

Department of Physics  
(712) 277-5151

February 21, 1983

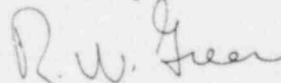
D. G. Wiedeman, Chief  
Materials Radiation Protection  
Section 1  
United States Nuclear Regulatory Commission  
Region III  
799 Roosevelt Road  
Glen Ellyn, IL 60137

Dear Chief Wiedeman:

In response to your letter dated January 29, 1983, I am enclosing a copy of the leak test report of 2/9/83 by Emery Sobottka. We will be conducting paper smear tests on this source every six months hence forth.

2/21/83  
Dated

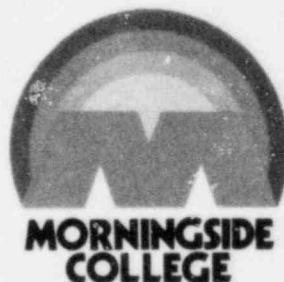
Sincerely,



R. W. Green, Chairman  
Department of Physics

RWG:pj  
Enc.

cc President Miles Tommeraasen  
Franklin Terry, Dean  
Cecil Larson, Business Manager



SIoux CITY, IOWA 51106

8303170455 830310  
PDR ADOCK 07002837  
C PDR

FEB 24 1983

LEAK TEST REPORT

SOURCE DATA

Source owner Morningside College  
 and location Physics Dept. Sioux City, Iowa 51106  
Dr. Robert W. Green Telephone 712-274-5124  
 AEC License # \_\_\_\_\_ Source Model # \_\_\_\_\_  
 Source Supplier \_\_\_\_\_  
 Isotope Pu-Be Quantity \_\_\_\_\_ Serial # 320897  
 Type of leak test Paper Smear Date 2-9-83

COUNTER DATA

Sample Identification	Total cpm	Bkgd cpm	Net cpm	Counter Unit	Counter Eff.	Net dpm	Net $\mu\text{Ci}$
Pu-Be Smear	34	30	4	PCC-111C	50%	8	$3.6 \times 10^{-6}$

TEST RESULTS

Source must be removed from service when final column above (Net  $\mu\text{Ci}$ ) exceeds  $5 \times 10^{-3}$   $\mu\text{Ci}$ .

Signed Ermy E. Sittler  
 Date 2-9-83