

Office of the Dean of the Faculty  
MOUNT HOLYOKE COLLEGE  
South Hadley, Massachusetts 01075  
Telephone 413 538-2372



September 28, 1978

Mr. Robert O. McClintock  
Nuclear Regulatory Commission  
631 Park Avenue  
King of Prussia  
Pennsylvania 19406

Docket Numbers 30-00764  
70-00702

Dear Mr. McClintock:

Here is the additional information promised you in my letter of August 10, 1978 concerning corrective actions to be taken to comply with the requirement that our sealed source containing 4.9mCi of cesium-137 be tested for contamination or leakage at intervals not to exceed six months. The necessary wipe test was carried out with the result shown on the attached record dated September 8, 1978. The record shows that the source is in acceptable condition.

Sincerely,

A handwritten signature in cursive script that reads "Emily L. Wick".

Emily L. Wick  
Dean of the Faculty  
Professor of Chemistry

Enclosure

7811020300

Mount Holyoke College Physics Department

Cs<sup>137</sup> Wipe Test Record

Date Sept. 8 1978

Counting time for each test: 5 minutes.

Method: 2" NaI crystal shielded by > 1.5" Pb counted using a Canberra Model 810 Double Delay Line Amplifier and a Canberra Model 835 single channel analyzer

I. Data

- (1) Standard source plus background counts 908, 484  
(2) Background counts 501  
(3) Wipe sample plus background counts 514

II. Calculations

- (4) Standard source counts ((1) - (2)) 907, 983  
(should be  $> 5 \times 10^5$  for sufficient accuracy)  
(5) Wipe sample counts ((3) - (2)) 13  
(5a) Relative error ( $\sqrt{(2) + (3)}/5$ ) 2.451  
(A) Standard source activity corrected for decay 1.03  $\mu$ curies.  
(W) Activity of wipe ( $1000 \times (A) \times ((5)/(4))$ ) .015 ncuries.  
Error to within 4% accuracy ( $W \times (5a)$ )  $\pm .037$  ncuries.

If activity (W) is less than 5 ncuries source is in acceptable condition.

Signature Howard W. Nicholson, Jr.