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Description of document: **Documents concerning irradiation of gemstones to**

enhance color, and licensing of such reactors by the

Nuclear Regulatory Commission (NRC)

Released date: 15-February-2008

Posted date: 09-June-2008

Date/date range of document: 1960 - 2008

Source of document: U.S. Nuclear Regulatory Commission

Mail Stop T5-F11

Washington, DC 20555-0001

Fax: 301-415-5130 E-mail: FOIA@nrc.gov

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NRC FC	RM 464 Part I	U.S. NUCLEAR REGULATORY	COMMISSION	FOIA/PA	RESPONSE NUMBER	
(6-1998) REGULATOR			2008-0085	1		
MITED STATE	RES INFORM	RESPONSE TO FREEDOM OF INFORMATION ACT (FOIA) / PRIVACY ACT (PA) REQUEST		RESPONSE TYPE	PARTIAL	
REQUES	rer -			FEB 1 5 2008		
		PART I INFORMATION	ON RELEASE			
	No additional agency records	subject to the request have been	ocated.			
	Requested records are availa	ble through another public distribu	tion program.	See Comments section.		
	Agency recor public inspec	ds subject to the request that are it ion and copying at the NRC Public	dentified in the Document Ro	listed appendices are alread om.	y available for	
	Agency recor public inspec	ds subject to the request that are ition and copying at the NRC Public	dentified in the Document Ro	listed appendices are being om.	made available for	
	Enclosed is information on ho Document Room, 11555 Roc	w you may obtain access to and the ville Pike, Rockville, MD 20852-27	ne charges for o 738.	copying records located at the	e NRC Public	
J	A Agency recor	ds subject to the request are enclo	sed.			
	Records subject to the request eferred to that agency (see co	st that contain information originate omments section) for a disclosure	ed by or of inter determination	est to another Federal agenc and direct response to you.	y have been	
	We are continuing to process	your request.				
	See Comments.					
		PART I.A F	EES			
AMOUNT * You will be billed by NRC for the amount listed. None. Minimum fee threshold not met.						
See c	omments	receive a refund for the amount lis	sted.	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 C	OMMENTS (Use attached Comr	nents continu	ation page if required)		
The records released under FOIA #2007-0333 are already publicly available in the NRC's Public Electronic Reading Room (PDR) at http://www.nrc.gov/reading-rm/adams.html. Also, enclosed is a copy of the procedures for obtaining copies of records from the PDR.						
For assistance in obtaining any records, please contact the NRC's Public Document Room (PDR) at 1-800-397-4209 or email at pdr@nrc.gov.						
SIGNATURE - FREEDOM OF INFORMATION ACT AND PRIVACY ACT OFFICER						
Russell A. Nichols Mussell A. Niely ly						

APPENDIX A RECORDS BEING RELEASED IN THERE ENTIRETY

<u>NO.</u> 1	<u>DATE</u> 9/18/2007	<u>DESCRIPTION/(PAGE COUNT)</u> Copy of FOIA Request #2007-0333, and NRC Acknowledgement Letter (3 pages)
2.	12/3/2007	NRC Response Partial 1 (7 pages)
3.	2/13/2008	NRC Final Response (1 page)

From:

uid no body <nobody@www.nrc.gov>

To:

<foia@nrc.gov>

Date: Subject: Tue, Sep 18, 2007 4:54 PM WWW Form Submission

Below is the result of your feedback form. It was submitted by

() on Tuesday, September 18, 2007 at 16:53:54

FirstName: Jon

LastName: Crate

Company/Affliation: FAI Materials Testing Laboratory

Address1: 825 Chance Road

Address2:

City: Marietta

State: GA

Zip: 30066

Country: United_States

Country-Other: USA

Email: Jon@FAI.US

Phone: 770-928-1930

Desc: We are trying to determine what equipment and procedures have been used for the analysis of neutron irradiated gemstones, in particular blue topaz. For each of the following companies, please indicate if possible the dates they began testing and when they stopped testing blue topaz (or gemstones in general), and all the information given about the equipment used, the testing protocols, any standard reference materials used, calculations made, isotopes found and the levels of radioactivity found. If there are indications of the amount of materials tested, that would be of interest also.

RESEARCH REACTOR CENTER

CONTACT

JOHN P. ERNST

UNIV OF MISSOURI-COLUMBIA

PHONE

573-882-5226

COLUMBIA, MO 65211

R.S.O.

JOHN P. ERNST

LICENSE NO.: 24-00513-36E

13-30L

DOCKET 3030162

GEM TESTING AND RESEARCH

CONTACT

MILAGROS GONZALEZ-GANDIA

DR. JAMES E. SHIGLEY

11405 N.W. 7TH ST., #104

PHONE 30

305-226-7112

MIAMI, FL 33172 R.S.O.

LICENSE NO.: 09-23801-01E

DOCKET 3032571

GEMOLOGICAL INSTITUTE OF AMERICA CONTACT

PHONE 760-603-4019

5355 ARMADA DRIVE CARLSBAD, CA 92008

R.S.O.

DR. JAMES E. SHIGLEY



LICENSE NO.: 04-23787-01E DOCKET 3032052

While we do not have any emergency need for rush services, we are holding our breath! ;>) Many thanks, Jon 770-928-1930

FeeCategory: Private_Corporation

MediaType:

FeeCategory_Description:

Expedite_ImminentThreat: on

Expedite_ImminentThreatText:

Expedite_UrgencyToInformText:

Waiver_Purpose:

Waiver_ExtentToExtractAnalyze:

Waiver_SpecificActivityQuals:

Waiver_ImpactPublicUnderstanding:

Waiver_NatureOfPublic:

Waiver_MeansOfDissemination:

Waiver_FreeToPublicOrFee:

Waiver_PrivateCommericaIInterest:



UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, DC 20555 - 0001

September 18, 2007

FOIA/PA 2007-0333

Jon Crate FAI Materials Testing Laboratory 825 Chance Road Marietta, GA 30066

Dear Requester:

We received your Freedom of Information Act/Privacy Act (FOIA/PA) request on September 18, 2007.

Your request has been assigned the following reference number that you should use in any future communications with us about your request: **FOIA/PA 2007-0333**

To ensure the most equitable treatment possible of all requesters, the NRC processes requests on a first-in, first-out basis, using a multiple track system based upon the estimated time it will take to process the request. Based on your description of the records you are seeking, we estimate completion of your request will take 10-20 workdays (2-4 weeks). We will advise you of any change in the estimated time to complete your request.

For purposes of assessing fees in accordance with our regulations (10 CFR 9.33), we have placed your request in the following category: Commercial

If applicable, you will be charged appropriate fees for Search, Review, and Duplication of records.

A sheet has been enclosed that explains in detail the fee charges that may be applicable. Please do not submit any payment unless we notify you to do so.

The following person is the FOIA/PA Specialist who has been assigned responsibility for your request: Reginald Sheppard, 301-415-6975.

If you have questions on any matters concerning your FOIA/PA request please feel free to contact the assigned FOIA/PA Specialist or me at (301) 415-7169.

Sincerely.

Russell A. Nichols

Missell A. Mielulo

FOIA/Privacy Act Officer

Office of Information Services

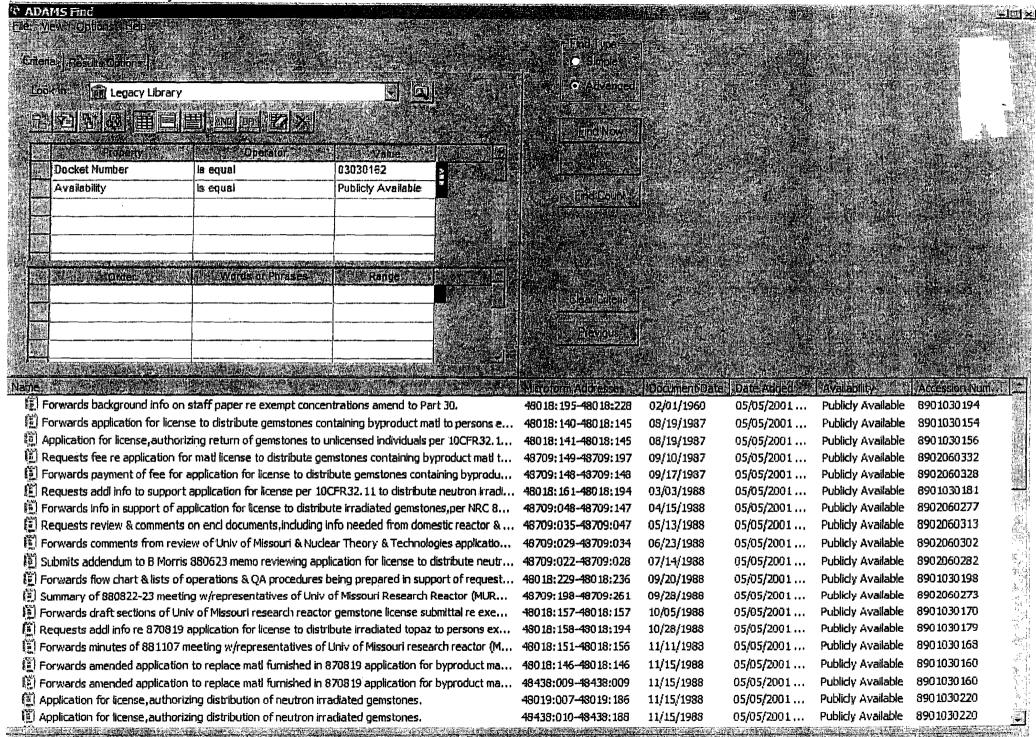
Enclosures:
Incoming Request
Explanation of Fees

NRC FO	RM 464 Part I U.S. NUCLEAR REGULATORY COMMISSION	FOIA/PA	RESPONSE NUMBER					
6-1998)	SCHEAR REGULANT	2007-0333	1					
MILEO STATES	RESPONSE TO FREEDOM OF INFORMATION ACT (FOIA) / PRIVACY ACT (PA) REQUEST	RESPONSE FINAL	▼ PARTIAL					
REQUES	TER	DATE 0 3007						
• • · · Selection Street, i · ·	Jon M. Crate	OEC - 3 2007						
	PART I INFORMATION RELEASE	D						
	No additional agency records subject to the request have been located.							
	Requested records are available through another public distribution program.	See Comments section.						
	Agency records subject to the request that are identified in the public inspection and copying at the NRC Public Document Ro	listed appendices are alread pom.	y available for					
	APPENDICES Agency records subject to the request that are identified in the public inspection and copying at the NRC Public Document Ro	listed appendices are being oom.	made available for					
	Enclosed is information on how you may obtain access to and the charges for Document Room, 11555 Rockville Pike, Rockville, MD 20852-2738.	copying records located at th	e NRC Public					
	Agency records subject to the request are enclosed.							
	Records subject to the request that contain information originated by or of inte referred to that agency (see comments section) for a disclosure determination	rest to another Federal agendand direct response to you.	cy have been					
\mathbf{V}	We are continuing to process your request.							
\mathbf{V}	See Comments.							
	PART I.A FEES							
AMOUNT You will be billed by NRC for the amount listed. None. Minimum fee threshold not met.								
See comments for details								
	PART I.B INFORMATION NOT LOCATED OR WITHHEL	D FROM DISCLOSURE	<u> </u>					
	No agency records subject to the request have been located.							
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	PART I.C COMMENTS (Use attached Comments continu	uation page if required)						
The i	The incoming FOIA/PA-2007-0333 request is in ADAMS at ML072620111.							
Enclosed is an ADAMS listing of records responsive to your request. The records are publicly available in the NRC's Public Electronic Reading Room (PDR) at http://www.nrc.gov/reading-rm/adams.html. Also, enclosed is a copy of the procedures for obtaining copies of records from the PDR.								
For assistance in obtaining any records, please contact the NRC's Public Document Room (PDR) at 1-800-397-4209 or email at pdr@nrc.gov.								
SIGNAT	TURE - FREEDOM OF INFORMATION ACT AND PRIVACY ACT OFFICER	·						
Russell A. Nichols Renell A. Nichols								
			A 17					

Re: FOIA/PA-2007-0333

APPENDIX A RECORDS ARE PUBLICLY AVAILABLE

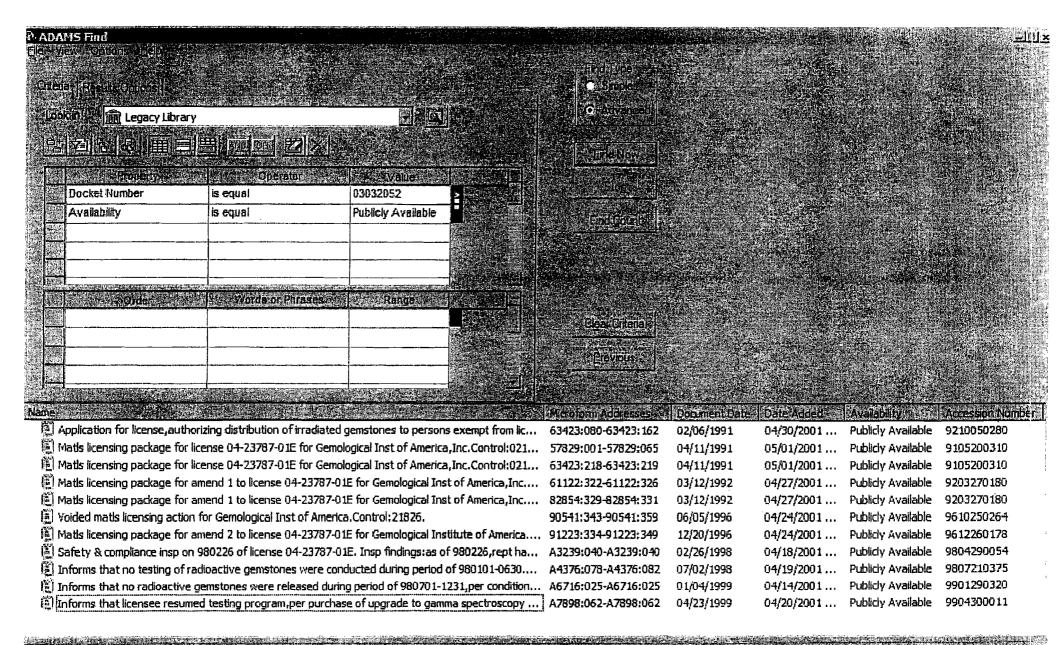
<u>NO.</u>	<u>DATE</u>	DESCRIPTION(PAGE COUNT))/EXEMPTIONS
1.	N/A	ADAMS Listing of publicly available documents relating to equipment and standards used in neutron irradiated gemstones at licensed facilities (5 pages).

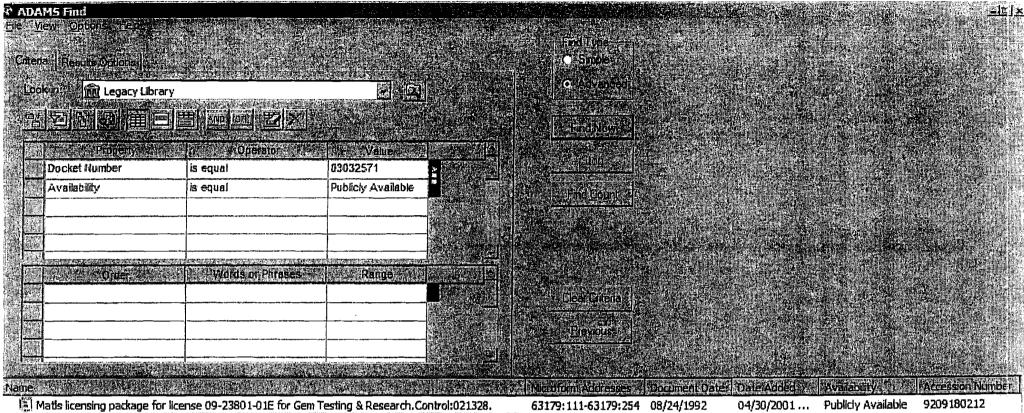


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		paring arming	fate Added	AVEIROURY ESSE	JATOPAROTY UNITS
States conditions under which gemstones will be released to unlicensed persons.	48018: 147-48018: 150	11/17/1988	05/05/2001	Publicly Available	8901030163
Furnishes draft revs to App A, license application per 881130 telcon.	48018:237-48018:240	12/01/1988	05/05/2001	Publidy Available	8901030203
Summarizes conclusions of 881123 telcon w/S Morris.Morris will forward complete description of		12/01/1988	05/05/2001	Publicly Available	8901030205
Provides comments on Univ of Missouri research reactor 881123 license application & info from t		12/01/1988	05/05/2001	Publicly Available	8 9 0 1030 208
License 24-00513-36E for Curators of Univ of Missouri, authorizing use of irradiated processed		12/08/1933	05/05/2001	Publicky Available	8901030148
License 24-00513-36E for Curators of Univ of Missouri, authorizing use of irradiated processed	82854:3 48 -82854:353	12/08/1988	05/05/2001	Publicly Available	8901030148
Forwards License 24-00513-35E.License authorizes distribution of processed topaz containing b		12/08/1988	05/05/2001	Publicly Available	8902060266
Expresses appreciation for expeditious action on license application for distribution of neutron ir	48708:003-48708:004	12/15/1988	05/05/2001	Publicly Available	8902060262
Confirms 881216 telcon darifying understanding of two provisions of gemstone distribution Lice	4 8174:011–48174:011	12/20/1988	05/05/2001	Publicly Available	8901170291
Corrected License 24-00513-36E for Curators of Univ of of Missouri, authorizing use of irradiate	48174:009-48174:011	01/05/1989	05/05/2001	Publicly Available	8901170288
Corrected License 24-00513-36E for Curators of Univ of of Missouri, authorizing use of Irradiate	48438:007-49438:008	01/05/1989	05/05/2001	Publicly Available	8901170288
Forwards corrected License 24-00513-36E.License only authorizes distribution of processed top		01/30/1989	05/05/2001	Publicly Available	8901030148 8902060265 8902060262 8901170291 8901170288 8901170288 8902060223 9209030104
🖺 Informs that addl info requested re 88 1222 request for amend to license 24-00513-36E to distri	62971:199-62971:200	06/26/1989	04/30/2001	Publicly Available	9209030104
Forwards addl info to 88 1222 ltr requesting amend to license 24-00513-36E concerning cut top	62971:203-62971:227	07/24/1989	04/30/2001	Publidy Available	9209030112
Amend 1 to License 24-00513-36E for Curators of Univ of Missouri.	82854:359-82854:360	11/09/1989	04/24/2001	Publicly Available	9502280099
Application for amend to license 24-00513-36E, authorizing distribution of irradiated processed t	62971:201-62971:202	01/18/1990	04/30/2001	Publicly Available	9209030106
Responds to 900227 telcon re concern identified during recent NRC insp of facilities.Requests i	53020:054-53020:056	03/08/1990	05/04/2001	Publicly Available	167
Insp Repts 30-02278/90-01,30-30162/90-01,30-00303/90-01 & 70-0270/90-01 an 900220-23	53389:075-53389:086	03/22/1990	05/04/2001	Publicly Available	9004100246
Matis licensing package for Amend 2 to License 24-00513-36E for Curators of Univ of Missouri.	54344:298-54344:301	03/23/1990	05/0 4/20 01	Publidy Available	9006280 180
Discusses & forwards Safety Insps 30-02278/90-01, 30-00303/90-01,30-30162/90-01 & 70-02	53389:072-53389:086	03/26/1990	05/04/2001	Publicly Available	9004100238
Discusses icensees authorized to distribute neutron irradiated blue topaz, including Univ of Miss	63423:206-63423:206	11/08/1990	05/05/2001	Publicly Available	9011290227
Certifies that less than 50% of annual cost of owning & operating facility devoted to production	56496:126-56496:128	12/27/1990	04/30/2001	Publicly Available	9101220458
Provides rev to operational/QA procedures & computer program descriptions.Procedure submitt	56496:127-56496:128	12/27/1990	04/30/2001	Publidy Available	
Responds to NRC Bulletin 92-002. Teletherapy unit covered under License 24-00513-35 now in s	63926:356-63926:357	11/10/1992	04/30/2001	Publicly Available	313
Voided matis licensing action for Curators of Univ of MO. Control:021473.	82391:252-82391:313	01/27/1994	04/24/2001	•	9501200302
Reports that no revisions to operational & QA procedures took place in 1994,per Section 6.E,A	82585:356-82585:356	01/20/1995	04/24/2001	Publidy Available	9502020346
Submits list of all gemstones transferred per 10CFR30.41 in 1994,per license condition 13.b &s	82967:330-82967:330	01/27/1995	04/24/2001	Publidy Available	9503060094
Matis licensing package for amend 3 to license 24-00513-36E for Curators of Univ of Missouri.	84326:239-84326:285	04/27/1995	04/25/2001	Publicly Available	9506150411
Informs of action taken to address concerns re control of radioactive topaz in non-licensed acco	85864:082-85864:082	09/21/1995	04/26/2001	Publicly Available	3210130200
Discusses NRC concerns re control of radioactive topaz at facility identified by R Marsh during 9	85864:079-85864:082	10/06/1995	04/26/2001	Publicly Available	9510190283
Forwards insp repts 30-30162/95-04 & 50-186/95-04 on 951101- 27.No violations noted.	86679:036-86679:049	12/27/1995	04/19/2001	Publicly Available	9601020246
Insp repts 30-30162/95-04 & 50-186/95-04 on 951101-27.No violations noted.Major areas Insp	86679:039-86679:049	12/27/1995	04/19/2001	Publicly Available	9601020249
Forwards revised statement of intent, per request, to reflicense 24-00513-40 instead of license	89387:265-89387:265	01/29/1996	04/23/2001	Publidy Available	9608160007
Matts licensing package for amend 4 to license 24-00513-36E for Curators of Univ of Missouri.R	89251:038-89251:042	06/04/1996	04/23/2001	Publicly Available	9608020299
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AMS Find #U-15 (Online) - EI-15 (Figure 1) - II -					
		real unexecute	ORICAHAN PE	Availability and	Accession lum.
Reports all gemstones transferred, per 10CFR30.41 re license 24-00513-36E.	91961:351-91961:351	01/31/1997	04/21/2001	Publicly Available	9703050136
Discusses certification provided under provisions of 10CFR50.21 & IAW Section 6.D, app A of N	91961:352-91961:352	01/31/1997	04/21/2001	Publicly Available	9703050183
Provides certification that less than 50% of annual cost of owning & operating facility devoted t	A 1891:328-A 1891:328	01/12/1998	04/16/2001	Publidy Available	9801230284
Reports all gemstones transferred,per Section 30.41 of 10CFR30.	A1891:327-A1891:327	01/12/1998	04/16/2001	Publicly Available	9801230287
Matis licensing package for amend 6 to license 24-00513-36E for Curators of Univ of Missouri.C	A3134:273-A3134:300	04/02/1998	04/17/2001	Publicly Available	9804170079
Safety & compliance insp on 980519 of license 24-00513-36E. Insp findings:no violations identifi	A3622:281-A3622:281	05/19/1998	04/18/2001	Publicly Available	9806020198
Provides required five year rept of matl transferred under provision of license 24-00513-36E,pe	A6920:241-A6920:255	01/28/1999	04/14/2001	Publicly Available	9902110047
Provides required rept of all gemstones transferred under provisions of license 24-00513-36E.p		01/28/1999	04/14/2001	Publicly Available	9902190130





Matls licensing package for amend 1 to license 09-23801-01E for Gem Testing & Research.Control:...

77777:352-77777:358 10/18/1993 04/23/2001 ...

Publicly Available 9401120229

NRC FORM 464 Part I (6-1998)	U.S. NUCLEAR REGULATORY	COMMISSION	FOIA/PA	RESPONSE NUMBER
CEAN REQUIRE			2007-333	2
	RESPONSE TO FREEDOM O INFORMATION ACT (FOIA) / PRI ACT (PA) REQUEST		RESPONSE TYPE	L PARTIAL
REQUESTER	resident to the second of the		DATE FEB 1 3	2008
	Jon Crate		`	
	PART I INFORMATIO	ON RELEASE!	D	
No additional a	gency records subject to the request have been I	ocated.		
	ords are available through another public distribut			
APPENDICES	Agency records subject to the request that are ic public inspection and copying at the NRC Public	dentified in the Document Ro	e listed appendices are alre oom.	eady available for
APPENDICES	Agency records subject to the request that are ic public inspection and copying at the NRC Public	dentified in the Document Ro	listed appendices are be com.	ng made available fo
Enclosed is info Document Room	ormation on how you may obtain access to and th m, 11555 Rockville Pike, Rockville, MD 20852-27	e charges for (copying records located a	t the NRC Public
APPENDICES	Agency records subject to the request are enclo	sed.	•	
Records subject referred to that	t to the request that contain information originate agency (see comments section) for a disclosure	d by or of inter determination	rest to another Federal ag and direct response to yo	ency have been u.
We are continu	ing to process your request.			
See Comments				
	PART I.A F	EES		r
AMOUNT *	You will be billed by NRC for the amount lis	sted.	None. Minimum fee'thre	shold not met.
\$ 411.92	You will receive a refund for the amount lis	ted.	Fees waived.	
 See comments for details 	•		, · · · · · · · · · · · · · · · · · · ·	
	PART I.B - INFORMATION NOT LOCATED O	OR WITHHELD	FROM DISCLOSURE	
No agency reco	ords subject to the request have been located.		•	
Certain informa the reasons sta	tion in the requested records is being withheld fro ted In Part II.	om disclosure (pursuant to the exemption	s described in and fo
This determinat Washington, Do	ion may be appealed within 30 days by writing to C 20555-0001. Clearly state on the envelope and	the FOIA/PA (in the letter th	Officer, U.S. Nuclear Regi hat it is a "FOIA/PA Appe	latory Commission, al.
* ***	PART I.C COMMENTS (Use attached Comm	nents continu	ation page if required)	
on our search, no ad No. 03030162) was te was terminated in Oc in October 1993.	n with Reginald Sheppard of my staff, you nar ditional records were located. Please also note rminated in February 2002. The license for th tober 2000. In addition, the license for Gem T	that the licer ne Gemologica Testing & Res	nse for the University of al Institute of America (1	Missouri (Docket Docket No. 03032052
Finally, you will recei	ive a refund in the amount of \$411.92, the cost	for review.		
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SIGNATURE FREEDOM OF INF Russell A. Nichols	ORMATION ACT AND PRIVACY ACT OFFICER	Topo -	· · · · · · · · · · · · · · · · · · ·	
				
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