



**RESPONSE TO FREEDOM OF INFORMATION ACT (FOIA) / PRIVACY ACT (PA) REQUEST**

2010-0151

1

RESPONSE TYPE



FINAL



PARTIAL

REQUESTER

Jessica Rosell

DATE

APR 12 2010

**PART I. -- INFORMATION RELEASED**

- No additional agency records subject to the request have been located.
- Requested records are available through another public distribution program. See Comments section.
- APPENDICES A** Agency records subject to the request that are identified in the listed appendices are already available for public inspection and copying at the NRC Public Document Room.
- APPENDICES B** Agency records subject to the request that are identified in the listed appendices are being made available for public inspection and copying at the NRC Public Document Room.
- Enclosed is information on how you may obtain access to and the charges for copying records located at the NRC Public Document Room, 11555 Rockville Pike, Rockville, MD 20852-2738.
- APPENDICES** Agency records subject to the request are enclosed.
- Records subject to the request that contain information originated by or of interest to another Federal agency have been referred to that agency (see comments section) for a disclosure determination and direct response to you.
- We are continuing to process your request.
- See Comments.

**PART I.A -- FEES**

AMOUNT \*

\$ 137.43

\* See comments for details



You will be billed by NRC for the amount listed.



None. Minimum fee threshold not met.



You will receive a refund for the amount listed.



Fees waived.

**PART I.B -- INFORMATION NOT LOCATED OR WITHHELD FROM DISCLOSURE**

- No agency records subject to the request have been located.
- Certain information in the requested records is being withheld from disclosure pursuant to the exemptions described in and for the reasons stated in Part II.
- This determination may be appealed within 30 days by writing to the FOIA/PA Officer, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001. Clearly state on the envelope and in the letter that it is a "FOIA/PA Appeal."

**PART I.C COMMENTS (Use attached Comments continuation page if required)**

1. The incoming FOIA/PA is located in ADAMS at ML00620278.
2. Records with a ML Accession Number are publicly available in the NRC's Public Electronic Reading Room at <http://www.nrc.gov/reading-rm.html>. If you need assistance in obtaining these records, please contact the NRC's Public Document Room (PDR) at 301-415-4737, or 1-800-397-4209, or by email to [PDR.Resource@nrc.gov](mailto:PDR.Resource@nrc.gov).
3. You will be issued a refund in the amount of \$137.43. Actual processing fees were as follows
  - Search Professional - 4hrs @ \$56.36 = \$225.44
  - Search Clerical - 10.5 hrs @ \$27.49 = \$288.65
  - Review Professional - 10hrs @ 56.36 = \$563.60
  - Review clerical - 2hrs @ \$27.49 = \$54.98

Actual Total: \$1,134.31  
Less Advanced Payment of \$1,271.74

SIGNATURE - FREEDOM OF INFORMATION ACT AND PRIVACY ACT OFFICER

*Donna L. Sealing*  
Donna L. Sealing

**APPENDIX A**  
**Records Already Publicly Available**

Availability	Publicly Available
Accession Number	8507300404
Title	Requests info re steps to be taken to facilitate purchase of 20 lb thorium metal under License C-2782.
Document Date	11/30/1956
Estimated Page Count	1
Official Record	No
Replicated	No
Author Affiliation	DOW CHEMICAL CO.
Addressee Affiliation	US ATOMIC ENERGY COMMISSION (AEC)
Availability	Publicly Available
Accession Number	8507300370
Title	Application for renewal of License C-2782, authorizing use of thorium metal sintered pellets & thorium fluoride.
Document Date	12/6/1956
Estimated Page Count	3
Official Record	No
Replicated	No
Author Affiliation	DOW CHEMICAL CO.
Addressee Affiliation	
Availability	Publicly Available
Accession Number	8507300298
Title	Authorizes purchase of 20 lbs thorium metal from AEC for use under License C-2782.
Document Date	12/19/1956
Estimated Page Count	2
Official Record	No
Replicated	No
Author Affiliation	US ATOMIC ENERGY COMMISSION (AEC)
Addressee Affiliation	DOW CHEMICAL CO.
Availability	Publicly Available
Accession Number	8507300312
Title	Advises of issuance of License C-2782, authorizing receipt & possession of thorium metal &/or thorium compounds for use in preparation of magnesium alloys.
Document Date	12/19/1956
Estimated Page Count	2
Official Record	No
Replicated	No
Author Affiliation	US ATOMIC ENERGY COMMISSION (AEC)
Addressee Affiliation	DOW CHEMICAL CO.

Availability	Publicly Available
Accession Number	8507300262
Title	Authorizes for docket 4000313, sintered thorium pellets importation from Dominion Magnesium, Ltd for use under License C-2782. Authorization expires on 580101.
Document Date	2/1/1957
Estimated Page Count	1
Official Record	No
Replicated	No
Author Affiliation	US ATOMIC ENERGY COMMISSION (AEC)
Addressee Affiliation	DOW CHEMICAL CO.

Availability	Publicly Available
Accession Number	8507300466
Title	Advises of issuance of License C-2782, authorizing receipt & possession of thorium metal & compounds for use in preparation of magnesium alloys at plants in Midland, MI, Bay City, MI, Madison, IL & Freeport, TX.
Document Date	1/1/1958
Estimated Page Count	1
Official Record	No
Replicated	No
Author Affiliation	US ATOMIC ENERGY COMMISSION (AEC)
Addressee Affiliation	DOW CHEMICAL CO.

Availability	Publicly Available
Accession Number	8507300214
Title	Advises of issuance of License C-2782, authorizing receipt & possession of thorium & thorium compounds for use in preparation of magnesium alloys of Midland, MI, Bay City, MI & Madison, IL facilities.
Document Date	1/1/1959
Estimated Page Count	1
Official Record	No
Replicated	No
Author Affiliation	US ATOMIC ENERGY COMMISSION (AEC)
Addressee Affiliation	DOW CHEMICAL CO.

Availability	Publicly Available
Accession Number	9804210213
Title	Advises of issuance of license C-2782 authorizing receipt/ possession of & title to thorium metal &/or thorium compounds, both domestically & through import from Canada for use in preparation of magnesium alloys.
Document Date	12/3/1959
Estimated Page Count	1
Official Record	No
Replicated	No
Author Affiliation	US ATOMIC ENERGY COMMISSION (AEC)
Addressee Affiliation	DOW CHEMICAL CO.

Availability: Publicly Available  
 Accession Number: 8507300419  
 Title: Advises of issuance of Amend 1 to License C-2782, authorizing receipt & possession of thorium metal & compounds for use in preparation of magnesium alloys at plants located in Midland, MI, Madison, IL & San Carlos, CA.  
 Document Date: 1/1/1960  
 Estimated Page Count: 1  
 Official Record: No  
 Replicated: No  
 Author Affiliation: US ATOMIC ENERGY COMMISSION (AEC)  
 Addressee Affiliation: DOW CHEMICAL CO.

Availability: Publicly Available  
 Accession Number: 8507300323  
 Title: Application for renewal of License C-2782, authorizing possession of thorium metal sintered pellets, thorium scrap & thorium fluoride.  
 Document Date: 12/6/1960  
 Estimated Page Count: 2  
 Official Record: No  
 Replicated: No  
 Author Affiliation: DOW CHEMICAL CO.  
 Addressee Affiliation:

Availability: Publicly Available  
 Accession Number: 8507300256  
 Title: Advises of issuance of License C-2782, authorizing possession of thorium metal & compounds for use in preparation of magnesium alloys at Midland & Bay City, MI, Madison, IL & San Carlos, CA facilities.  
 Document Date: 1/1/1961  
 Estimated Page Count: 1  
 Official Record: No  
 Replicated: No  
 Author Affiliation: US ATOMIC ENERGY COMMISSION (AEC)  
 Addressee Affiliation: DOW CHEMICAL CO.

Availability: Publicly Available  
 Accession Number: 8507300151  
 Title: Application for renewal of License STB-527, authorizing use of thorium in manufacture of magnesium base thorium alloys.  
 Document Date: 2/22/1962  
 Estimated Page Count: 4  
 Official Record: No  
 Replicated: No  
 Author Affiliation: DOW CHEMICAL CO.  
 Addressee Affiliation:

Availability	Publicly Available
Accession Number	ML071290305
Title	Letter to L. Johnson, USAEC, from J. Charm, The Dow Chemical Company, Re: Permission to Dispose of Magnesium-Thorium Alloy Sludge.
Document Date	12/3/1970
Estimated Page Count	1
Official Record	Yes
Replicated	Yes
Author Affiliation	Dow Chemical Co
Addressee Affiliation	US Atomic Energy Commission (AEC)
Availability	Publicly Available
Accession Number	ML071290307
Title	Letter to D. Van Farowe, Michigan Department of Public Health, From J. Charm, The Dow Chemical Company, Re: Permission to Dispose of Magnesium-Thorium Alloy Sludge.
Document Date	12/3/1970
Estimated Page Count	3
Official Record	Yes
Replicated	Yes
Author Affiliation	Dow Chemical Co
Addressee Affiliation	State of MI, Dept of Community Health US Atomic Energy Commission (AEC)
Availability	Publicly Available
Accession Number	ML070800459
Title	FOIA/PA-2007-0158 - Thorium-related material licenses at Dow Chemical, Michigan, Illinois & California, 1951-1973; Consolidated Aluminum Corp., Illinois, 1973-1986; Spectrulite Consortium, 1986 - Feb. 2007
Document Date	3/15/2007
Estimated Page Count	2
Official Record	Yes
Replicated	Yes
Author Affiliation	Simmons Cooper, LLC
Addressee Affiliation	NRC/OIS/IRSD/RFSB
Availability	Publicly Available
Accession Number	ML050750212
Title	Issuance of license amendment to the Dow Chemical Company to approve the decommissioning criteria and final survey plan for the decommissioning of thorium contaminated slag storage piles at the Dow Chemical Company's sites in Midland and Bay City, MI.
Document Date	7/21/1997
Estimated Page Count	16
Official Record	Yes
Replicated	Yes
Author Affiliation	NRC/NMSS/IMNS
Addressee Affiliation	Dow Chemical Co

Availability: Publicly Available  
 Accession Number: 8003070070  
 Title: Submits addl info requested by NRC during 800116 meeting re renewal of License STB-527. Requests removal of Madion, IL site & discusses storage of magnesium-thorium sludge.  
 Document Date: 2/5/1980  
 Estimated Page Count: 2  
 Official Record: No  
 Replicated: No  
 Author Affiliation: DOW CHEMICAL CO.  
 Addressee Affiliation: NRC OFFICE OF NUCLEAR MATERIAL SAFETY & SAFEGUARDS (NMSS)

Availability: Publicly Available  
 Accession Number: 8003070070  
 Title: Submits addl info requested by NRC during 800116 meeting re renewal of License STB-527. Requests removal of Madion, IL site & discusses storage of magnesium-thorium sludge.  
 Document Date: 2/5/1980  
 Estimated Page Count: 2  
 Official Record: No  
 Replicated: No  
 Author Affiliation: DOW CHEMICAL CO.  
 Addressee Affiliation: NRC OFFICE OF NUCLEAR MATERIAL SAFETY & SAFEGUARDS (NMSS)

Availability: Publicly Available  
 Accession Number: 8109180640  
 Title: Submits support info & documentation for items specified in 800205 ltr summarizing 800116 meeting re renewal of License STB-527.  
 Document Date: 8/24/1981  
 Estimated Page Count: 23  
 Official Record: No  
 Replicated: No  
 Author Affiliation: DOW CHEMICAL CO.  
 Addressee Affiliation: NRC OFFICE OF NUCLEAR MATERIAL SAFETY & SAFEGUARDS (NMSS)

Availability: Publicly Available  
 Accession Number: 8702270136  
 Title: Application for renewal of License STB-1097, authorizing use of 1,514,850 kg thorium for mfg of magnesium base alloys containing up to 4% thorium & authorizing GE Stein, RJ Moder, RL Holshouser & AJ Weider as users. Fee paid.  
 Document Date: 4/20/1982  
 Estimated Page Count: 5  
 Official Record: No  
 Replicated: No  
 Author Affiliation: CONSOLIDATED ALUMINUM CORP.  
 Addressee Affiliation:

Availability	Publicly Available
Accession Number	8702270022
Title	Forwards application for license. Barnes Acquisition, Inc intends to purchase Consolidated Aluminum Corp mfg facility in Madison, IL. Facility produces magnesium thorium alloys & stores thorium hardener.
Document Date	8/20/1986
Estimated Page Count	1
Official Record	No
Replicated	No
Author Affiliation	SPECTRULITE CONSORTIUM, INC.
Addressee Affiliation	NRC OFFICE OF INSPECTION & ENFORCEMENT (IE REGION III)
Availability	Publicly Available
Accession Number	8702020346
Title	Forwards application for amend to License STB-1097, authorizing storage of thorium-magnesium sludge on property contiguous to plant & deleting responsibilities for handling & ownership of all other mats.
Document Date	8/21/1986
Estimated Page Count	2
Official Record	No
Replicated	No
Author Affiliation	CONSOLIDATED ALUMINUM CORP.
Addressee Affiliation	NRC OFFICE OF INSPECTION & ENFORCEMENT (IE REGION III)
Availability	Publicly Available
Accession Number	8702020353
Title	Application for amend to License STB-1097, authorizing long-term storage of thorium-magnesium sludge.
Document Date	8/21/1986
Estimated Page Count	7
Official Record	No
Replicated	No
Author Affiliation	CONSOLIDATED ALUMINUM CORP.
Addressee Affiliation	
Availability	Publicly Available
Accession Number	8702270004
Title	License STB-1488 for Spectrulite Consortium, Inc, authorizing use of 7,500 kg thorium for mfg of magnesium-based thorium alloys & BW Moore & JE Wallace as users.
Document Date	10/3/1986
Estimated Page Count	2
Official Record	No
Replicated	No
Author Affiliation	NRC OFFICE OF INSPECTION & ENFORCEMENT (IE REGION III)
Addressee Affiliation	

Availability	Publicly Available
Accession Number	9804170003
Title	Amend 5 to license STB-1097 for Consolidated Aluminum Corp, amending conditions 6,7,8,9,12 & 14 re storage of thorium sludge prior to expiration of license.
Document Date	10/3/1986
Estimated Page Count	2
Official Record	No
Replicated	No
Author Affiliation	NRC OFFICE OF INSPECTION & ENFORCEMENT (IE REGION III)
Addressee Affiliation	

Availability	Publicly Available
Accession Number	8702020329
Title	Forwards Amend 5 to License STB-1097. Thorium sludge storage area must be decommissioned & decontaminated prior to expiration of license. Radiation protection program must be submitted per Condition 15.
Document Date	10/3/1986
Estimated Page Count	2
Official Record	No
Replicated	No
Author Affiliation	NRC OFFICE OF INSPECTION & ENFORCEMENT (IE REGION III)
Addressee Affiliation	CONSOLIDATED ALUMINUM CORP.

<u>Date</u>	<u>Accession Number</u>	<u>Description (Page Count)</u>
1/27/2004	ML040280327	Memo from M. Lesar, NRC to C. Miller, NRC, Subj: Amendment of Dow Chemical Co, By-Product Material License No. 21-00265-06... (4 pages)



**APPENDIX B**  
**RECORDS BEING RELEASED IN THEIR ENTIRETY**  
**(If copyrighted identify with \*)**

<u>NO.</u>	<u>DATE</u>	<u>DESCRIPTION/ (PAGE COUNT)</u>
1.	11/20/1957	Letter from Otis Heath, DOW to Lyall Johnson, AEC re: Application for renewal of License C-2782, authorizing use of thorium metal sintered pellets & thorium fluoride, 5 pages
2.	12/05/1958	Letter from Otis Heath, DOW to H.L. Price, AEC re: Application for renewal of License C-2782, authorizing use of thorium metal sintered pellets, thorium scrap & thorium fluoride, 5 pages
3.	11/30/1959	Letter from Otis Heath, DOW to H.L. Price, AEC re: Application for renewal of License C-2782, authorizing use of thorium metal sintered pellets, thorium scrap & thorium fluoride at plants in Midland, MI, Bay City, MI & Madison, IL, 5 pages
4.	12/12/1961	Application for renewal of License C-2782, authorizing use of thorium metal sintered pellets, thorium scrap & thorium fluoride, 6 pages
5.	03/30/1962	Letter from Otis Heath, DOW to Donald Nussbaumer, Atomic Energy Commission (AEC) Responding to 620323 request for addl info re application for renewal of License STB-527. Change in type of welding or welding procedures could present situation where local exhaust ventilation needed for low level airborne thorium, 3 pages ( <b>Portions of record outside of scope</b> )
6.	04/24/1963	Letter from Otis Heath, DOW to Donald Nussbaumer, AEC Requesting amend of License STB-527, incorporating possession limit of 500 lbs thorium compounds, 1 page
7.	03/11/1965	Letter from Otis Heath, DOW to Donald Nussbaumer, AEC re: Application for renewal of License STB-527, authorizing use of thorium compounds for mfg of magnesium base thorium alloys, 5 pages
8.	03/20/1968	License STB-527, authorizing use of thorium, 1 page
9.	03/26/1971	Letter from Robert Layfield, AEC to Otis Heath, DOW re: Amend 2 to License STB-527, authorizing use of U & thorium & stating max quantity of source matl that licensee may possess at any one time, 2 pages
10.	01/31/1973	Letter from Otis Heath, DOW to James Malaro, AEC re: Application for renewal of License STB-527, authorizing storage of thorium compounds, 3 pages
11.	02/13/1975	Letter from Otis Heath, DOW to Kitty Dragonette, AEC Forwarding application for amend to License STB-527 authorizing storage & extrusion of magnesium billets containing 3% thorium, 3 pages

<u>NO.</u>	<u>DATE</u>	<u>DESCRIPTION/ (PAGE COUNT)</u>
12.	03/09/1973	Amend 5 to License STB-527, authorizing use of 200,000 lb thorium as metal or process sludge, 1,000 lb as oxide or fluoride or 300 lb as compounds, 1 page
13.	10/09/1979	Letter from Paul Guinn, AEC to Dennis Barsten, DOW Discussing 790517 ltr re renewal of License STB-527. Requests addl info re storage of magnesium-thorium wastes & radiation & decontamination survey activities, 3 pages ( <b>Portions of record outside of scope</b> )