

U. S. ATOMIC ENERGY COMMISSION  
BYPRODUCT MATERIAL LICENSE

Page 1 of 1 Page

Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Part 3 Licensing of Byproduct Material, and in reliance on statements and representations heretofore made by the licensee a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer and import byproduct material listed below; and to use such byproduct material for the purpose(s) and at the place(s) designated below. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954 and is subject to all applicable rules, regulations, and orders of the Atomic Energy Commission now or hereafter in effect and to any conditions specified below.

Licensee			
1. Name	<b>Harshaw Chemical Company</b>	3. License number	<b>34-6558-2</b> <b>(063)</b>
2. Address	<b>2240 Prospect Avenue</b> <b>Cleveland 15, Ohio</b>	4. Expiration date	<b>July 31, 1963</b>
		5. Reference No.	
6. Byproduct material (element and mass number)	7. Chemical and/or physical form	8. Maximum amount of radioactivity which licensee may possess at any one time	
A. Americium 241	A. ORNL Plated Source	A. 2 microcuries	
B. Curium 244	B. ORNL Plated Source	B. 2 microcuries	
9. Authorized use			
A. and B. Calibration and resolution measurements on alpha detectors.			

## CONDITIONS

10. Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above.
11. The licensee shall comply with the provisions of Title 10, Part 20, Code of Federal Regulations, Chapter 1, "Standards For Protection Against Radiation".
12. Byproduct material shall be used by, or under the supervision of, J. W. Harshaw.
13. Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Part 70, "Special Nuclear Material Regulations", you are further licensed to receive, possess and use the special nuclear material resulting from the decay of Curium 244. This license shall be deemed to contain the conditions specified in Section 70.32(a) of said regulations.

DUPLICATED  
FOR DIV. OF COMPLIANCEDate **July 26, 1961***CRB / Kaufman*For the U. S. Atomic Energy Commission  
Original Signed By  
James R. Mason

Chief, Isotope Branch

Division of Licensing and Regulation  
Washington 25, D. C.

Date Received <b>JUL 12 1961</b>	Expiration Date <b>July 31, 1963</b>	Issue Date	Tech. Reviewer <b>CRB</b>
Control No. <b>35857</b>	Reference No.	License No. <b>34-6558-2 063</b>	Amendment No.
Isotope	For	Possession Limit	
A. Americium 241	A. ORNL Plated Source	A. 2 microcuries	
B. Curium 244	B. ORNL Plated Source	B. 2 microcuries	
C.	C.	C.	
D.	D.	D.	
E.	E.	E.	
F.	F.	F.	
G.	G.	G.	
H.	H.	H.	

Authorized Use

A. & B Calibration and resolution measurements  
on alpha detectors

REMARKS, Letters, Phone calls, Visits, Exemptions, Etc. ( Use reverse side if necessary )

See special conditions <sup>22</sup> for  
special nuclear material  
insert Curium 244

*Harpster*

Conditions			
1. A B C	6.	11.	16. <b>22</b>
2. A B C	7.	12.	17.
3. A B C D	8. A B C	13.	18.
4. A B	9. A B C	14. A B C	19.
5.	10.	15.	20.
			21.

Mail box <i>attn Harpster</i>	Date Mailed <b>JUL 26 1961</b>	Approve	Vo
		Tech. Reviewer <b>CRB</b>	Date <b>7/26</b>
		Chief <b>CRB</b>	Date <b>7/26</b>