = 0.00954 $\frac{3492.5}{366000} = 2.4 \times 10^{-6}$ uCi/ml

PRODUCT	# VIALS	TOTAL (uCi)	PRODUCT	# VIALS	TOTAL
HBsAb	2	7.4	T. ESTROGEN	1	3.3
HBcAb	1.5	10.5	T4	7	2240
HBe	10	76	T3U	21	420
HAV-m	10	76	T3 RIA	2	2.2
FSH	8	20	IgE	2	42
LH	6	18	FREE T4	6	12
PROLACTIN	3	7.5	TSH	7	490
PROGESTERON	6	27	B-HCG	36	360
TESTOSTERON	5	20	DIGOXIN	3	15
FREE TESTO	2.5	10			
DHEA-504	3	12			
ESTRADIOL	3	9			
PSA	10	100			
C-PTH	2	10			
INTACT-PTH	1	10			
GASTRIN	1	3.5			
ANTI-DNA	4	8			
CA-125	1	6.5			
CA 19-9	3	10.5			
CA 15-3	2	20			
AFP	7	14.7			
FERRITIN	2	100			
CORTISOL	4	20			
B-12 (C.57)	12	36 18			
FOLATE	12	36			
HGH	6	60			
INSULIN	13	13			
C PEPTIDE	4	12 3.6			

4311.7