



I-GANE-34
Georgia Institute of Technology

GANE #34

NEELY NUCLEAR RESEARCH CENTER
900 ATLANTIC DRIVE
ATLANTA, GEORGIA 30332-0425

DOCKETED
USNRC

(404) 884-3800

March 1, 1988

'96 JUL 10 A10:11

Director, Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Re: Docket No. 50-160 License No. 97

Attention: Document Control Desk

Gentlemen:

On behalf of the Georgia Institute of Technology, I hereby apply to the Nuclear Regulatory Commission to amend facility operating license No. 97 as follows:

Section 2.B(2) change from:

2.B(2) "Pursuant to the Act and 10 CFR Part 70, "Special Nuclear Material," to receive, possess, and use at any one time in connection with operation of the reactor up to 13.5 kilograms of contained uranium 235; and to receive, and possess, but not to use, up to 700 grams of U-235 at an enrichment less than 20% contained in the core and control rods of the AGN 201 reactor, Facility Operating License No. R-111, Docket No. 50-176,"

to:

2.B(2) Pursuant to the Act and 10 CFR Part 70, "Special Nuclear Material," to receive, possess and use at any one time in connection with operation of the reactor up to 13.5 kilograms of contained uranium 235.

Justification:

On December 18, 1984 we requested to transfer the AGN 201 fuel from license No. R-111 to license No. 97 so that an orderly and timely decommissioning of the AGN 201 reactor and the eventual return of the AGN fuel to its owner, the Department of Energy, would be possible. At that time the return of the fuel involved factors not under the control of either the licensee or NRC.

Since that time the AGN fuel has been shipped to ORNL. Applicable documents showing appropriate transactions are enclosed.

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PDR ADOCK 05000160
P DCD

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A Division of the Georgia Institute of Technology

An Equal Education and Employment Opportunity Institution

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PDR ADOCK 05000160
G PDR

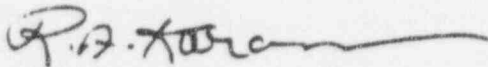
NUCLEAR REGULATORY COMMISSION
Docket No. 50-160-REN EXHIBIT NO. 34
In the matter of Ga. Inst.
☐ Staff ☐ Applicant ☒ Intervenor ☐ Other
☒ Identified ☐ Received ☐ Rejected Reporter WLV
Date 5/24/96 Witness Rene A

Director, Office of Nuclear Reactor Regulation
March 1, 1988
Page 2

Consequently an amendment to the GTRR Technical Specifications removing the statement, "... and to receive and possess, but not to use, up to 700 grams of U-235 at an enrichment less than 20% contained in the core and control rods of the AGN 201 reactor, facility operating license No. R-111 Docket No. 50-176," is appropriate.

We would appreciate NRC cooperation in this matter. Should you have any questions please let me know.

Sincerely yours,



R.A. Karam
Director

RAK:jlr

Attachments



Linda L. Flute
Notary Public, Cobb County, Georgia
My Commission Expires Oct 13, 2001

Form DOE 284
(11 83 Previous editions are obsolete.)
MANDATORY DATA COLLECTION
AUTHORIZED BY Public Laws
93-703, 93-438

APPROVED BY OMB
038 RD468

U.S. DEPARTMENT OF ENERGY

NUCLEAR MATERIAL TRANSFER RECEIPT

NUCLEAR MATERIAL ON TRANSFER	FROM (RIS)	TO (RIS)	NO.
	ZGY	FZF	6
SHIPPING DATE		DATE RECEIVED	
		12-11-87	

MATERIAL HAS BEEN VERIFIED AS FOLLOWS (check one):

PIECE COUNT ☐

CONTAINER COUNT ☒

GROSS WEIGHT CHECK ☐

OTHER: _____

SHIPPER'S WEIGHTS AND NUCLEAR MATERIAL CONTENTS ARE ACCEPTED PENDING FINAL VERIFICATION MEASUREMENTS AND COMPLETION OF DOE/NRC FORM 741

RECEIVED
DOE/NRC
U.S. DEPARTMENT OF ENERGY

NUCLEAR MATERIAL CENTER

BY William Hudson for DB male
12/15/87

18 U.S.C. SECTION 1001 ACT OF JUNE 26 1948 92 STAT 769 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT
OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY IN THE UNITED STATES AS TO ANY MATTERS WITHIN ITS JURISDICTION

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

[illegible]

THE U.S. SECTION OF ADOPTED A YEAR AGO STATE AND MAINE STATE CRIMINAL OFFENSE TO HAVE A POLICE OFFICER STATIONED IN THE U.S. SECTION TO ANY LEARNED OF OFFICER OF THE UNITED STATES AS TO ANY MATTER IN HIS JURISDICTION

FUEL LOADING FOR THE AGM 201 REACTOR

SERIAL NO. 104

Item	Element No.	Total Wt. (gm)*	U-235 Ht. (gm)	Total Uranium (gm)
10" Core Liscs	(Drum) 20459	2027.5	93.25	(Drum) 465.717
	20461	1262.0	57.89	289.881
	20462	1264.0	58.14	290.341
	20463	1264.5	57.99	290.456
	20464	650.5	29.91	149.820
	20465	660.5	30.38	151.769
	20466	2139.0	98.09	491.328
	20467	2143.5	98.29	492.362
Fuel	20471	2059.5	94.40	473.067
	20109	5.97	0.40	1.371
Safety Rod's	20373	78.83	3.62	18.101
	20374	79.00	3.63	18.146
	20375	78.80	3.62	18.100
	20376	78.96	3.63	18.137
	20379	78.96	3.63	18.137
	20382	78.87	3.63	18.116
	20383	78.88	3.63	18.119
	20384	79.04	3.64	18.155
Coarse Control Rod	20377	78.83	3.63	18.107
	20378	78.86	3.63	18.114
	20380	79.05	3.64	18.158
	20381	78.96	3.63	18.137
Fine Control Rod	20219	19.71	0.90	4.527
	20220	19.76	0.91	4.539
	20221	19.81	0.91	4.550
	20222	19.84	0.91	4.557
Total			665.93 gm	3330.818 gm

*: This includes the weight of the Total Uranium + the polyethylene

CLASSIFICATION

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CLASSIFICATION

IN MARIETTA ENERGY SYSTEMS, INC.
 2 PLANT P.O. BOX Y
 K. RIDGE, TENNESSEE 37830
 OWINGS, NM REPRESENTATIVE
 TO 9723-10, MS-1

DATE Nov. 6, 1987

AUTHORIZATION NO.

MAA-

AUTHORIZATION IS REQUESTED TO SHIP THE NON-SCHEDULED, NON-ROUTINE SPECIAL NUCLEAR MATERIALS

PPER	Georgia Institute of Technology	RIS	ZCY
PPER FACILITY	Neely Nuclear Research Center		
ADDRESS	900 Atlantic Drive Atlanta, Georgia 30332	741 NO.	6
REQUESTED SHIP DATE	December 1, 1987		
NAME OF AUTHORIZED REPRESENTATIVE	Dr. Farib A. Karam	DATE	11/6/87
		PHONE	(404) 894-3620
FILING APPROVAL (TO BE COMPLETED BY Y-12)			

FOR NMSS WAREHOUSE

NAME OF AUTHORIZED NM REPRESENTATIVE	DATE	PHONE

GENERAL INFORMATION

PERSONNEL DESIGNATED AS RECIPIENT OF MATERIAL
Dr. Farib A. Karam (Y-12 Plant)
PURCHASE ORDER NO.
REASON FOR THE MATERIAL BEING SHIPPED INTO THE Y-12 PLANT—RECOVERY, RETIREMENT OR EVALUATION, ETC?
Reactor Fuel (See Attached)
MATERIAL WAS SHIPPED TO YOU FROM THIS FACILITY, REFERENCE THE DOE/NRC FORM 741 NUMBER.

GENERAL MATERIAL DESCRIPTION

INITIAL CHEMICAL ELEMENT	GROSS QUANTITY
	Total U = 3330.62 gm U-235 665.93 gm
ISOTOPE	
ISOTOPE DESCRIPTION	
U-235 Reactor Fuel (UO ₂ in a solid polyethylene)	
ISOTOPE DESCRIPTION	
UO ₂ in polyethylene (See Attached)	
ISOTOPE IMPURITIES	
AND QUANTITY OF PRECIOUS METALS (IF ANY)	

CLASSIFICATION

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CLASSIFICATION

CLASSIFICATION

MATERIAL HISTORY

ARE THERE ANY KNOWN HAZARDS CONNECTED WITH THE HANDLING OF THE MATERIAL?
(YES OR NO) IF YES, DESCRIBE IN DETAIL ON A SEPARATE SHEET.

Radioactive (Use Normal Procedure)

AS THE MATERIAL BEEN EXPOSED TO ANY RADIONUCLIDES, SUCH AS FISSION PRODUCTS
OTHER ACTINIDES, TRITIUM, ETC.? (YES OR NO) IF YES, DESCRIBE IN DETAIL
ON A SEPARATE SHEET THE CONDITIONS IN WHICH THE MATERIAL WAS EXPOSED.
INCLUDE CONCENTRATIONS OF CONTAMINANTS AND METHODS OF ANALYSIS.

NO

AS THE MATERIAL COME IN CONTACT WITH ANY HAZARDOUS MATERIAL OR UNDERGONE
UNUSUAL PROCESSING OR TESTS? (YES OR NO) IF YES, DESCRIBE IN DETAIL ON
A SEPARATE SHEET THE HAZARDOUS MATERIAL, PROCESSING OR TESTS, DETAIL
RADIATION OR CONTAMINANT LEVELS.

NO

WHAT IS THE FORM OF THE MATERIAL *Uranium mixed with polyethylene (See Attached)*

NAME AND PHONE NUMBER OF SHIPPER'S CONTACT REGARDING CONTAMINANT OR RADIATION LEVELS.

Mr. Fathi A. Karam (404) 894-3620

TE: ATTACH DETAIL INFORMATION DESCRIBING INDIVIDUAL ITEMS INCLUDING NET WEIGHT,
SNM VALUE, % ENRICHMENT, ISOTOPIC VALUE AND MATERIAL COMPOSITION *(See Attached)*

METHOD OF PACKING

1. SIDE CONTAINER TYPE	APPROX. NO.
<i>55 gal drum (7 A container)</i>	<i>2</i>
2. DOL CONTAINER TYPE	APPROX. NO.
<i>55 gal poly bucket</i>	<i>2 (one in each drum)</i>
3. OTHER CONTAINER INFORMATION	

SPECIAL PRECAUTIONS TO BE OBSERVED WHEN OPENING THE CONTAINER(S)

Do not open 5 gal buckets cannot be easily opened without destroying lid

1. ALL INSIDE CONTAINERS OR PACKAGES MUST HAVE CONTAINER ID,
GROSS AND TARE WEIGHTS AS A MINIMUM. *Two 55 gal. drums will be
labeled 1 and 2*
2. NOTIFICATION OF SHIPMENT AND DOE/NRC-FORM 741 MUST INCLUDE THE
Y-12 AUTHORIZATION NUMBER. *Will do as instructed*
3. BACK-UP INFORMATION AND/OR DOE/NRC-FORM 741 MUST PRECEDE OR
ACCOMPANY SHIPMENT. *Form 741 will be attached to
outside of one of the drums*

CLASSIFICATION

TRIBUTION:
CLASS SUPERVISOR
IDENT OF MATERIAL

CLASSIFICATION



Georgia Institute of Technology

NEELY NUCLEAR RESEARCH CENTER
800 ATLANTIC DRIVE
ATLANTA, GEORGIA 30332-0425

(404) 894-3800

October 20, 1987

TO WHOM IT MAY CONCERN

NOTE:

The Nuclear Regulatory Commission has granted Georgia Institute of Technology permission to transfer all of previously R-111 (AGN-201 Reactor) licensed material to our R-97 license for storage until final transfer from ZCY is made to another licensee. A DOE/NRC 741 form will be filed at the time of transfer to another RIS.

NAME AND ADDRESS
Georgia Institute of Technology
Atlanta, Georgia 30332
ATTN: R.M. Boyd, Manager, Office of Radiation Safety

R-97		MATERIAL TYPE (Nuclear Material Inventory Form DOE-1190-1)
A. REPORT PERIOD		
FROM	TO	Page
04/01/87	09/30/87	2

SECTION A		MATERIAL ACCOUNTABILITY		A. ELEMENT WEIGHT	B. ISOTOPE WEIGHT
1. DOE NRC FORM ATTACHED <input type="checkbox"/> YES <input type="checkbox"/> NO				3498	695
2. BEGINNING INVENTORY - DOE OWNED				0	0
3. BEGINNING INVENTORY - NOT DOE OWNED				0	0
4. RECEIPTS				0	0
5. PROCUREMENT FROM DOE				0	0
FROM					
6. PROCUREMENT - FOR THE ACCOUNT OF DOE					
7. DOD RETURNS - USE A					
8. DOD RETURNS - USE B					
9. DOD RETURNS - OTHER USES					
10. PRODUCTION				0	0
11. FROM OTHER MATERIALS				0	0
B. ICT				0	0
C. ICT				0	0
12. RECEIPTS REPORTED TO DOE NRC ON DOE NRC FORM 361 (Not used signature)				0	0
FROM					
DONATED MATERIAL - FROM DOE TO OTHERS				0	0
DONATED MATERIAL - FROM OTHERS TO DOE				3498	695
13. TOTAL (Line 8-12)		REMOVALS			
EXPENDED IN SPACE PROGRAMS				0	0
14. SALES TO DOE				0	0
TO					
15. SALES TO OTHERS FOR THE ACCOUNT OF DOE				0	0
TO					
16. DOD - USE A					
17. DOD - USE B					
18. DOD - OTHER USES					
19. EXPENDED IN DOE TESTS					
20. ROUTINE TESTS					
21. SHIPPER - RECEIVER DIFFERENCE				0	0
22. SHIPMENTS REPORTED TO NRC/DOE ON DOE NRC FORM 361 (Not used signature)				0	0
TO					
23. DONATED MATERIAL - TO DOE BY OTHERS				0	0
24. DONATED MATERIAL - TO OTHERS BY DOE				0	0
25. DEGRADATION TO OTHER MATERIALS				0	0
B. ICT					
C. ICT					
26. DECAY				0	0
27. FISSION AND TRANSMUTATION				0	0
28. NORMAL OPERATIONAL LOSSES/MEASURED DISCARDS				0	0
29. ACCIDENTAL LOSSES				0	0
30. APPROVED WRITE-OFFS					
INVENTORY DIFFERENCE				168	29
ENDING INVENTORY - DOE OWNED				3330	666
ENDING INVENTORY - NOT DOE OWNED				0	0
TOTAL				3330	666
DATE					
BY					

SECTION B		COUNTRY CONTROL NUMBER DATA		B. ISOTOPE WEIGHT
1	4. CONTROL NUMBER	2	ELEMENT WEIGHT	666
US 115	1		3330	
4. TOTAL WEIGHT				666
(Total must agree with total on sec. B2)				

SECTION C		CERTIFICATION	
1. The data of this statement and other information given above and in any attached schedules is true, complete, and correct.		DATE 10/20/87	
SIGNATURE (See instructions on page 1 of DOE-1190-1)		TITLE Vice President Business & Finance	
Richard Fuller			
2. I, the undersigned, make this statement under penalty of perjury that the information given above and in any attached schedules is true, complete, and correct.		3. I, the undersigned, make this statement under penalty of perjury that the information given above and in any attached schedules is true, complete, and correct.	