

# APPLICATION For

## SPECIAL NUCLEAR MATERIALS LICENCE

(Submit this form in quadruplicate to the U.S. Atomic Energy Commission, Special Nuclear Material Branch, Division of Licensing and Regulations, Washington 25, D.C. Please type the requested information.)

70.22(1)

Name of organization  
or institution DIAMOND ALKALI COMPANY

Address Research Center, P.O.Box 348, Painesville, Ohio

Incorporated or organized in Delaware  
(Name of State)

Location of principle office Cleveland, Ohio

### Principle Officers:

Name	Address	Citizenship
Mr. R. F. Evans	Union Commerce Bldg., Cleveland, O.	USA
Mr. A. B. Tillman	" " " " "	USA

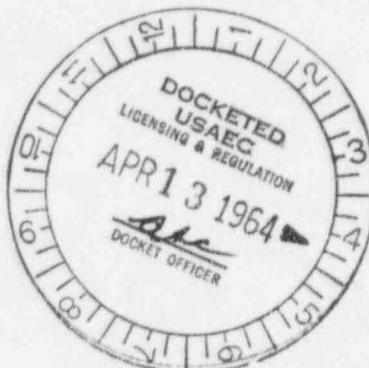
Does any alien, foreign corporation or foreign government exercise any control or ownership over the applicant? If yes, explain: \_\_\_\_\_  
No

70.22(2)

The special nuclear material requested in this application will be used as alpha emitting standards for calibration of alpha counting equipment.

70.22(3)

Three (3) years.



70.22(4)

This application is for a licence to possess and use plutonium alpha sources manufactured by Eberline Instrument Corporation.

Total number of sources Six (6)  
Total ug\* of Pu<sup>239</sup> 25  
Maximum ug\* of Pu<sup>239</sup> 21  
per source

\*To obtain ug multiply the desired alpha emission rate (CPM 2 $\pi$ ) by  $1.4 \times 10^{-5}$ .

70.22(5)

Date required: June 1, 1964

70.22(6) (7) and (8)

The plutonium is firmly adherent to the metal support and consequently does not represent an internal or external radiation hazard. Thus the information requested in items (6), (7) and (8) of section 70.22 of 10 CFR 70 is not pertinent to this application. The following precautions will be taken to keep unauthorized personnel from removing or using the sources.

Sources will be used and stored in areas under AEC security regulations, which are locked when authorized personnel are not present.

Name of person filling  
out this form William Morrison Jackson  
Title or position Nuclear Safety Officer  
Signature *W M Jackson*

FROM: <b>Edward A. Hall Co. Painesville, Ohio</b>		DATE OF DOCUMENT: <b>1-2-66</b>	DATE RECEIVED <b>1-11-66</b>	NO.: <b>1000</b>
TO: <b>DEAR</b>		LTR. <b>X &amp; encl.</b>	MEMO:	REPORT:
CLASSIF: <b>V</b>		ORIG.:	CC:	OTHER:
POST OFFICE		ACTION NECESSARY <input type="checkbox"/>		CONCURRENCE <input type="checkbox"/>
REG. NO:		NO ACTION NECESSARY <input type="checkbox"/>		COMMENT <input type="checkbox"/>
DESCRIPTION: (Must Be Unclassified)		FILE CODE: <b>70-537</b>		
<b>Ltr. trans:</b>		REFERRED TO	DATE	RECEIVED BY
<b>ENCLOSURES:</b>		<b>Handwritten: 1-24</b>		
<b>SEN Lic. Appl. to cover 6 Pu alpha</b>		<b>w/file cy. &amp; file</b>		
<b>sources.....</b>		<b>1-compliance cy.</b>		
REMARKS: <b>Mail Room Distribution:</b>				
<b>1-PIR Copy</b>				
		<b>1</b>		

**N/66**