

UNITED STATES ATOMIC ENERGY COMMISSION

APPLICATION FOR SOURCE MATERIAL LICENSE

File Copy

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.

1. (Check one) <input type="checkbox"/> (a) New license <input type="checkbox"/> (b) Amendment to License No. _____ <input checked="" type="checkbox"/> (c) Renewal of License No. <u>STA-422</u> <input type="checkbox"/> (d) Previous License No. _____	2. NAME OF APPLICANT W. R. GRACE & COMPANY DAVISON CHEMICAL DIVISION
	3. PRINCIPAL BUSINESS ADDRESS P.O. BOX 188 POMPTON PLAINS, NEW JERSEY

4. STATE THE ADDRESS(ES) AT WHICH SOURCE MATERIAL WILL BE POSSESSED OR USED
868 Black Oak Ridge Road, Wayne, New Jersey

5. BUSINESS OR OCCUPATION Chemical Manufacturer	6. (a) IF APPLICANT IS AN INDIVIDUAL, STATE CITIZENSHIP DNA	(b) AGE DNA
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7. DESCRIBE PURPOSE FOR WHICH SOURCE MATERIAL WILL BE USED
Thorium ore processing

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

(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	Insoluble salts	Monazite, Thorite, etc, up to 20%ThO ₂	Unlimited requested

(e) MAXIMUM TOTAL QUANTITY OF SOURCE MATERIAL YOU WILL HAVE ON HAND AT ANY TIME (in pounds)
Requesting "Unlimited" per previous license dated 11/22/61.

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.
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thereto dated 4/11, 6/20 and 7/29/1960, 7/3, 7/6 and 8/2/61, except to the extent that the application refers to superseded provisions of the Commissions Regulation 10CFR20.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.

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).
See our letters to Division of Licensing and Regulations dated 4/11 and 7/13/60, plus attachments.
See previous AEC License STA-422, dated 11/22/61 and AEC letter dated 11/22/61, Docket No. 40-86.

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 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 ranges of each instrument.)
See 9 and 10, above

(b) METHOD, FREQUENCY, AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED IN 9. (If applicable, specify method of calibrating and processing, or name supplier.)
See 9 and 10, above

