



CHEMICALS DIVISION  
RARE EARTHS

*A-67*  
W. R. GRACE & CO.  
DAVISON CHEMICAL DIVISION  
BALTIMORE 3, MD.

REPLY TO:  
P. O. BOX 188  
POMPTON PLAINS,  
NEW JERSEY  
TEMPLE 5-3060

September 18, 1964

U. S. Atomic Energy Commission  
Washington, D. C. 20545

Attention: Director, Division of Licensing and  
Regulation

Gentlemen:

Reference: 40-86 File Copy

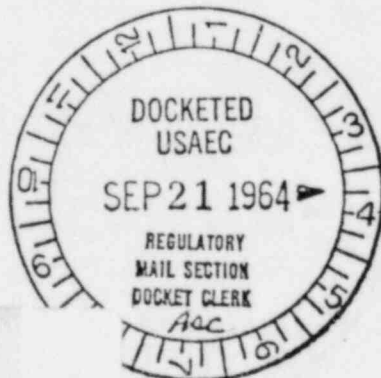
We enclose Form AEC-2, in quadruplicate, for renewal of  
Source Material License Number STA-422, which expires  
on October 31, 1964.

If you wish additional information, please let us know.

Very truly yours,

*Richard L. Stone*  
Richard L. Stone

RLS:CT  
Encl.



8208250352 820617  
PDR FOIA  
AKST82-219 PDR

*Cert. No. 926184*

Copy Provided  
Compliance

*9/28/64*

101 N. CHARLES ST., BALTIMORE 3, MD. • AREA CODE 301: PHONE 727-3900

ACKNOWLEDGED

4610

UNITED STATES ATOMIC ENERGY COMMISSION

APPLICATION FOR SOURCE MATERIAL LICENSE

Pursuant to the regulations in Title 10, Code of Federal Regulations, Chapter 1, Part 40, application is hereby made for a license to receive, possess, use, transfer, deliver or import into the United States, source material for the activity or activities described.

<p>1. (Check one)</p> <p><input type="checkbox"/> (a) New license</p> <p><input type="checkbox"/> (b) Amendment to License No. _____</p> <p><input checked="" type="checkbox"/> (c) Renewal of License No. <b>STA-422</b></p> <p><input type="checkbox"/> (d) Previous License No. _____</p>		<p>2. NAME OF APPLICANT <b>W. R. GRACE &amp; COMPANY</b> <b>DAVISON CHEMICAL DIVISION</b></p> <p>3. PRINCIPAL BUSINESS ADDRESS <b>P.O. BOX 188</b> <b>POMPTON PLAINS, NEW JERSEY</b></p>																	
<p>4. STATE THE ADDRESS(ES) AT WHICH SOURCE MATERIAL WILL BE POSSESSED OR USED</p> <p style="text-align: center;"><b>868 Black Oak Ridge Road, Wayne, New Jersey</b></p>																			
<p>5. BUSINESS OR OCCUPATION <b>Chemical Manufacturer</b></p>		<p>5. (a) IF APPLICANT IS AN INDIVIDUAL, STATE CITIZENSHIP <b>DNA</b></p>	<p>(b) AGE <b>DNA</b></p>																
<p>7. DESCRIBE PURPOSE FOR WHICH SOURCE MATERIAL WILL BE USED</p> <p style="text-align: center;"><b>Thorium ore processing</b></p>																			
<p>8. STATE THE TYPE OR TYPES, CHEMICAL FORM OR FORMS, AND QUANTITIES OF SOURCE MATERIAL YOU PROPOSE TO RECEIVE, POSSESS, USE, OR TRANSFER UNDER THE LICENSE</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:20%;">(a) TYPE</th> <th style="width:20%;">(b) CHEMICAL FORM</th> <th style="width:20%;">(c) PHYSICAL FORM (Including % U or Th.)</th> <th style="width:40%;">(d) MAXIMUM AMOUNT AT ANY ONE TIME (in pounds)</th> </tr> </thead> <tbody> <tr> <td>NORMAL URANIUM</td> <td></td> <td></td> <td></td> </tr> <tr> <td>URANIUM DEPLETED IN THE U-235 ISOTOPE</td> <td></td> <td></td> <td></td> </tr> <tr> <td>THORIUM</td> <td><b>Insoluble salts</b></td> <td><b>Monazite, Thorite, etc, up to 20% ThO<sub>2</sub></b></td> <td><b>Unlimited requested</b></td> </tr> </tbody> </table> <p>(e) MAXIMUM TOTAL QUANTITY OF SOURCE MATERIAL YOU WILL HAVE ON HAND AT ANY TIME (in pounds) <b>Requesting "Unlimited" per previous license dated 11/22/61.</b></p>				(a) TYPE	(b) CHEMICAL FORM	(c) PHYSICAL FORM (Including % U or Th.)	(d) MAXIMUM AMOUNT AT ANY ONE TIME (in pounds)	NORMAL URANIUM				URANIUM DEPLETED IN THE U-235 ISOTOPE				THORIUM	<b>Insoluble salts</b>	<b>Monazite, Thorite, etc, up to 20% ThO<sub>2</sub></b>	<b>Unlimited requested</b>
(a) TYPE	(b) CHEMICAL FORM	(c) PHYSICAL FORM (Including % U or Th.)	(d) MAXIMUM AMOUNT AT ANY ONE TIME (in pounds)																
NORMAL URANIUM																			
URANIUM DEPLETED IN THE U-235 ISOTOPE																			
THORIUM	<b>Insoluble salts</b>	<b>Monazite, Thorite, etc, up to 20% ThO<sub>2</sub></b>	<b>Unlimited requested</b>																
<p>9. DESCRIBE THE CHEMICAL, PHYSICAL, METALLURGICAL, OR NUCLEAR PROCESS OR PROCESSES IN WHICH THE SOURCE MATERIAL WILL BE USED, INDICATING THE MAXIMUM AMOUNT OF SOURCE MATERIAL INVOLVED IN EACH PROCESS AT ANY ONE TIME, AND PROVIDING A THOROUGH EVALUATION OF THE POTENTIAL HAZARDS ASSOCIATED WITH EACH STEP OF THOSE OPERATIONS.</p> <p><b>See our application dated 2/11/60, and the amendments thereto dated 4/11, 6/20 and 7/29/1960, 7/3, 7/6 and 8/2/61, except to the extent that the application refers to superseded provisions of the Commissions Regulation 10CFR20. See also our letter to AEC dated 7/3/61, re; incineration of source material.</b></p>																			
<p>10. DESCRIBE THE MINIMUM TECHNICAL QUALIFICATIONS INCLUDING TRAINING AND EXPERIENCE THAT WILL BE REQUIRED OF APPLICANT'S SUPERVISORY PERSONNEL INCLUDING PERSON RESPONSIBLE FOR RADIATION SAFETY PROGRAM (OR OF APPLICANT IF APPLICANT IS AN INDIVIDUAL).</p> <p><b>See our letters to Division of Licensing and Regulations dated 4/11 and 7/13/60, plus attachments.</b></p> <p><b>See previous AEC License STA-422, dated 11/22/61 and AEC letter dated 11/22/61, Docket No. 40-86.</b></p>																			
<p>11. DESCRIBE THE EQUIPMENT AND FACILITIES WHICH WILL BE USED TO PROTECT HEALTH AND MINIMIZE DANGER TO LIFE OR PROPERTY AND RELATE THE USE OF THE EQUIPMENT AND FACILITIES TO THE OPERATIONS LISTED IN ITEM 9; INCLUDE: (a) RADIATION DETECTION AND RELATED INSTRUMENTS (including film badges, dosimeters, counters, air-monitoring and other survey equipment as appropriate. The description of radiation detection instruments should include the type of radiation detected and the range(s) of each instrument.)</p> <p><b>See 9 and 10, above</b></p>																			
<p>(b) METHOD, FREQUENCY, AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED IN (a) ABOVE (for film badges, specify method of calibrating and processing, or name supplier.)</p> <p><b>See 9 and 10, above</b></p>																			

8208250347

*Dupe of*