

January 26, 2011

Mr. Michael LaFranzo  
Health Physicist  
U.S. Nuclear Regulatory Commission  
Region III  
Division of Nuclear Materials Safety  
2443 Warrenville Rd., Ste. 210  
Lisle, IL 60532-4352

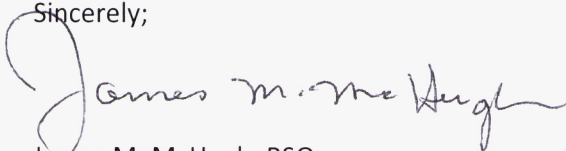
Dear Mr. LaFranzo;

The electron capture detector that was not listed on the Ni-63 sealed source inventory at the time of your inspection is actually a Varian Aerograph Model 96-92 scandium tritide ECD dated 2/1976. That would explain why it was not on the Ni-63 inventory list. The current activity of this detector is less than 139 mCi. We wipe tested the ECD for tritium contamination to check for evidence of leakage. The results are attached. Due to the age of this ECD we are looking at options of either returning it to Varian or disposal as radioactive waste.

We have also wipe tested the waste PPE found in the locked cabinet where the Ni-63 cabinets were stored. The results will be forwarded to you when we received them from the Radiation Detection Company.

If you have any questions, please contact me at 816-360-5338 or Eric Jeppesen at 816-360-5378.

Sincerely;



James M. McHugh, RSO  
Senior Advisor  
Environmental Safety & Health Office

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Assay Definition-

Assay Description:  
Basic dual DPM assay

Assay Type: DPM (Dual)  
Report Name: GCS detector; Serial # F547, Model # 96-92, Date 2-76  
Output Data Path: C:\Packard\Tricarb\Results\69Fairlane\3h\_14c\_dpm\20110125\_1433  
Raw Results Path: C:\Packard\Tricarb\Results\69Fairlane\3h\_14c\_dpm\20110125\_1433\20110125\_1433.results  
Assay File Name: C:\Packard\TriCarb\Assays\3h\_14c\_dpm.lsa

Count Conditions-

Nuclide: 3H-14C  
Quench Indicator: tSIE  
External Std Terminator (sec): 0.5 2s%  
Pre-Count Delay (min): 0.00  
Quench Sets:  
Low Energy: 3H  
Mid Energy: 14C  
Count Time (min): 1.00  
Count Mode: Normal  
Assay Count Cycles: 1 Repeat Sample Count: 1  
#Vials/Sample: 1 Calculate % Reference: Off

Background Subtract: Off  
Low CPM Threshold: Off  
2 Sigma % Terminator: Off

Regions	LL	UL
A	0.0	12.0
B	12.0	156.0
C	0.0	0.0

Count Corrections-

Static Controller: On Luminescence Correction: Off  
Colored Samples: Off Heterogeneity Monitor: n/a  
Coincidence Time (nsec): 18 Delay Before Burst (nsec): 75

Half Life-

Half Life Correction: Off

Regions	Half Life	Units	Reference Date	Reference Time
A				
B				
C				

Cycle 1 Results

S#	Count Time	CPMA	CPMB	DPM1	DPM2	SIS	tSIE	MESSAGES
1	1.00	19	23	23	30	93.55	633.80	
2	1.00	43	35	60	46	64.34	605.88	
3	1.00	13	17	15	22	80.30	623.51	
4	1.00	18	23	21	30	93.50	604.82	
5	1.00	17	15	23	20	58.18	584.37	
6	1.00	92	37	146	48	38.74	607.93	