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KAP 464-C (11-61)REV.

PAGE

2

PURCHASE OF DER

KNOLLS ATOMIC POWER LABORATORY

M& C Nuclear. Inc.

PURCHASE ORDER NO. 4989-D

THE POLLOWING INSTRUCTIONS SHALL APPLY

PAGES.

1. Technical Reguirements

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OF

- A. Attachment #1 entitled, "Technical Supplement #1, Rev. 1" dated May 14, 1963 except delete Items 1 thru 6 inclusive and Item 11 in their entirety.
- B. L-500, Specification entitled, "Fuel Assemblies-2" dated October 25, 1962.
- C. Sectioning Diagram I-1-B-30 dated 7/8/63.

1

VENDOR

D. Attachment #2 entitled 1-500 Standards Addendum dated 6/1/63.

2. Delivery Requirements

- A. KAPL requires and it is essential that delivery be made as follows:
 - 1. Each item test results on or before 14 calendar days after receipt of material.
 - 2. Corrosion penetration results for Item 9 on or before 28 calendar days after receipt of material.

3. Terms and Conditions of Purchase

- A. Purchase Order Supplement, General Terms and Conditions of Purchase AEC-163 is bereby modified as follows:
 - 1. The document entitled. "Modification to AEC-163" dated 2/18/63.
 - 2. The attachment entitled "Sovernment Furnished Zircaloy Material" which is hereby designated as article 41 under Purchase Graer Supplement AEC-163.
 - 3. The attachment entitled. "Waverment Fundished Uranium Maxedial" which is hereny designated as Article 42 under Purchase Order Supplement AEC-163.
 - 4. Under the provisions of Article IX estitled. "Government Property" and instructions herenzy General Electric will furnish to the successful bidder the rollowing frame of Government Property for use in connection with and under the terms of this order.

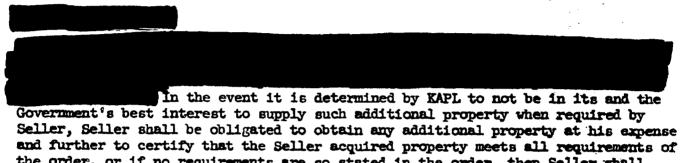
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REPRODUCED AT GOVT EXPENSE # 18

Instruction 3 (continued)



the order, or if no requirements are so stated in the order, then Seller shall certify that the Seller acquired property is identical in all respects to the first supplied KAPL property.

Certified for national defense use under IMS Reg. 1. Seller is required to follow the provisions of IMS Reg. 1 and of all other applicable regulations and orders of HDSA in obtaining controlled materials and other products and materials needed to fill this order.

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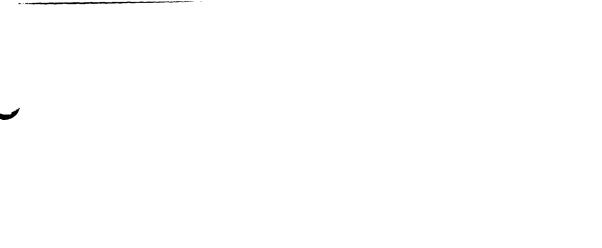
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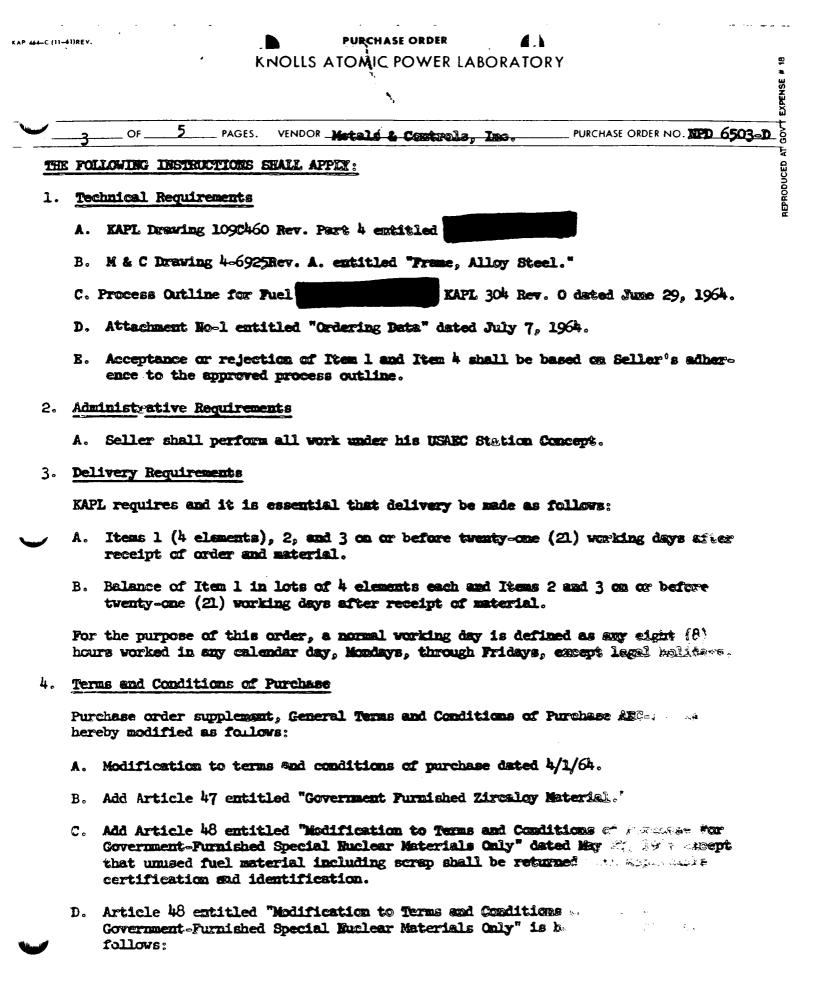
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E 4 OF PAGES. VENDOR METALE & CONTROLE, Inc. PURCHASE ORDER NO. # PD 6503-2

4. Terms and Conditions of Purchase (Continued)

D. (Continued)

Delete subparagraph 1. under Paragraph B. in its entirety and substitute in lier thereof the following:

1. In the performance of the work under the resultant order, Seller shall take all reasonable precautions to protect the health and safety of employees and all members of the public and to minimize danger from all basards to life and property, and shall, with respect to all work encept that which is specified in Section 2 of this article, couply with all health, safety, and fire protection regulations and requirements (including reporting requirements) of the Schenectady Maval Reactors Office of the Counisaion. In the event that Seller fails to comply with said regulations or requirements, General Electric may without prejudice to any other legal or contractual rights of the General Electric issue an order stopping all or any part of the Work. Thereafter a start order for resumption of work may be issued at the disconstion of General Electric and the Counission and Seller shall make no claim for the extension of time or for compensation or damages by reason of or in competions with such work stoppage."

Add subparagraph 2. under Paragraph B. as follows:

2. All work involving chemical processing of special nuclear meterial prior to introduction into are of powert production processes and all handling, storage, shipment, processing and disposal of nonrecyclable early special nuclear material following its removal from core component production processes performed at Seller's plant or at the plant of any lower ther subcontractor shall be performed in accordance with the requirements of a special nuclear material license which shall be obtained by Seller (or Lower tier subcontractor if such work is to be performed by a lower ther subcontractor) under the provisions of Title 10 of the Code of Federal Regulations.

The above new paragraph 2. requires the former paragraph 2. to basene managraph 3.

E. Under the provisions of Article 9 estitled "Government Property" Article & and the second state of the second s

- (1.) Fuel Material identified and certified. Ref. Attachment # 100 180 Health
- (2.) Zircaloy Ref. Attach

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(3.) Zircalov

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 PURCHASE ORDER

 KNULLS/ATOMIC POWER LABORATOKY

5_OF_5	PAGES.	VENDOR	Metals &	controls,	Dec.	PURCHASE ORDER NO	IPD 6503-D

4. Terms and Conditions of Purchase (Continued)

E. (Continued)

best interest to do so, then additional Zircaley and the set of \$52.12/1b and can be purchased from KAPL at Seller's expense at a price of \$52.12/1b and \$14.59/1b respectively. In the event it is determined by KAPL to not be in its and the Government's best interest to supply such additional property when required by Seller, Seller shall be obligated to obtain any additional property at his expense and further to certify that the Seller acquired/property neets all requirements of the order, or if no requirements are so stated in the order, then Seller shall certify that the Seller acquired property is identical in all respects to the first supplied KAPL property.

KAPL estimates that the above listed items will be shipped to Seller on or before July 17, 1964; however, KAPL does not guarantee the accuracy of this estimate.

Certified for national defense use under DMS Regulation No. 1. Seller is required to follow the provisions of DMS Regulation No. 1 and of all other applicable regulations and orders of BDSA in obtaining controlled materials and other products and materials led to fill this order.

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REQUESTED ON SITE	E DELIVERY D	DATE		C. E. SC	heritt.	201	10G. E-1	R.	SUVERI -	est the
HIS ORDER SU	JBJECT TO	GENERAL TERMS A							DING:	V-31
		DELIVER TO:		· · · · · · · · · · · · · · · · · · ·			····		DISCOUNT	NET TOTAL
		+	<u></u>	6503-D 18	(BUILDING)	(800/	- <u></u>			1014
		thereof th	he follow	ts entirety ing:	7 and sub	stitute i	in lieu			
13	C9	Fuel elem	ents.							\$8,636
				4 in its e e following		and subst	itute			
3	68 .	Fillers -	Same as a	required by	r Item 1.		\$1	22.50/	96. "	
		increased	by \$1,52	ice amount 1.50, resul	ting in	a total r	revised	s e e		8,636
		<u></u>				NSISTS OF		PAGES.	<u> </u>	
					encment					
			G E	NERAL	EL EL	ECTRI	C			• *
		From Enclosu ASSIFIED.	ures, Hand	,	- 	VED				
									~	N
					JAN 27					
				ι.	W. KISSI	NGEI:				

•		
AP 444-C ())		
	Anendment No. 1	
PAGE _	2 OF 2 PAGES VENDOR Netals & Controls, Inc. PURCHASE ORDER NO. 6503-D	CER
	struction 1 is hereby modified as follows: 1 subparagraph F as follows:	REPRODUCED
	Attachment #2 entitled "Technical Supplement - Amendment No. 1" dated Jan. 20, 1965.	
Ite for	ms 1 and 2 under subparagraph E shall be modified to read: Ref Attachments 1 and 2 details.	
Add	l Item 4 as follows under subparagraph E as follows:	
(4)	Five (5) sets machined to KAPL Drawing 604 C 954, Part 3, Rev. 0.	
A dd	Instruction 5 as follows:	
5.	Return of GFM Recess Covers	
	Three sets of the original GFM to be shall be returned to KAPL and one (1) set shall be transferred for use under KAPL Purchase Order NPD 6517-Y.	
All for	other terms and conditions of the original order as amended to date are to remain in ce and effect except as specifically amended herein.	

1....

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Purchase Order Price Summary

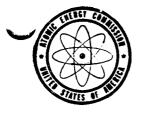
17

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Original Amount of Order	\$7,115.00
Increase by this Amendment No. 1	1,521.50
Revised Amount of Purchase Order	. \$8,636.50

4

ļ	SERIES C. Shyping Form No.	Sale					patraed								 T EXPENSE # 18
		ALTINGTIC AND OTHER	* 5 111 1.1.1	4.C 1344	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1~	I I I			I. Total-L.E.	N. Isotope				REPRODUCED AT GOVT EXPENSE
	ä			6 F F F	80 07					H. Isotopic—L.E.	M. Element				REPRO
		Attns Jack A				RECEIVER'S DATA (B. Date Material Received	ntative)			Net				
	Live. the le tro		B. SEALS NOS.	IE I	5		B . Da	siver (SS Represei	poq	G. ChemL.E.	K. Tare L.				
	"Certrols Inc." Pactear (Facharie Troup lace S. Folburn	rerry frontation	7. CAR NO. & INITIALS		b. Copy.	-	A. To-Project No.	D. Signature of Receiver (SS Representative)	E. Measurement Method	F. Net WtL.E.	J. Gross				
-	2. TO-(RECEIVER) Retals * ("artrols life 1 * ("nclear if actual ss stattower * wallace 5. "othurn	DELIVER TO: ADDRESSF. C. YOX 859. Attlebure	7. CAR NO	Item 1, Amendanent 2	Te a	13.	D. Date Doc. Dispatched J. B/3/64		t in 1.000. total fi.	J. Total-L.E.	Q. faotope		10 C		
	2		a ruicht	•	97% I'nriched			MOT:	uf and p to chtai	L.	P. Element		312		
	a 51 cm	(e)	P 11	1. 111-501	26 05	SHIPPER'S DATA	C. Date Material Shipped			1. leotopic-L.	O. Net	110.00 130.00 137.05	520: •23		
	el/ser estorat lear estorat saulton	SS Representative)	S. CARRIER	al per th	I tem 50	SHIPPE	B. From-Project No.	ative)	to a relative precision deterrined enaly therily	H. ChemL.E.	N. Tare	19-76 19-58 19-58 27-58			
	1. FROM-(SHIPPER) 1127-21/2014 11 -1 2 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -		¥.,	MATERIAL DESCRIPTION	Iden tiftcations			Signature of Shipper (SS Representative)	1	ж. С	M. Gross	119-03 116-03 150-03 150-63			
-	1. FROM—(SHI Tr ss station: Main	ADDRESS: 11	4. BILL OF LADING NO.	10. MATERIAL DESCRIPTION	and Idea	12.	A. Transfer Authority	E. Signature of Ship	E. Medeurement Muthod eight in grans	G. Net WtL.E.	L Con No. 1	CC-15% U 59-30% U 50-11% U 50-11% U		30) - L	
	Bev. 5-1-60)	J	থম	ΕO		II	191	HS		<u>-</u>	K Lot No.	TCLANC TCLANC TCLANC			



ADDRESS REPLY TO: THE MANAGER U.S. ATOMIC ENERGY COMMISSION P.O. BOX 100 BCHENETTADY, NEW YORK 12301 AND REFER TO:

MAT: GPN

UNITED STATES ATOMIC ENERGY COMMISSION SCHENECTADY, NEW YORK 12301

October 5, 1964

RECEIVED

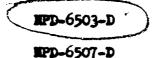
OCT 6 1964

ENGINEERING DATA APPROVAL PROCESSING

The General Manager Knolls Atomic Power Laboratory General Electric Company Schenectady, New York

Dear Sir:

Enclosed herewith are contract review absets, as listed below, prepared by an SS Facility holding purchase orders issued by you.



Please review the enclosed sheets and advise this office if there are any items which you consider to have been misinterpreted.

Very truly yours,

D. W. Short, Director Materials Division

Enclosures: As noted.

💛 ac: J. J. Coomes

RECEIVED

007 .004

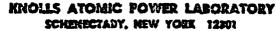
J. J. COOMES

RECEIVED

OCT 7 1964

T. W. KISSINGER

1.		
		0 7
Чц. ж	EXTRACT OF CONTRACT/PURCHASE ORDER DATA STATION <u>KAB</u> 1. Customer - KAPL	
	2. Contract or Purchase Order No NPD-6503-D	CCED
	3. Company Job No (APL-304 (NO0325) 7. Percent U-235 - 03+	REPRODUCED AT
	4. Project No SNR-407 M-00-6 6. Effective Contract Date + 7-14-64	не На
]	9. End lelivery late - S-14-64 5. Project Title - Core Dev. 10. Nuclear Material Draft No	
	6. Form of Material -	
	11. Authorized Input: Virgin467 4.161	
<u>ן</u>	Recycle	
	12. Who provides starting material? - RAPL	
	13. Utilization schedule required? (If "Yes", send a copy to SNR Materials Division) - $_{ m NO}$	
	14. Description of Work - (For Cores - include each Core No.) - Fuel Elements	
1		
_]		
	15. Responsibility for Shipper-Receiver Differences - M & C	
1	6. Financial Responsibility for SS Material - M & C	
	17. Responsibility for SS Scrap Recovery - KAPL	
	18. Special terms and conditions re: SS Materials - Return all recoverable material to KAPL	
•		
	19. Miscellanecus -	
I	Prepared By: F. W. Bartlett RECEIVED te: July 16, 1964 OCT 7 1964	
	T. W. KISSINGER	· ·
, 1		



Page _____ of ____

Date:	November 30, 1964
To:	Metals & Controls Suclear, Inc. Attleborg, Mass.
Subject: Inqui	Metals & Controls Nuclear, Inc. Attlebore, Mass. Order No. NED 6503-D ry To Vendor No. 2

Action Required by C & P Type Contract Source of Funds Shop Order No. Dollars, This Change (Est.) Dollars, Accumulative (Est.) Dollars, Presently Committed

Transmit to Vendor

4.5

Fixed Price	
AEC	
79901725	
1950	
9065	
7115	

(SIGNATURES REQUIRED)

Programming Cost and Budget Control Approved: 7th Lovel Manager 6th Lovel Manager 5th Lovel Manager 4th Lovel Manager Genoral Manager

12 U m 211

DISTRIBUTION:

HF Brown WJ Van Matten **BA Siergiej** TW Kissinger/RP Doody G2-501

RECEIVED

DEC 2 1964

T. W. KISSINGER

CE. Klow IT / 156

KNOLLS ATOMIC POWER LABORATORY P. O. BOX 1072 SCHENECTADY, NEW YORK 12301 AREA CODE 518 TELEPHONE 393-4671 TWX 518-556-2393

TELEX (14-521

PAGE 2 OF 3

Date: Hovembar 30, 1964

To: Metals & Controls Ruclear, Inc. P. O. Box #898 Attleboro Massachusetts

Attention: Mr. J. White/J. Parker

Subject: Order No. EPD 6503-D Inguiry to Vender No. 2

References MPD 6503-D

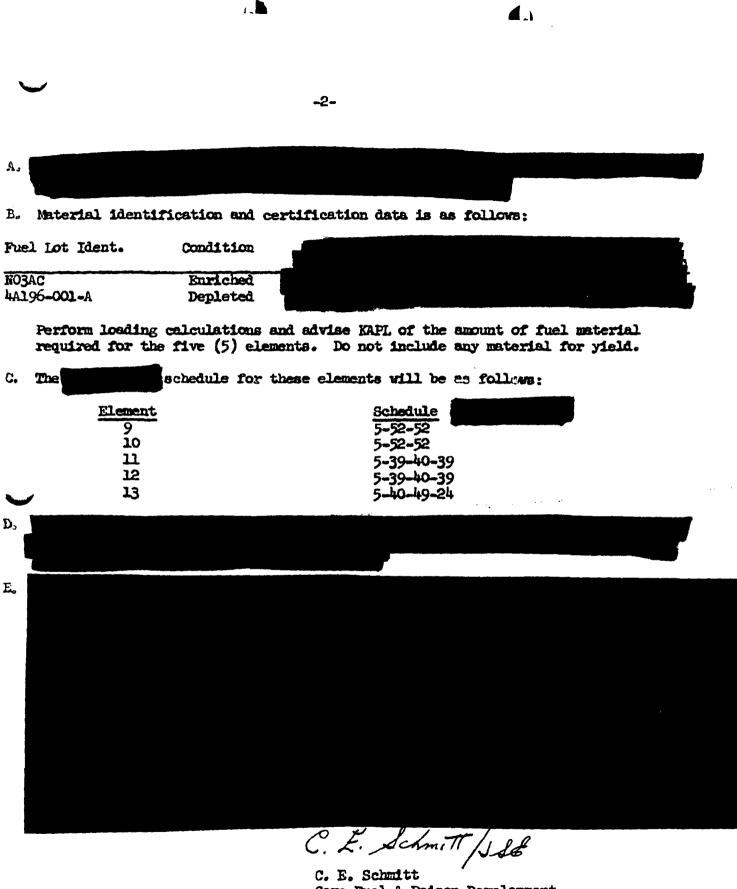
This inquiry supersedes IV #1 in its entirety.

- 1. General Electric intends to exercise the option of this contract and purchase one (1) filler as described in Item 4 at the price of \$122.50.
 - 2. Provide pack components for one (1) additional fuel element. Make the same as required for Item 1 of this order.
 - 3. Provide processing for one (1) additional fuel element according to the Technical Supplement, as revised berein,
 - 4. Material loading schedule for the remaining five (5) elements on the subject order is as follows:

	Fuel La	ot Identity
9	NOJAC	4A196-001-A
10	•	Ħ
11		*
12	p	•
13	**	Ħ

5. Revise the following items in the process outline for fuel element fabrication, KAPL 304, Rev. 0, dated June 29, 1964, and KAPL "Ordering Data" dated July 7, 1964.

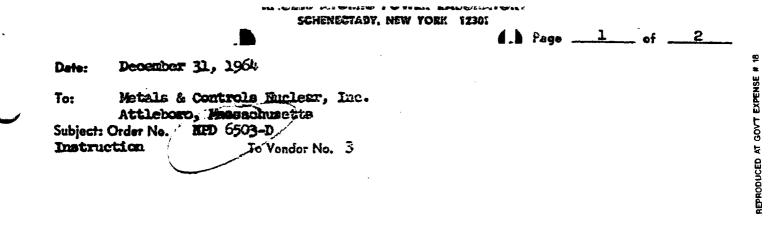
Cognizant Requester C. E. S.



Core Fuel & Poison Development NUCLEAR CORE OPERATION

CES:st

REPRODUCED AT GOVT EXPENSE # 18



Action Required by C & P Type Contract Source of Funds Shop Order No. Dollars, This Change [Est.] Dollars, Accumulative (Est.) Dollars, Presently Committed

Amend Contract	
Fixed Price	
AEC	
79901751	
1688.50	
8753.00	
7115.00	

Programming Cost and Budget Control Approved: 7th Level Manager 6th Lovel Manager 5th Level Manager 4th Lovel Manager General Manager

(SIGNATURES REQUIRED) 1/5/6 hatter

DISTRIBUTION:

62-309 RA Siergiej WJ Van Natten TH Rissinger V Shannon DW Short (RC Bisbee (5)

Cognizant Requester:

C. E. Schmitt

KAP 328B (4-64) REV. (L.Y. PART 2.

KNOLLS ATOMIC POWER LABORATORY P. O. BOX 1072 1.1 SCHENECTADY, NEW YORK 125. AREA CODE 518 TELEPHONE 393-667 TWX 518-556-2393 TELEX 014-521

2# PAGE 2 _OF. REPRODUCED AT GOVT EXPENSE

December 31, 1964 Date:

Metals & Controls Nuclear, Inc. To: P. C. Box #898 Attleboro Massachusetts

Attention: Mr. J. White/J. Parker

Subject: Order No. ITPD 6503-D Instruction to Vendor No. 3

Reference: NPD 6503-D, IV #2

The cost quoted by M&C on December 9, 1964, is considered fair and reasonable.

Amend the subject purchase order to include the work outlined in IV #2, NPD 6503, dated November 30, 1964.

KAPL will furnish the following fuel materials per your requirements for the completion of this order.

> Lot NO3AC 1041.0 grams net wgt. (enriched) 1046.8 grams net wgt. (depleted) Lot 4A196-001-A 2087.8

Total

RECEIVED

JAN 1 3 1965

J. W. KISSINGER

Cognizant Requester C. E. Schuit

KAP 328A (11-63) REV. (I. V. PART 1)

.P 464	, - B (10~63) RE	۷.								
	014 - 521 CODE 518		518 - 556 - 2393 HONE 393 - 6611	KNOLLS A	P.O. BOX	WER LABOR		PU SCHENECTA	JRCHASII DY, NEW Y	-
			OPERATED	BY THE GENERAL ELECTR	IC COMPANY UNDER	GOVERNMENT CONTRAC	T W - 3) - 109-ENG	352		
	SHOP OR			DATE ORDERED	VENDOR CODE	7		. [PURCHASE	ORDER NO.
				3/17/65	4611	SHOW NPD NO	. ON ALL PAC			6503-D
-	34 J Att] Att]	forest Leboro I: Mr	d Controls,] Street , Massachuset . J. White referred to a	its	1	SCHEN	OUSE BLDG. (ECTADY, NEV TTERHEAD ADDRESS.) CE – ACCOUN	M – 2 W YORK H RENDER INVOICES ITS PAYABLE	VER LA	o .
				F.O.8.		TERMS		E2 Certified DMS Reg.	d under	
QUE	STED ON SITE	DELIVERY C		ORDERED FO	E. Schnit	t 201	BIDG. E-1		BUYER H	Bisbee/cb
is c	ORDER SUB	IECT TO	GENERAL TERMS AND	CONDITIONS OF	ATTACHED PURC	HASE SUPPLEMENT	NO	FUt		
M	QUANTITY	UNIT	DELIVER TO:		(Building) (RO		UNIT PRICE	DISCOUN	T NET TOTAL
	13	-	order price Delete Item thereof the Fuel element Add Item 7 a Modify three Purchase Ord The total or decreased by order price	following: s. s follows: (3) for EPD 6517- der price and \$501.00, re	-Y.	substitute from KAPL	in lieu hereby			\$8,027.54 108.00
İ			Instruction				9 8 9 9		• • •	. \$8,135.50
		<u></u>				ELECTRI	2 C		EEIN R 25 1	/ E D 965
	_		From Enclosures)			T. W.	KISSIN	IGER

TELEPHONE 393-6611				JLLS ATOMIC POWER LABORATE Y P.O. BOX 1072		PURCHASING SCHENECTADY, NEW YORK 12301		
·	·		AIED BY THE GENERAL	ELECTRIC COMPANY UNDER G	UVERNMENT CUNTRACT W = 31 - 109-E	·····		
SHOP ORDER NO. M.R. NO. DA				ATE ORDERED VENDOR CODE			NPN 6503-D	
					SHOW NPD NO. ON ALL P AND CORRESPONDED			
TO	atele a	nd Controls	The s		-		Amendmen	t No. 2
P	lige 2		F.C		SHIP TO: KNOLLS ATO WAREHOUSE BLDG SCHENECTADY, N NG INSTRUCTIONS (USE LETTERHEAD ADDRES FINANCE - ACCOU EPAID SHIPMENTS F.O.B. SHIPPING POINT TERMS DC	. M - 2 IEW YORK (S:) RENDER INVOICES (NTS PAYABLE)	IN DUPLICATE TO	-
						DMS Reg.		
ESTED ON S	TE DEUVERY C	DATE	ORD	ERED FOR	BLDG.		BUYER	
					IASE SUPPLEMENT NO	FUI		<u> </u>
l		T						NET
QUANTI		DELIVER TO:		(WILDING)	(ROOM)	PRICE	DISCOUNT	TOTAL
		(Addit	ion #2") det	titled "Techni ed March 16, 1	cal Supplement 965.			
		(Addit: All other remain in Purchase Original i	ion #2") det terms and force and order Price	conditions of effect except Summery:	965. The original order as specifically an \$7,115.00	85 emende ended here	st to da sin.	te a re t
		(Addit: All other remain in Purchase Original J Increase 1	ion #2") det terms and force and arder Price sount of G by Previous	ed March 16, 1 conditions of effect except Summery: rder Amendments	965. The original order as specifically an	85 emende ended here	sa to da sin.	te are t



METALS & CONTROLS INC.

TEXAS INSTRUMENTS

File: KAPL-304 & 310 April 7, 1965 RECEIVED

APR 9 1965

J. W. KISSINGER

Knolls Atomic Power Laboratory P. O. Box 1072 Schenectady, New York 12301

Attention: Mr. J. J. Coomes, Manager Nuclear Core Materials Control

Subject: Utilization Schedule

Gentlemen:

In accordance with order requirements, the following represents our utilization schedule pertaining to material supplied by KAPL for use on purchase orders NPD-6517 and NPD-6503.

NPD-6517-D

- A. Wrought Zircaloy
 - 1. Received

	510 lbs.
2. Delivered in Product	
Elements	76 lbs.
3. On Hand	
	22.4 lbs.
Blanks	4.2
Raw Material	214.4
	11.6
Miscellaneous Scrap	35.0
Chips & Turnings	146.4
Total	434.0 16 RECEIVED
	APR 9 1965

J. J. COOMES

KAPL, Attention: Mr. J. J. Coomes Page 2 April 7, 1965											
В.	2ircaloy										
	1.	Received									
		Lot 637 Item 25 DB1491-28, Lot 24 Totm1	29	7,581 4,667 2,716 <u>2,500</u> 17,464	• • † 1						
	2.	Delivered i	n Product								
		Lot 637 Item 25 DB1491-28, Lot 24 Total	29	6,929 4,324 1,220 <u>1,547</u> 14,020	78						
	з.	On Hand									
		Lot 637 Item 25 DB1491-28, Lot 24 Total	29	206 313 1,493 <u>952</u> 2,964	11						
	4.										
		Lot 637 Item 25 DB1491-28, Lot 24 Total	29	30 3 1	grams " " grams						
C.	B ₄ C										

1. Received 500 grams Lot 41 366 grams 2. Delivered in Product 134 grams 3. On Hand

NPD-6503-D

A. Wrought Zircaloy

KAPL, Attention: Mr. J. J. Coomes Page 3 April 7, 1965 Α. 1. Received 1 piece 1 piece Total 136 lbs. 2. Delivered in Product Elements 39 1bs. 3. On Hand 19.6 .08. 11 33.0 44.4 11 Chips & Turnings Total 97.0 lbs. Β. Received 10 pieces 1. 1; 8 2. Delivered in Product On Hand 2 3. C. Zircaloy 1. Received Lot 24 15,170 grams 2. Delivered in Product 10,614 grams 3. Transferred to NPD-6517 2,500 grams 2,042 grams 4. On Hand 5. Process Loss 14 grams

Concerning the above material, we request:

- 1. Permission to burn all chips and turnings.
- 2. Instructions for the disposition of all solid scrap and material on hand.

KAPL, Attention: Mr. J. J. Coomes Page 4 April 7, 1965

We trust the above is satisfactory for your purposes. If there are any questions, feel free to call.

Very truly yours,

J. WHITE Contract Administrator Navy Nuclear Products

J₩/bв

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April 12, 1965

Metals & Controls, Inc. Perry Avenue Extension Attleboro, Massachusetts Attention: Nr. J. White Bubject: ZIRCALOY RESIDUE - NPD 6517 & NPD 6503 Reference: Utilization Schedule dated 4/7/65, J. White (M&C) to J. Coomes (KAPL) Centlement

Gentlemen:

Based on the referenced schedule, disposition of the material shall be made as follows:

Ship F.C.B. your plant to: Knolls Atomic Power Laboratory Warehouse - Building M-2 Schenectady, New York 12301 Attention: L. Newman/J.K. Clarke

NPD 6517

ţ

A.3 (On Hand) Frought Zircaloy

Elanks Row Material Niscellaneous Scrap		22.4 lbs. 4.2 lbs. 214.4 lbs. 11.6 lbs. 35.0 lbs.
	Total	287.6 lbs.
B.3 (On Hand) 2ircaloy		
Lot 637 Itam 25 DB14191-28, 29 Lot 24	Total	206 gas. 313 gas. 1,493 gas. <u>952 gas</u> . 2,964 gas.

April 12, 1965

C.3 (On Hand) B4C Lot 41 <u>134 gas.</u> Total 134 gas. <u>NPD 6503</u> A.3 (Wrought Zircaloy on Hand) 19.6 lbs. <u>33.0 lbs.</u> Total 52.6 lbs. 8.3

-2-

Permission is granted to burn and bury the 146.4 lbs. of chips and turnings listed in A.3 of MPD 6517 and 44.4 lbs. of chips and turnings listed in A.3 of NPD 6503.

All material shipped to EAPL shall be identified by applicable purchase order number and packaged accordingly.

Very truly yours,

2,042.0 gms.

T. V. Kiscinger Materials Control NUCLEAR CORE OPERATION

Twik/lap

bcc: R.C. Bisbee (2) J.K. Clarke

Notalo & Controls, Inc.

C.4 (Zircaloy

1626503



TEXAS INSTRUMENTS

INCORPORATED

File: KAPL-304 & 310 April 12, 1965

Knolls Atomic Power Laboratory P. O. Box 1072 Schenectady, New York

Attention: Mr. J. J. Coomes, Manager Nuclear Core Materials Control

Subject: Utilisation Schedule

Gentlemen:

In accordance with order requirements, enclosed are three copies of our Material Balance pertaining to the fuel material received for use on Purchase Orders MPD-6517-Y and 6503-D.

Very truly yours,

J. WHITE Contract Administrator Nevy Nuclear Products

JW/bs Enclosures (3)

cc: Mr. D. Short, SNRO (1)

PROJECT:	SNR-40700-00-6	DEPLETED MATERIAL KAPL- N-003	BALANCE 304		RECEIVED APR 1 4 1965 .T. W. KISSINGER			
CONTRACT:	NPD-6503-D			Apri				
			SS GRAMS		U-235 GRAMS			
<u>RECEIF</u> K	2 <u>TS</u> : ZA-KAB-26		634		Dep1.			
<u>REMOVA</u> K	LS: AB-KZA-40 4%		530		Dep1.			
	E TO ACCOUNT FOR 07		104		Dep1.	_		
INVENT		Net	- 		%	<u>u-235</u>		
L	ot 4A-196-001-A 🦟	173	60.56	104	.22	Dep1.		

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N & Hilm

ENRICHED	URANIUM					
MATERIAL	BALANCE					
KAPL-304						
<u>N-00325</u>						

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PROJECT: SNR-40700-00-6

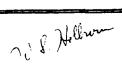
CONTRACT: NPD-6503D

April .9, 1965

1.

	SS GRAMS	U~235 GRAMS
RECEIPTS:		
KZA-KAB-3	365	340
PZC-KAB-1 or	500	466
KZA-KAB-5 or	137	128
FBZ-KAB-1 🔨	312	304
KZA-KAB-27 The	626	612
TOTAL RECEIPTS:	1,940	1,850
REMOVALS:		
КАВ-КZА-7СС ^{01<} КАВ-КZА-40 <i>с</i> —	1,130 520	1,065 510
KAD-KZA-40		
TOTAL REMOVALS	_1,650	1,575
BALANCE TO ACCOUNT FOR M	290	275

	INVENTORY:	<u>Net</u>	%	<u>SS</u>	7	U-235
	L21-PT	287	56.10	161	93.18	150
	Lot 233	10	56.85	6	93.05	5
	Lot 238	7	55.21	3	93.26	3
	Lot 239	6	55.05	3	93.26	3
~ ^	Lot 240	10	53.75	· 5	93.13	5
FONDLR	N-04AT	6	55.17	3	93.17	3
	N-05AT	6	54.87	3	93.17	3
	N-07AT	2	54.90	1	93.20	1
	Lot 242	3	54.06	2	93.19	1
	N-03AC	172	60.15	103	97.68	101
	TOTALS	509		290 <i>5</i> .<		275



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REPRODUCED AT GOVT EXPENSE # 18 1 _OF_ PAGE

NOLLS ATOMIC POWER LABORA. J P. O. SOX 1072 SCHENEGIADY, NEW YORK 12301 AREA CODE 518 TELEPHONE 393-6611 TWX 516-656-2393 TELEX 014-521

Date: April 15, 1965

To:

Metals & Controls, Inc. Perry Avenue Extension Attleboro, Massachusetts

Mr. J. White Attention: Subject: Order No. NPD 6503 Information to Vendor-No. 9

Reference: Utilization Schedule dated 4/12/65

You are requested to ship to KAPL the following items listed as "investory" in the referenced utilization schedule:

Depleted

1 Item - 104 gms SS weight

Enriched

10 Items - 275 gms U-235 weight

No shipment shall be made except by proper authorization and release by AEC/SNR.

RC Bisbec (5) HL Runion DW Short

TMussing! Cognizant Requester



., ADDRESS REPLY TO: THE MANAGER U.S. ATOMIC ENERGY COMMISSION P.O. BOX 104 SCHENECTADY, NEW YORK 1201 AND REFER TO:

MAT:GTM

UNITED STATES ATOMIC ENERGY COMMISSION SCHENECTADY, NEW YORK 12301

AND 6503

May 19, 1965

The General Manager Kanlis Atomic Power Laboratory General Electric Company Schemoctady, New York

Dear Sir:

This office received copies of the uranium utilization schedules for KAFL Purchase Orders NPD-6503B, 6517Y, and 6818Y.

We have confirmed the data on the vendor's schedule, except for the accuracy of the balance on hand, and we have found no discrepancies in the schedules.

Final close-out of the above-mentioned purchase orders is dependent upon completion of any necessary action to dispose of the vender's balance on hand. It is suggested that KAPL take such action, as may be necessary and is within the terms of the applicable purchase orders, to assist in the reduction of the balance of material on hand at the vendor's site.

Upon completion of the removal of the balance on hand, this office will, when requested, complete the review of the utilization of material under the above purchase orders.

Very truly yours,

B. W. Short, Bire. Materials Division RECEIVED MAY 20 1965 J. J. COOMES

REPRODUCED AT GOVT EXPENSE # 18

cei J. J. Coopes

1,206503

July 27, 1965 HC-322

The Receptor Schemetady Nevel Resctory United States Atomic imargy Companyion Schemetady, New York

Subject: Completion of Greers MPD 6503 and 6517

Meforences: L. Letter, E. Peterson (SER) to J. McLennie (KAPL), duted 7/22/64

2. Lotter, D.W. Scort (MER) to J.J. Coones (RAPL), cetes 5/19/65

Lear Siri

KAPL Orders MPD 6903 and 6917 for processing fael bearing motorials have been compluted by Metals and Controls, Inc. The schedules have been reviewed and no discrepancies were moted. The excess material moted on the schedules has been returned to KAPL and quantities verified as correct.

Is accordance with Asference (1), KAPL requests verification of the schooles so the orders may be completed.

Very truis years,

Uriginal a glea by J. J. Coomes

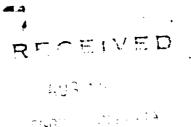
J. J. Courses, Managur Matoriale Control BUCLAR CORE OFERATION

35/102/200

ce: Loke ibort (2)

bec: R.C. Bisbee R.G. Hobday R.A. Kesselring R.D. Myklebust C.R. Stahl





ENDER CONTRACTOR

August 17, 1965

The General Manager Maulis Atomic Fower Laboratory General Electric Company Schemectady, Rev York

Dear Sir:

MAT: OTH

Meterence is mude to your several letters, detailed below, whereis you requested verification of the vendor's wranian willightion schedules submitted under the indicated KATE jurchase orders.

- 1. Letter: Symbol HC 374 dated Haly 6, 1965; KLPL Furchase Order MPD-5549.
- 2. Letter: Uyubol MC 362 dated July 27, 1965; MAPL Furchase Order MPD-6503.
- 3. Letter: Symbol MC 352 datum July 27, 1985; 30 PL Parchase Seder NF9-6517.
- Letter: Eyrawii MC 358 dated Auly 22, 1969; KAPL Purchase Order MPD-5653.
- 5. Letter: symbol MC 30% datud Sugart 10, 1965; KAFL Furdiase Order SPD-7371.
- 5. Letter: Symbol RC 305 deted August 10, 1965; SAPL Parobase Order 2-431.

The date on the vendor's schedules have been confirmed and we find as discrepency is the schedules.

The above information is furnished so that KAFI can proceed with the final close out of the above sentioned purchases orders.

The General Manager -2-

August 17, 1965

Very truly yours,

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D. N. Short, Director Materials Division

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cc: J. J. Coomes

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<u> </u>							CONSISTS OF _		PAGES.	<u> </u>	<u> </u>

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RECEIVED

JUN 17 1964

T. W. KISSINGER

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\P 464 - 8 (10 - 63)	RE∀.			PURCHASE	ORDER		·	- · .
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3 OF 3 PAGES. VENDOR METALE & CONTROLED INC. PURCHASE ORDER NO. 5653-D

EXPENSE

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REPRODUCED AT

2. Delivery Requirements

KAPL requires and it is essential that delivery be made as follows:

- A. Item 2 on or before two (2) weeks after receipt of order.
- B. Items 1 and 3 on or before sixteen (16) weeks after receipt of ordes material, process approval, and Special Muclear Material License.

Any work performed by Seller before process approval shall be at Seller's risk.

3. Terms and Conditions of Purchase

Purchase Order Supplement, General Terms and Conditions of Purchase AEC-164, is hereby modified as follows:

A. Add Article 45 entitled "Modification to Terms and Conditions of Purchase For Government-Furnished Special Michaer Interials Only," dated May 27, 1964 except subparagraph D under paragraph B.1 which is modified as follows:

"Seller's lightlity for the 0235 content the seller shall compare after completion of the weighing operation (Step 7 of Attachment 1); however, all solvents and residues up to this point shall be hald for KAPL dispesition. Seller shall advise KAPL of the weight of Urunium (Step) upon completion of the weighing operation."

- B. Under the provisions of Article 9 entitled "Jovernment Property" and Article 45 entitled "Modification to Terms and Conditions of Purchase For Government-Furnished Special Musleer Materials Only", Special Electric vill furnish to Seller the following items of Special Micherr Material for use in connection with and under the terms of this artise:
 - (1) 5.49585 kgs of Uranium (5.11956 kgs U235).
 (2) 6.09008 kgs of Uranium (42.86358 kgs U235).

Representative Radioactive surface contamination is set forth in Attachment #3 dated Pebruary 17, 1964.

Material will be shipped to Seller upon formal motification of Seller's receipt of the Special Nuclear Material License (Title 10 of the Code of Federal Regulations).

Certified for national defense use under DMS Regulation No. 1. Seller is required to follow the provisions of DMS Regulation No. 1 and of all other applicable regulations and orders of BDSA in obtaining controlled materials and other products and materials weded to fill this order.

GENERAL 68 ELECTRIC

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CONTROL

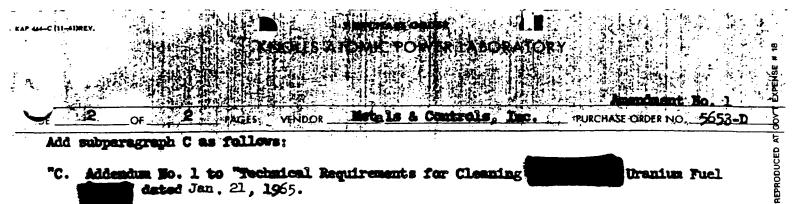
1.		
	EXTRACT OF CONTRACT/PURCHASE ORDER DATA STATION MAC 1. Customer - KAPL 2. Contract or Purchase Order No NPD 5653	CED AT LC
- 7	4. Project Nc SNR-40702-01-6 8. Effective Contract	
K	6. Form of Material - U 11. Authorized Input: Virgin Recycle See Line 18	<u>U-235</u>
E		als Division) - No
	 15. Responsibility for Shipper-Receiver Differences - N/A Financial Responsibility for SS Material - M&C is responsible for supplied up to and including the weighing operation. After this op assume uranium responsibility. 17. Responsibility for SS Scrap Recovery - N/A 	the number of will
	18. Special terms end conditions re: SS Materials - KAPL to supply 8,791 fully enriched uranium	
	19. Miscellaneous -	
	Prepared By: F.W. Eartlett/ Bastlett	
-		

1P 464 - 8 (10-63) R	EV,			PURCHASE OF	DER	1.2			- ,-
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		o, Massachus	etts			HOUSE BLDG.			
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JAN 29 1935

T. W. KISSIMGLE



"C. Addendum No. 1 to "Technical Requirements for Cleaning" Uranium Fuel dated Jan. 21, 1965.

All other terms and conditions of the original order as anended to date are to remain in force and effect except as specifically smended herein.

Purchase Order Price Summary:

Original Amount of Order		\$21,210.00
Increase by this Amendment No. Revised Amount of Purchase	. 1	764.00
Revised Amount of Purchase	e Order	21,974.00







UNITED STATES ATOMIC ENERGY COMMISSION SCHENECTADY, NEW YORK 12301

ADDRESS REFLY TD: THE MANAGER U.S. ATOMIC ENERGY COMMISSION P.O. BOX 1009 SCHENECTADY, NEW YORK 1200 AND REFER TD:

MAT: DIS

February 16, 1965

FEB 17 1965

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Netals and Controls, Inc. N & C Muchaer Products Group 7.0. Box 898 Attleboro, Massachusetts

Attention: Mr. W. S. Holburn

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Gentlemen:

Reference is made to your letter of February 2, 1965, in which you requested blanket approval to ship enviewed under KAFL Purchase Order (MPS-5653), in accordance with the specific provisions detailed in your communication.

Authorization is hereby granted to ship the material to KAPL in strict accordance with the following requirements:

- 1. Two separate shipments will be made, with the first limited to 9 kgs. U-235, and the second to involve approximately 39 kgs. U-235.
- 2. Each shipment to be made in exclusive use scaled vehicle, to be accompanied by ABC courier.
- 3. Naterial to be packed in KAFL 30 gallon drum. Type II (BE-1518) shipping containers with a maximum of 350 per container, and KAFL 55 gallon drum, Type III (BE-1518) shipping containers with a maximum of 500 per container. Maximum loading per drum will be approximately 3 kg. U-235.
- 4. The KAPL Type II and III, BE-1518 containers are approved for a maximum of 5.5 kg. U-235 and assigned 2.0 equivalent radiation units each. **PECEIVED**

Metals and Controls, Inc.

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7. 7. February 16, 1965

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REPRODUCED AT GOV'T EXPENSE # 18

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5. The first shipment of 9 kgs. should be packed in a maximum of 4 containers, and the second shipment of approximately 39 kgs. should be packed in a maximum of 16 containers, and these containers must be secured to the floor or walls of the truck to prevent shifting or damage in transit.

-2-

Flease let me know if you have any questions regarding the above requirements for making the shipments.

Very truly yours,

D. W. Short, Director Materials Division

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bcc: J. J. Coomes, KAPL

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J. H. Barry, NR-SNR P. F. Schuster, NR-SNR

R. L. Fox, KAPL

			PURCHASE	RDER				
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APR 28 1965

J. J. COOMES

T. W. KISSINGER

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-64 - C (10/6	33) REV.			к	NOLLS A	PURCHASE		ABORA	TORY			EXPENSE # 18
$\mathbf{\vee}$						Metals	& Conti	rols. I	00.	 	ent No. 5653-	2 2
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Add D.	-	dum #	- 1, Rev	s follo . l, to ch 3, l	"Technic	cal Requi	rements	for Cle	eaning	τ	Fanium	

All other terms and conditions of the original order as amended to date are to remain in force and effect except as specifically amended herein.

Purchase Order Price Summary

Original Amount of Order	\$21,210.00
Increase by Previous Amendments	764.00
Increase by this Amendment No. 2	880.00
Revised Amount of Purchase Order	\$22,854.00

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* May 12, 1965

NPD 565

Notals and Controls, Inc. N & C Suclear Products Group 9.0. Box 898 Attleboro, Ressachments

.

Attestion: Mr. V. S. Holburg

Perference is made to your letter of April 30, 1965 which requested permission to lead wary 7 grams of U-235 sestained in residue from processing the on Contract HPD-5653-D.

We concur with your finding that 18 would not be economical to recover the referenced material, and permission is hereby granted to land bury the material at an approved buriel site.

Yery truly yours,

ا قراد ما م

D. W. Short, Birestor Monstele Rivision

Original Signed By -G. F. MORGAN

cc: J. J. Coomes/ T. W. Kissinger, KAPL

File: 3.1.1 KAB Survey Suspense

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	Materials	Materials .			_
	Shephend:1r	Morgan for Short			
DATE	5/12/65	5/12/65	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	 	

TEL A.DO-818 (Ber. 9-51)

G. S. OFFERANCE PRINTING OFFICE ___ 30---02783-8

 RECEIVED

21 APR 1965

WM. J. GALLAGHER

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TEMINSRO S. AL

4-20+65 142P

ATT MR D & SHORTZME W J CALLAGHER

WE HAVE RESIDUE FROM STRIPPING UNDER CONTRACT NPE-5503-0. PROKED IN A 2 QUART BUTTLE AND CONTRINING APPROXIMATELY 7 GRASS U.-235. REQUEST PERMISSION TO INCLUDE THIS IN SHIPAGAY OF HUIL A 4-23-55. RETTLE BILL DE CONTAINED IN WOOD BUG.

CALLACE S HOLDFURY METALS AND CONTROLS INC.

This request discussed orally with W. J. Gallagher and J. H. Barry on 4/21/65. Gallagher requested that residue not be shipped on 4/23/65 shipment. Short Shoned Helburn and advised that material should be held at MAC pending further instructions from SNR/KAPL.

D. W. Short, Director Materials Division

cc: W.J. Gallagher

Pile: 1.1.5

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12:11 11:

REPRODUCED AT GOVT

COMPANY OR COMPONENT LOCATION NAME hCo_ ne ms 2-Ŵ TER GENZRAL ECTRIC QUIC -WHEN REP LOCATION FROM HCo COMPONENT 28 SJECT DUGED AT esi 19 Ĉ 561 3 Ne Lu 8 U 2 3 2 DATE DIAL. COMM. SIGNED **REPLY:** . DATE DIAL. COMM. SIGNED FN-754 (3 SHTS.) (2-64) - <u>F</u> ĩ, T <u>I E E E E E E E E E</u> F K K E E K Ŧ E

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26 APR 1965

WM. J. GALLAGHER

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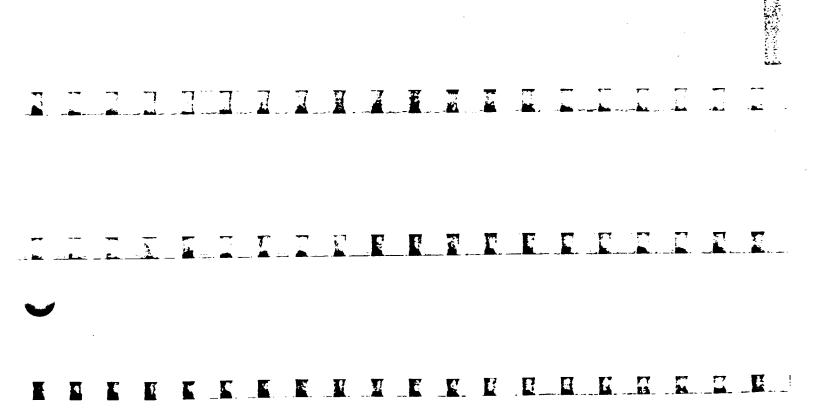
4-26-65 1254P

ATT W J GALLAGHER KAPL

REUR TWX OF 4-23-65 CONCERNING RESIDUE FROM NPD5653-D. VOLUME 1S APPROXIMATELY TWO QUARTS CONTAINED IN A TWO QUART POLYETHLENE BOTTLE. COMPOSITION IS A MIXTURE OF THE PLASTIC FROM REMOVED FROM THE ADDITION AND ACETONE USED TO REMOVE SINCE MOST OF THE ACETONE HAS EVAPORATED, THE CONTENTS OF THE BOTTLE IS A THICK SLUDGE.

WALLACE S HOLBURN METALS AND CONTROLS INC

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FILE - NPD 5653 Sugar AEC KAPL SCH TEXINSMC ABOR 4-26-65 1254P ATT W J GALLAGHER KAPL REUR TWX OF 4-23-65 CONCERNING RESIDUE FROM NPD5653-D. VOLUME 45 APPROXIMATELY TWO QUARTS CONTAINED IN A TWO QUART POLYETHLENE BOTTLE. COMPOSITION IS A MIXTURE OF THE PLASTIC REMOVED FROM AND ACETONE USED TO REMOVE SINCE MOST OF THE ACETONE HAS EVAPORATED, THE CONTENTS OF THE BOTTLE IS A THICK SLUDGE. Contains approx. 7 grams of U235 WALLACE S HOLBURN METALS AND CONTROLS INC EV Poly bottle will be pochaged within wooden box. ÷1 Ę ¥.1





JUL 19 1965

METALS & CONTROLS INC.

J. J. COOMES

TEXAS INSTRUMENTS

File: KAPL-293 & 305 July 15, 1965

Knolls Atomic Power Laboratory P. O. Box 1072 Schenectady, New York 12301

Attention: Mr. J. J. Coomes, Manager Nuclear Core Materials Control

Subject: Utilization Schedule

Gentlemen:

In accordance with order requirements, enclosed are three copies of our material balance pertaining to the fuel material received for use on Purchase Orders NPD 5653-D and NPD 6507-D.

Very truly yours,

· / li he te

J. WHITE Contract Administrator Navy Nuclear Products

JW/bs Enclosures (6) RECEIVED

JUL 1 9 1965

L. W. KISSINGER

cc: Mr. D. Short, SNRO (1)

MATERIAL UTILIZATION SCHEDULE

KAPL-29**3**

N-00319

Project: SNR-40702-01-6

Contract: NPD-5653-D

	SS Grams	U-235 Grams
RECEIPTS:		
SGE-MAC-215 KZA-KAB-11	113 51,466	106 47,942
Total Receipts	51,579	48,048
REMOVALS:		
KAB-KZA-18	13	12
KAB-KZA-38cc	9,715	9,050
KAB-KZA-45	28,225	26,292
KAB-KZA-52	13,619	12,686
Total Removals	51,572	48,040
BALANCE TO ACCOUNT FOR:	7	8
INVENTORY:		
*Stripping Sludge Rounding Difference (MUF)	7	7
Totals	7	8

* Approval to land bury this material was granted in letter D.W. Short to
W. Holburn dated 5/12/65. This will be done at a future date.

Mallace J Hollow Wallace S. Holburn

SS Materials Representative

4.1

July 14, 1965

NPD-652 MP

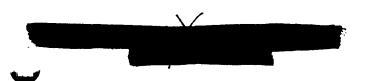
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When Separated from Enclosures, Handl Document As UNCLASSIFIED.

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	OPERATI	ED BY THE GENERAL ELEC	TRIC COMPANY UNDER	GOVERNMENT CONTRA	CT W - 31 - 109-ENG - 52		
SHOP ORDER NO.	M.R. NO.	DATE ORDERED	VENDOR CODE		D. ON ALL PACKAGES	NPD 651	NO. 7 - X
io Hetals & C	ontrols					OWER LABOR	ATOF
Page 2			1	SCHER LING INSTRUCTIONS (USE L FINAN	HOUSE BLDG. M-2 NECTADY, NEW YORK ETTERHEAD ADDRESS:) RENDER INVO NCE - ACCOUNTS PAYABI SHIPPING POINT ATTACH ORIGINA	LE	
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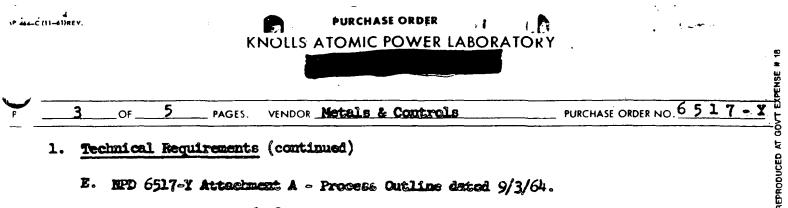
THIS	ORDER SUB	JECT TO	GENERAL TERMS AND CONDITION	S OF ATTACHED PURCHASE SUP	PLEMENT NO	FUN	DING:	
ITEM	QUANTITY	UNIT	DELIVER TO:	(WILDING)	(ROOM)	UNIT PRICE	DISCOUNT	NET TOTAL
5	3		dated 8/20/6	on KAPL Purchase Ord in strict accordance oresaid order." hase Order • • • • • CTIONS SHALL APPLY: ments 1 to NPD 6517-Y entity •	ier MPD 6517-Y e with the re-	(Price in price of	Items .	in the L, 2, & 3) \$11,258.00

M& C Draving 4-6925.

THIS ORDER CONSISTS OF ______ PAGES.



D.



- 1. Technical Requirements (continued)
 - E. NPD 6517-Y Attachment A Process Outline deted 9/3/64.
 - F. M & C Document 2-6908.
 - G. N& C Drewing 2-5324 as revised for NPD 6503-D.
- 2. Administrative Requirements
 - A. Seller shall perform all work under his USAEC Station Concept.
 - B. Work on Item 2 is not to start until KAPL release which is dependent upon Item 1 results. Release to proceed shall be granted within one (1) calendar week after receipt of Item 1 at KAPL.
- 3. Delivery Requirements

KAPL requires and it is essential that delivery be made as follows:

- A. Item 1 on or before three (3) calendar weeks after receipt of order and Government furnished property.
- B. Items 2, 3, 4, and 5 on or before two (2) calendar weeks after KAPL release to proceed with Item 2 work and receipt of Government furnished property.
- 4. Terms and Conditions of Purchase

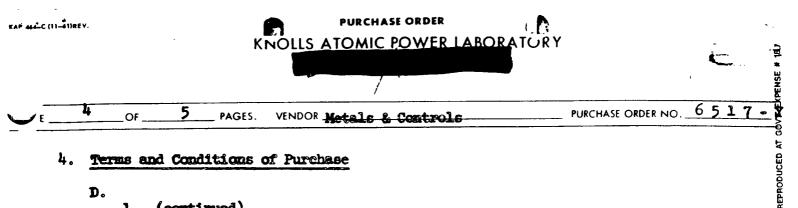
Purchase order supplement, General Texas and Conditions of Purchase AEC-164 is hereby modified as follows:

- A. Modification to Terms and Conditions of Purchase dated 4/1/64.
- B. Add Article 47 entitled "Government Furnished Zircaloy Material."
- C. Add Article 48 entitled "Modification to Terms and Conditions of Purchase For Government-Furnished Special Huclear Materials Only" dated May 27, 1964 except that all unused fuel material, including scrap, shall be returned with applicable certification and identification.
- D. Article 48 entitled "Modification to Terms and Conditions of Purchase For Government-Furnished Special Nuclear Materials Only" is hereby modified as follows:

Delete subparagraph 1. under Paragraph B. in its entirety and substitute in lieu thereof the following:

In the performance of the work under the resultant order, Seller shall l.

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4. Terms and Conditions of Purchase

- D.
- 1. (continued)

take all reasonable precautions to protect the health and safety of enployees and all members of the public and to minimize danger from all hazards to life and property, and shall, with respect to all work except that which is specified in Section 2 of this article, comply with all health, safety, and fire protection regulations and requirements (including reporting requirements) of the Schenectady Naval Reactors Office of the Commission. In the event that Seller fails to comply with said regulations or requirements. General Electric may without prejudice to any other legal or contractual rights of the Commission or General Electric issue an order stopping all or any part of the work. Thereafter a start order for resumption of work may be issued at the discretion of General Electric and the Commission and Seller shall make no claim for an extension of time or for compensation or damages by reason or or in connection with such work stoppage.

Add subparagraph 2. under Paragraph B. as follows:

2. All work involving chemical processing of special nuclear material prior to introduction litto core component production processes and all handling, storage, whipment, processing and disposal of nonrecyclable screp special nuclear material following its removal from core component

production processes performed at Seller's plant or at the plant of any lover tier subcontractor shall be performed in accordance with the requirements of a special nuclear material license which shall be obtained by Seller (or lover tier subcontractor if such work is to be performed by a lover tier subcontractor) under the provisions of Title 10 of the Code of Federal Regulations.

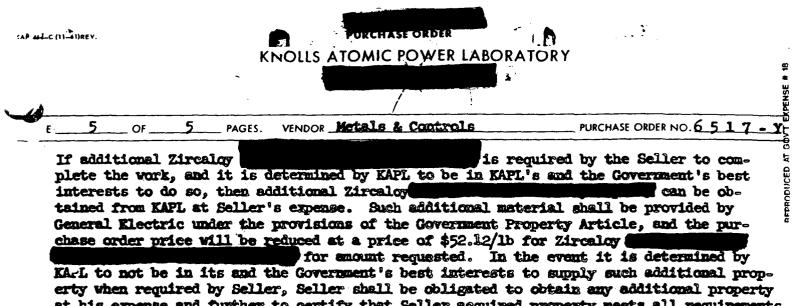
The above new paragraph 2. requires the former paragraph 2. to become paragraph 3.

E. Under the provisions of Article 9 entitled "Government Property" and Article 48 entitled "Modification to Terms and Conditions of Purchase for Government-Furnished Special Ruclear Materials Only" General Electric will furnish to Seller the following items of Government Property for use in connection with and under the terms of this order.

30 lbs 2 kg 3.0 kg Total U	Zircaloy Nuclear Fuel (depleted) («Nuclear Fuel Material (enriched 93%) (Nuclear Fuel Material (enriched 97%)
252 gm 6 es	Poison material Zircaloy wrought plate (Ingot CM-1007).
•	Shipping containers

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erty when required by Seller, Seller shall be obligated to obtain any additional property at his expense and further to certify that Seller acquired property meets all requirements of the order, or if no requirements are so stated in the order, then Seller shall certify that Seller acquired property is identical in all respects to the first supplied KAPL property.

5. Quality Control Requirements

Acceptance or rejection of Items 1, 2, and 3 shall be based on Seller's adherence to the approved process outline.

6. Security Requirements

Your attention is directed to the fast that this order covers work classified as Confidential - Restricted Data. Security requirements that apply to this order are contained in Article 17 of ARC-164. The information contained in the document sttached entitled "Supplementary Security Provisions" identified as Attachment #2 is provided to assist you in meeting the aforesaid security requirements.

Certified for national defense use under the IMS Regulation No. 1. Seller is required to follow the provisions of IMS Regulation No. 1 and of all other spplicable regulations and orders of BDSA in obtaining controlled materials and other products and materials needed to fill this order.

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"б				Governmen IV fil in s	ns: nt furmished be accordance with					\$ 1,096.00
			by \$1,576.0	0 resulti	e of \$11,258. ng in a total	revised orde			0 • 0	\$12,834.6

anendment

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RECEIVED

SEP 28 1964

T. W. KISSINGER

PURCHASE ORDER

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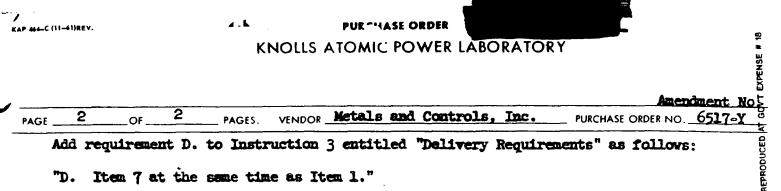
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E	2	OF	2	PAGES.	VENDOR MATELS & CONTROLS	PURCHASE ORDER NO.
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ada	regui	renex	t H to) Des truc	ction 1 extitled "Technical F	leguirements' as follows:
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Ađđ	requi	renez	t C ta) Instruc	stion 4 entitled "Delivery Re	quirements" as follows:
" <u>.</u>				_	te da or before ouse (1) calen 6517-I."	dar week after receipt of
					ms of the original order are led herein.	to remain in force and effect

Original Amount of Order\$11,258.00Increase by this Amendment No. 11,576.00Revised Amount of Purchase Order . . .\$12,834.00



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	2		Item 7 at x total orden Add Item 7 Nuclear fus The total c	o increas price by as follow al element order pric	s (#11 and #11 e of \$12,834.0	ereby increa considerati 2) 20 is hereby	using the ion thereof			\$1, 333.
			of Add require Bequirement "I. MPD 65	ment I. t s" as fol	o Instruction lows: nical Supplem A & B thereto	ent #2 deted	"Technical 10/1/64	PAGES.	• • •	\$14,1 67



"D. Item 7 at the same time as Item 1."

Modify requirement E of Instruction 4 entitled "Terms and Conditions of Purchase" by additions of the following items to the list of Government furnished material:

"400 grams (total U weight) 820 grans

Nuclear Fuel (depleted) Zircaloy

All other terms and conditions of the original order as smelled to date are to remain in force and effect except as specifically smended herein.

Purchase Order Price Summary

Original Amount of Order	\$11,258.00
Increase by Previous Amendments	1,576.00
Increase by this Amendment No. 2	1,333.00
Revised Amount of Purchase Order	\$14,167.00

GENERAL 28 ELECTRIC

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3	2		parchear Incl						1			\$1,498.00
8	2		The total or by \$1,863.00	der pri , resul	ting	\$14,167.0 in a total	revised	i order p	rice			\$1,498.00'

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NOV 9 1964

T. W. KISSINGER

PURCHASE ORDER

KAP 464-C (11-61)REV.

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NOLLS ATOMIC POWER LABOR ORY

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AP 464 -	- - 8 (10~63) RI	EV.	·	. 🛃	PURCHASE ORD	er LD			
	014 - 521 CODE 518		518 - 556 - 2393 PHONE 393 - 6611	KNOLLS 7	P.O. BOX 107	TO	•	URCHASIN	-
			OFERATE	D BY THE GENERAL ELECT	TRIC COMPANY UNDER GOM	RNMENT CONTRACT W-31-	109-ENG52		<u> </u>
								PURCHASE C	ORDER NO.
	SHOP OR		M,R. NO.	DATE ORDERED		HOW NPD NO. ON A AND CORRESPO	NDENCE	NPD 65	17-Y
QUEST	Pag	_	Controls, In	F.O.B. ORDERED I	BILLING IN ON PREPAI	ISTRUCTIONS (USE LETTERHEAD / FINANCE - AC > SHIPMENTS F.O.B. SHIPPING P TERMS	ATOMIC PO ILDG. M-2 Y, NEW YORK NODRESS:) RENDER INVOICE COUNTS PAYABLE	WER LAB	
is C	RDER SUB.	JECT TO	GENERAL TERMS AN	D CONDITIONS OF	F ATTACHED PURCHAS	SUPPLEMENT NO	FU		
EM	QUANTITY	UNIT	DELIVER TO:		(WILDING)		UNIT	DISCOUNT	NET TOTAL
			by \$1,955.0), resulting	f \$16,030.00 i is a total re Instruction 1	vised order p			\$350.00 \$17,985
			æv. C" in l	Lieu of "166	" by substitut F213, Rev. B." struction 1 en	3			
			Requirements	" as follow					
			Add require	ents F and (G to Instructi	on 3 entitled			
					THIS CODER CO	DNSISTS OF	3 PAGES.		
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AP 444-C (1)	1 -41)REV.	· ·		K.	NOLLS	 		ORATORY	•	
			-					F	Âmend	ment. #4
/ .3F	3	OF	3	PAGES.		Netals	& Control	ls, Inc.	PURCHASE ORDER NO	

"T. Items 9 and 11(A) on or before one (1) calendar week after receipt of material and installation of Item 6.

G. Item 11(B) on or before four (4) calendar days after completion of Items 9 and 11(A)."

REPRODI

Nodify requirement E of Instruction 4 entitled "Terms and Conditions of Purchase" by addition of the following items to the list of Government-Furmished Material:

'3 pieces	Zircaloy
30 pieces	Zircaloy

All other terms and conditions of the original order as amended to date are to remain in force and effect except as specifically amended herein.

Purchase Order Price Summery

Original Amount of Order		. •	\$11,258.00
Increase by Previous Amendments			4,772.00
JIncrease by this Amendment No. 4			1,955.00
Revised Amount of Purchase Order,	• •		\$17,985.00

G	EN	E		(22) (26)	EL	E	CŢ	R	I C	
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KNOLLS ATOMIC POWER LABORAT

Date: September 2, 1964

To: M&C Huclear Attlebert, Mass. Subject: Order No. MPD 6517-X Instruction Io Vendor No. 1

Action Required by C & P
Type Contract
Source of Funds
Shop Order No.
Dollars, This Change (Est.)
Dollars, Accumulative (Est.)
Dollars, Presently Committed

Transat	it to	Vendor	

Fixed Price	
AEC	-
79107223	
\$ 700.00	
\$11.985	
\$11,285	

(SIGNATURES REQUIRED)

Programming Cost and Budget Control Approved: 7th Level Manager 6th Level Manager 5th Level Manager 4th Level Manager General Manager

DISTRIBUTION:

HL Ramion WJ Van Natten 62-309 CT De Groat KV Jones (5) JJ Coome EO Pelyo

RECEIVED

- SEP 8 1964
- J. W. KISSINGER

P. R. Mertens

KAP 3288 (9-63) REV. (1. V. PART 2)

Cognizant Requester:

KNOLLS ATOMIC POWER LABORATORY P. O. BOX 1072 SCHENECTADY, NEW YORK 12301 AREA CODE 518 TELEPHONE 393-6611 TWX 518-556-2393 TELEX 014-521

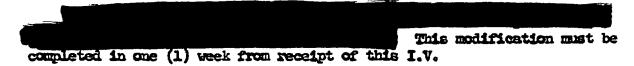
Date: September 2, 1964

To: Metals & Controls Nuclear P. O. Box #898 Attleboro Massachusetts

Attention: Hr. F. Sherman

Subject: Order No. NPD 6517-Y Instruction to Vendor No. 1

Reference: Telecon between P. R. Mertens, C. DeGroat, and Fred Sherman, 8/31/64.



Enclosure

REPRODUCED AT GOVT EXPENSE # 18

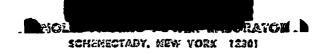
OF 2

PAGE 1

Cognizant Requester: P. R. Mertens

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REPRODUCED AT GOV'T EXPENSE # 18



8

Date:	September 28, 1964
Te:	Notale & Controle Maricar
Subject	Attleboro, Mass. Order No. MPD 5517-Y
	To Vender No.

RECEIVED OCT 1 1964 .T. W. KISSINGER

Action Required by C & P
Type Contract
Source of Funds
Shop Order No.
Dollars, This Change (Est.)
Dollars, Accumulative (Est.)
Dollars, Presently Committed

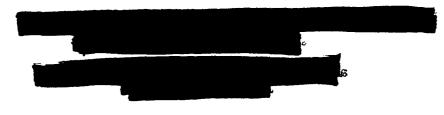
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\$ 12,834

Programmi	ng
Cost and B	udget Coatro!
Approved:	7th Level Manager
	6th Level Manager
	5th Level Manager
	4th Level Manager
	General Maneger

(SIGNATURES REQUIRED) 9130/64 an

DISTRIBUTION:

WJ Ven Matten HL Runich RA Siergiej JJ COOMES 62.309 TW Kissinger/RP Doody 9/30/64 Di Short And WR Plant File LD.



P. R. Mertens

KAP 3286 (9-63) REV. (1. V. PART 2)

Cognizant Requester:



KNOLLS ATOMIC POWER LABORATORY P. O. BOX 1072 SCHENECTADY, NEW YORK 12331 AREA CODE 513 TELETHONE 393-6611 TWX 516-556-2393 TELEX 014-521 PAGE 2 0F 2 PAG

Date: September 20, 1954

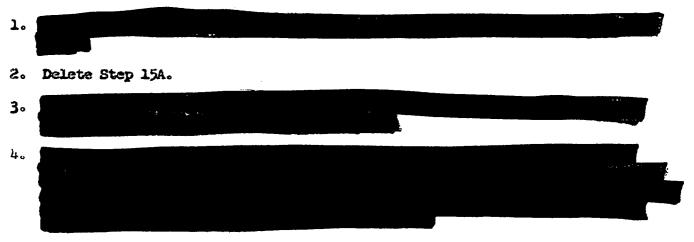
To: Metals & Controls Nuclear Attleboro, Massachusetts

Attention: Mr. J. White

Subject: Order No. NPD 6517-3 Instruction to Vendor No. 3

Reference: NPD 6517-Y, I. V. No. 7

Fabricate two (2) fuel elements (11 & 12) using the process ouwline included as Attachment A to NFD 6517-Y with the following exceptions to Part B of the process outline:



5. Delete Step 23.

es described in IV No. 2 and the same data and certification as described in Item 4 2 5 of NFD 6517-Y is to be supplied to MAFL by the vendor.

Fabrication of these two fuel elements should coincide with the fabrication of the first five (5) fuel elements in NFD 6517-Y without any change in the original schedule. KAPL will supply 600 grams of depleted fuel material and 2.4 lbs. of Zircaloy-

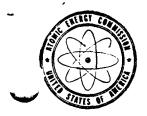
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Metals & Controls Inc.				AT DESTI	NATION	DES	IRED	1 10	KZA-K	MATERIA	
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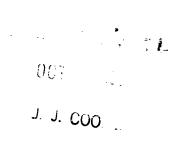
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ADDRESS REPLY TO: THE MANAGER U.S. ATOMIC ENERGY COMMISSION P.O. 80X 1493 SCHENECTADY, NEW YORK 12301 AND REFER TO: MAT: GFM UNITED STATES ATOMIC ENERGY COMMISSION SCHENECTADY, NEW YORK 12301

October 21, 1964

6.)



REPRODUCED AT GOVT EXPENSE # 18

The General Manager Knolls Atomic Power Laboratory General Electric Company Schenectady, New York

Dear Sir:

Enclosed herewith is a purchase order data review sheet for KAPL Purchase Order No. NPD-6517-Y as prepared by SS Facility KAB (Metals and Controls, Inc., Nuclear Products Group).

Please review the data sheet and advise this office if there are any items which you consider to have been misinterpreted.

Very truly yours,

11 L L 6 1. 1.

<u>____</u>

and a second
D. W. Short, Director Materials Division

1

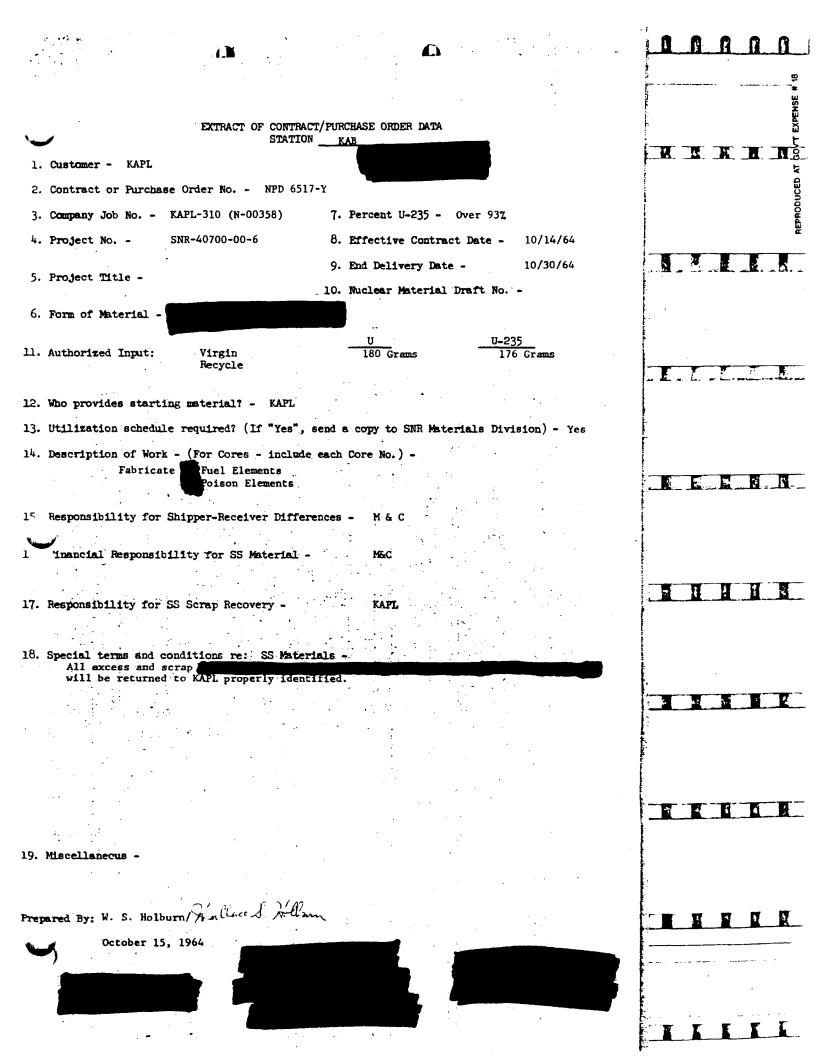
Enclosure: As noted

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E

C

cc: J. J. Coomes



October 28, 1964 NC-310

The Manager Schenectedy Maval Reactors Office U. S. Atomic Energy Commission Schenectedy, New York

Subject: NPD 6517-Y

Reference: Contract Review Sheet dated October 15, 1964

Doar Sir:

KAPL has reviewed the referenced review sheet and considers Items 6, 7, 8 and 11 to be not in accord with the purchase order.

The variances are as follow:

Item 6 - Enriched and depleted fuels were supplied.

Item 7 - Both 935 and 975 meterial involved.

Item 8 - Purchase order issued 9/4/64.

Item 11 - Purchase order authorized 2.0 Kgs depleted and 3.0 Kgs enriched.

Very truly yours,

J. J. Coomes, Manager NC Materials Control NUCLEAR CORE OPERATION

JJC/TWK/V

cc: D. Short (2)

(P 464 - B (10 - 63) I	FV								
				PURCHASE	• 4.1				
ELEX 014 - 521		518 - 556 - 2393	KNOLLS	ATOMIC PC	WER LABONAT	ORY	PU	RCHASIN	G g
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		OPERA	TED BY THE GENERAL EL	ECTRIC COMPANY UNDER	GOVERNMENT CONTRACT W-	31 - 109-ENG	-52		L.
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GENERAL CONSISTS OF _____

PURCHASE ORDER HOLLS ATOMIC POWER LABORA DRY

18 SE

Aa	endment #5
EOF PAGES. VENDOR Metals & Controls, Inc PURCHASE ORD	ER NO. 6517-Y
"H. Item 12 shall be complete on or before November 30, 1964."	ICED AT GO
All other terms and conditions of the original order as amended to date are	to remain in

All other terms and conditions of the original order as amended to date are to remain in force and effect except as specifically smended herein.

Purchase Order Price Summary

KAP 464-C (11-61)REV.

Original Amount of Order	\$11,258.00
Increase by Previous Amendments	6,727.00
Increase by this Amendment No. 5	624.00
Revised Amount of Purchase Order	\$18,609.00



Exolls atomic power laboratory

SCHENESTADT, NEW YORK 12301

Date: Hovenber 25, 1964

To: Metals and Controls Nuclear, Inc. Attleboro, Massachusetts Subject: Order No. NPD 6517-Y Instruction To Vendor No. 23

i '

Action Required by C & P Type Contract Source of Funds Shop Order No. Dollars, This Change (Est.) Dollars, Accumulative (Est.) Dollars, Presently Committed

Amend	contract	
Fixed	Price	
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21,951		
19,539		 <u></u>
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(SIGNATURES REQUIRED)

Programming **Cost and Budget Control** Approved: 7th Loval Manager 6th Lovel Manager 5th Level Manager 4th Level Manager General Manager

Taile 12/7/64 atter

DISTRIBUTION:

HF Brown WJ Van Natten JJ Coomes TW Kissinger/RP Doody K Jones DW Short Due 12/10/64 RA Sierglej RG Townsend H Margulis

Cognizant Requester: N.J. Cum

2

KNOLLS ATOMIC POWER LABORATORY P. O. BOX 1072 SCHENECTADY, NEVY YORK 12301 AREA CODE 518 T(LEPHONE 393-6611 TV/X 510-556-2393 TELEX 014-521

Date: November 25, 1964

Te: Metals and Controls Nuclear, Inc. P.O. Box #898 Attleboro, Massachusetts

Attention: Mr. J. White/J. Ross

Subject: Order No. NPD 6517-Y Instruction to Vendor No. 23

Reference: ATTACHMENT #2 TO KAPL TRIP REPORT H. RUNION TO MandCN, 11/12/64.

INQUIRY TO VENDOR #22

1. Fabricate two (2) "Top Insert" Devices per attached Technical Supplement #22.

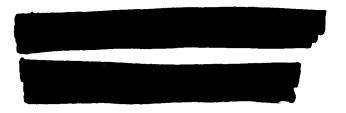
2. 3.

- 4. Fabricate fuel and poison elements (total 9) to be made under existing contract Items 2 and 3 per attached Technical Supplement, Paragraph 4.
- 5. Fabricate two (2) nuclear fuel elements per paragraphs 5 and 6 of attached Technical Supplement.
- 6. Delivery is required as follows:

1, 2, and 3 above, five (5) working days after receipt of authorization to proceed.

4, 5, above, ten (10) working days after receipt of authorization to proceed.





Cognizant Requestor: 1. J. C.

2

OF

PAGE 2

GENERAL ELECTRIC COMPANY KNOLLS ATOMIC POWER LABORATORY SCHENECTADY, NEW YORK 12301

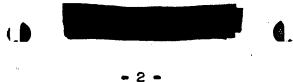
November 23, 1954

TECHNICAL SUPPLEMENT 5/22, REV. 1

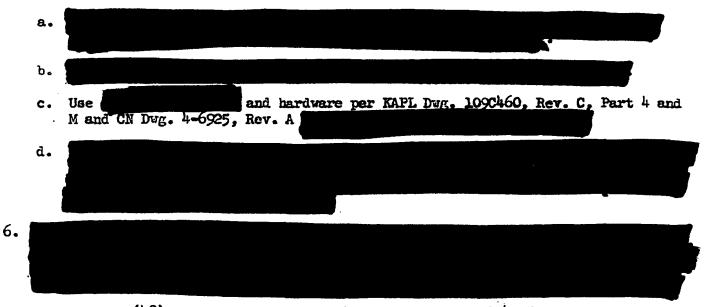
- 1. Fabricate two (2) "Top Insert" devices per essentials shown on page 3 of KAPL Trip Report, HL Runion/RA Siergiej to M and CN dated 11/12/64.
- 2. Fabricate one (1) second evice per essentials shown on page 4 of KAPL Trip Report, HL Runion/RA Siergiej to M and CN dated 11/12/64.







, 5. Fabricate one (1) nuclear fuel element per process to be used for fabrication of Item 2 (NFD Contract 6517-T) elements except:



7. Forty eight (48) hours prior to beginning work on items 3,4, 5 _____ above vendor shall supply schedule giving starting and completion dates

N. I. Kumion

H.L. Runion Core Fuel and Poison Development NUCLEAR CORE OPERATION

/c

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Note: Government furnished material required for this work is as follows:

2,000 grams total U weight.
 4,080 grams Zircaloy a. 3 pc's
 b. 3 pc's

(AP 464 - 8 (10 - 63)	RE∨.		_	PURCHAS	E ORDER				
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REQUESTED ON SITE	1	nstruction	3	ORDERED FOR H. Ruzzion	201	100. E-1	Kei		mes/cb
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						7	. W. KI	ISSINGE	:

KAP 464 - 8 (10-63) RtV.

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PURCHASE ORDER

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								Amendment No. 6
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		ieces zi				- 10 B (2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2		
							4	

Add Instruction 7 entitled "Shop Order Numbers (for KAPL internal use)" as follows:

"7. Shop Order Numbers (for KAPL internal use)

	Purchase Order Items		Shop Order Number
,	1 through 8, 10, 12, 14	c	7910 R 223
	9, 11, and 13	-	7217 ¥ 003

All other terms and conditions of the original order as amended to date are to remain in force and effect except as specifically amended herein.

Purchase Order Price Summary

Original Amount of Order			\$11,258.00
Increase by Previous Amendments			7,351.00
Increase by this Amendment No. 6			3,418.00
Revised Amount of Purchase Order	•	¢	\$22,027.00



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1464 - B (10-63) 1 114 - 521 DE 518			PURCHAS	E ORDER	• •	`.	7 .++*	
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		OPERATED BY TH	E GENERAL ELECTRIC COMPANY UNI		ACT W-31-109-ENG	52		
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		purpose of mod 2 and 3 and pr furnished mate for Items 1, 2 retain title t for a decrease difying techni crease in price increase of \$5 deration there Delste "Total	ifying technical: oviding for a char rial for Item 2 for , and 3 of \$373.00 o tooling included in price for Ites cal requirements a e of \$200.00, then \$6.00 in the total	requirements age in Govern or an increas 0, allowing S d in Items 12 a 12 of \$25.0 for Item 6 fo reby resultin 1 order price , 2, and 3 .	for Items ment- e in price eller to and 14 0, and mo- r an in- g in an in consi-	0 0 0	• • • • •	\$11,738.0
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GENERAL 🛞 ELECTRIC

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MAR 2.6 1965

T. W. KISSINGER

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						WAREHOUSE BLDG.			
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ORDER SUBJECT	TO GENERAL TERMS AND	CONDITIONS OF ATTACHED	PURCHASE SUPPLEMENT N	0 F	UNDING:	
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KNOLLS ATOMIC POWER LABORATC...Y P. O. EOX 1072 SCHENECTADY, NEW YORK 12331 AREA. CODE 518 TELEPHONE 373-6611 TWX. 518-555-2393 TELEX. 014 521

PAGE_ 1 OF.

Daie: April 15, 1955

To: Metals & Controls, Inc. Perry Avemie Extension. Attleboro, Massachusetts

1

Mr. J. White

Attention:

Subject: Order No. NPD 6517 Information to Vendor No. 32

Reference: Utilization Schedule dated 4/12/65

You are requested to ship to KAPL the following items listed as "inventory" in the referenced utilization schedule:

Depleted /0.	contro
3 Items - 1,008 gms SS weight \times	Sis in lossos
Enriched	8 10 1

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3 Items - 478 gms U-235 weight \times

No shipment shall be made except by proper authorization and release by AEC/SNR.

RC Bisbee (5) RL Runion DW Short

Cognizant Requester: Thurssing

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34 ) Att: ATT	Forest Leboro 8: Mr	Controls, In Street , Massachuse . J. White	etts	1	WAREHC SCHENEI LLING INSTRUCTIONS (USE LETTI FINANC	DUSE BLDG. A CTADY, NEW ERHEAD ADDRESS:) E - ACCOUNT	A - 2 YORK RENDER INVOICES I S PAYABLE	N DUPLICATE TO	
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(42 pcs)

( 27 рсв)

( 30 pcs)

PURCHASE ORDERI.DKNOLLS ATOMIC POWER LABORATORY

2	2C	DF 3 PAGES. VENDOR Metals & Controls, Inc. PURCHASE ORDER NO. 7371-Y
THE	FOLLO	WING INSTRUCTIONS SHALL APPLY:
1.	Techn	ical Requirements
	1.1.	Attachment #1 "Technical Requirements for the Uranium and the dated March 17, 1965.
	1.2.	Technical Supplement, dated June 1, 1965.
2.	Admin	istrative Requirements
	2.1.	Seller shall submit with his proposal covering any changes to the order, in- cluding Change Orders issued by KAPL, a detailed cost breakdown, using Form KAP 1645A (10-64) Rev.
3.	Deliv	ery Requirements
	KAPL :	requires and it is essential that delivery be made as follows:
	3.1.	Item 2 on or before one (1) week after receipt of order.
	3.2.	Items 1 and 3 on or before three (3) weeks after receipt of order, material, and license.
4.	Terms	and Conditions of Purchase
		ase Order Supplement, General Terms and Conditions of Purchase AEC 365 is y modified as follows:
	4.1.	Modification to AEC 365 dated May 3, 1965.
	4.2.	Article 53 entitled "Modification to Terms and Conditions of Purchase For Government-Furnished Special Muclear Materials Only," dated October 6, 1964.
	-	Under the provisions of Article 9 entitled "Government Property" and Article 53 entitled "Modification to Terms and Conditions of Purchase For Government-Furnished Special Nuclear Materials Only," General Electric will furnish to Seller the following items of Government Property for use in com- nection with and under the terms of the resultant order.
	(	UZr alloy consisting of the following:
		(550 pcs)

GENERAL CO ELECTRIC

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454 - C (10/63) REV.

PURCHASE ORDER

KNULLS ATOMIC POWER LABORATORY

KNOLLS ATOMIC POWER		
, 3 OF 3 PAGES. VENDOR Metals & Courts	rols, Inc. PURCHASE ORDER NO. 7371-9	

#### Terms and Conditions of Purchase (continued) 4.

KAPL estimates that the above listed items will be shipped to Seller on or before 6/11/65; however, KAPL does not guarantee the accuracy of this estimate.

#### 5. Quality Control Requirements

The following requirements of Quality Control Supplement, S-3, Rev. 5 issued 10/15/64, are hereby made a part of this order;

REPRODUCED AT (

1.0, 3.4, 5.1, 6.1, 6.3, 8.4, 9.3

#### Shipping Requirements 6.

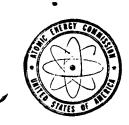
- 6.1. Shipment shall be made f.o.b. destination. Risk of loss shall remain in Seller until arrival at destination. KAPL will reimburse Seller for shipping charges for all shipments of nuclear fuel material. All shipments shall be prepaid with shipping charges billed separately when invoicing the specific item. The invoice shall be accompanied by the original freight bill or a copy certified by the carrier.
- 6.2. KAPL will provide details of shipping instructions prior to each shipment.
  - 6.3. One (1) copy of all shipping documents (including a courtesy copy of the completed nuclear materials transfer form (Form 101) if Station KZA is not on the distribution) shall be mailed at the time of shipment of any special nuclear material use der this order to:

Knolls Atomic Pover Laboratory P. O. Box 1072 Schenectady, Nev York 12301

ATTN: Mr. J. J. Coomes, Manager NCO/NCMC

Certified for national defense use under DMS Regulation No. 1. Seller is required to follow the provisions of DMS Regulation No. 1 and of all other applicable regulations and orders of BDSA in obtaining controlled materials and other products and materials needed to rill this order.





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ADDRESS REPLY TO THE MANAGER U.S. ATOMIC ENERGY COMMISSION P.O. BOX 1009 SCHENECTADY, NEW YORK 12201 AND REFER TO:

MAT:GIM

UNITED STATES ATOMIC ENERGY COMMISSION SCHENECTADY, NEW YORK 12301

REPRODUCED AT GOVT EXPENSE # 18

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<u>.</u>

June 21, 1965

The General Manager Knolls Atomic Power Leboratory General Electric Company Schemectady, New York

Dear Sir:

Enclosed herewith is a contrast review sheet, as listed below, prepared by an SS Facility holding a purchase order issued by you.

Please review the enclosed sheet and advise this affice if there are any items which you consider to have been misinterpreted.

Very truly yours,

D. W. Short, Director Materials Division

Enclosure: As noted

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ce: J. J. Coomes

RECEIVED

JUN 22 1965

J. J. COOMES

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EXTRACT OF CONT	RACT/PURCHASE ORDER DATA							THE REPRODUCED AT COVT EXPENSE # 18
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1. Customer - KAPL	and the second		ļ	1		F	12	<b>N</b> og
2. Contract or Purchase Order No NPD-7	371-ү							CEDA
3. Company Job No KAPL-326 (N-00428)	7. Percent U-235 - 93 +%							RODUG
4. Project No SNR-40702-01-21	8. Effective Contract Date	- 6/4/65						þ
	9. End Delivery Date -	7/5/65	I	7	'∦	Ţ	Ţ	Ŧ
5. Project Title -	10. Nuclear Material Draft N	io	,	ī	•		•	·
6. Form of Material -								
11. Authorized Input: Virgin Recycle	<u>U</u> 3,579 Gr. 3							
			F	Ţ	•	. <b>*</b>	-	₹.
12. Who provides starting material? - KAP	L							
13. Utilization schedule required? (If "Yes	<b>", send a copy to SNR Materials</b> D	ivision) - Yes						
14. Description of Work - (For Cores - incl	ude each Core No.) -							
			-	म इ.	<b></b>		-	-
15 Responsibility for Shipper-Receiver Dif	ferences - N/A					·		-
	N/A							
16 .nancial Responsibility for SS Materia	1- м&с							
17. Responsibility for SS Scrap Recovery -	N/A		i i	and the second s	17 T.	97 89	i.	
18. Special terms and conditions re: SS Mar	terials -							
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19. Miscellaneous -								
Prepared By: Wallace S. Holburn/ Arthan ;	r Hillm		-	- #	• ·			
			Ĺ	<u>#</u>	17 1	٠	۰.	1
June 15, 1965								
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KNOLLS ATOMIC POWER LABORATORY P. O. BOX 1072 SCHENECTADY, NEW YORK 12301 AREA CODE 518 TELEPHONE 293-6611 TWX 518-555-2393 TELEX 014-521

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PAGE____OF____

Date: June 22, 1965

To: Metals and Controls, Inc. P.O. Box 898 Attleboro, Mass.

Attention: Mr. J. White Subject: Order Not NPD 7371-Y Vendor No. 2 Instruction Reference:

ke RC SM WH 1. The following changes shall be made to the subject order:

Contract Item	Old Quantity	New Quantity
l	649	<b>5</b> 85
M&C shall ship a quantity below:		of the sizes and quantities
Quantity	Siz	e
37		
15		
3		
9		
The shall	be shipped to:	
	Knolls Atomi Building M-2 Schenectady,	
	Attention: 1	Mr. JJ Coomes and DE Gibb
	Marked for N	PD 7371-Y
Carpenter G-1, 277 DM Lewis G-2 Bisbee (;) A-4 W Margulis D Bishop E-1, 201 EB Powell G-	-4, 162 2,154 Cog	gnizant Roquester:
Shannon C., 126' HE Winkler G-	2,309	

KNOLLS ATOMIC POWER LABORATORY F. O. BOX 1072 SCHENECTADY, NEW YORK 12301 AREA CODE 518 TELEPHONE 393-6611 TWX 518-556-2393 TELEX 014-521

PAGE____OF____

Date: July 1, 1965

Metals and Controls, Inc.
 P. O. Box 898
 Attleboro, Massachusetts

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Allantion: Mr. J. White NPD 7371-Y Subject: Order No. Information to Vendor No. 2 Reference:

M&C is hereby notified of the shipping destination for the 585

shims.

Phillips Petroleum Co. MTR-ETR Facility National Reactor Testing Site Scoville, Idaho

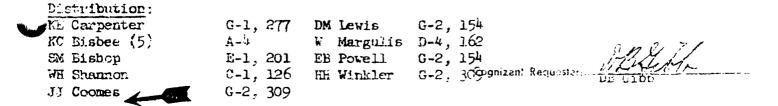
Attention: LP Smith/E Kuchenbecker

Mark:"for KAFL 71-100 ETR"

### RECEIVED

JUL 2 1965

J. W. KISSINGER



KAP 328A (1:63) REV. (I. V. PART 1)



NR 21

_ : 2 JUL 196**5** 

WM. J. GALLAGHER

FM W J GALLAGHER KNOLLS ATOMIC POWER LABORATORY SCHENECTADY NY 65 JUL 12/2033Z

TO METALS AND CONTROLS INC NUCLEAR PRODUCTS GROUP ATTLEBORG MASS ATTN W S HOLBURN

REGARDING YOUR TWX OF 7-12-65 TO D W SHORT CLN AUTHORIZATION IS GRANTED TO SHIP THE MATERIAL FROM NPD 7371Y. CHANGE DESTINATION OF PROPOSED SHIPMENT OF 585 TO KAPL, SCHENECTADY. IT IS OUR UNDERSTANDING THIS MATERIAL WILL BE PACHAGED WITHIN 3 M&C SHIPPING CONTAINERS, BE PERMIT 1839 AND SHIPPED VIA COMMERCIAL CARRIER ON A NON-CO-MINGLING CERTIFICATION. PRIOR TO SHIPMENT PLS SEND ME CONSTRUCTION DETAILS OF THE BE 1839 CONTAINER AND INFORM ME OF THE TYPE OF COMMON CARRIER WHICH WILL BE UTILIZED. AEC/SNR WILL SEND YOU A SEPARATE ACCOUNTABILITY RELEASE FOR THIS SHIPMENT.

12/2042Z

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M&C NUC ATTL

Old Colony Trucking Cor.

REPRODUCED AT GOV'T EXPENSE

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1 8 JUL 1965

WM. J. GALLAGHER

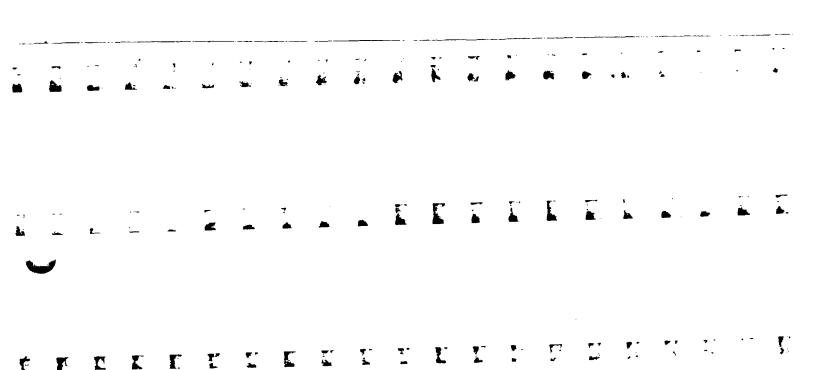
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LSC NUC AITL NF 20

FN D W SHORT USAEC SCHENECTADY 1Y (5 JUL 12/0030Z TO V S HOLBUER METALS AND CONTICLE INC ATTLEBORD MASS

REUFTI OF 7/19/65 REQUESTING APPROVAL TO SHIF 585 INFICHED UPANIUL TO PHILLIPS FETEDLEUR COMPANY UNDER NPD-7371Y, USING BE-1839 CONTAINERS AS APPROVED BY DIVISION OF MATERIALS LICENSING, NO. PURSUANT TO INSTRUCTIONS RECEIVED FROM NAPL THIS DATE, SHIPMENT SHOULD BE MADE TO KAPL, ATTENTION J J COOMES/D SIBBS PATHEF THAN PHILLIPS. AUTHOR-IZATION NFREBY GRAVIED TO MAKE SHIPMENT UNDER YOUS LICENSE AND IF ACCORDANCE WITH SEPARATE TWX SHIPPING INSTRUCTIONS SENT YOU THIS DATE BY V L GALLAGHER, MAPL. EEF MAT-DWS

12/



3 Forest Street       WAREHOUSE BLDG. M-2         Attleboro, Massachusetts       SCHENECTADY, NEW YORK         ALTINS Mr. J. White       BILLING INSTRUCTIONS RISE LETTERHEAD ADDRESS.) RENDER INVOICES IN DUPLICATE TO:         FINANCE - ACCOUNTS PAYABLE       FINANCE - ACCOUNTS PAYABLE         ON PERAID SHIPMENTS F.O.B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL       FORE         A       FORE SCIENCE FOR       DO-E2 Certified under OMS Reg. 1         DON SUTE       DELIVERY DATE       ORDERED FOR         DORDER SUBJECT TO GENERAL TERMS AND CONDITIONS OF ATTACHED PURCHASE SUPPLEMENT NO.       FUNDING:	I-B ( 10-63) R	EV.			PURCHASE	ORDER	1. <b>b</b>	<b>.</b> .	t une com	· · · ·		
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Amendacent No. 1 Amendacent No. 1 Amendacent No. 1 SHIP TO: KNOLLS ATOMIC POWER LABORATOR WAREHOUSE BLDG. M-2 SCHENCTAPY, NEW YORK ATTR: Mr. J. White Projuncture reformed to as Seller) To a finance of the subject to as Seller To a finance of the subject to generating of the subject and	SHOP OF	NDE NO.						KAGES	NPD -	1371-Y		
Product	5 3 4 1	Fores tlebos	st Street 70, Massachuse 27. J. White	rtts	1	WARE SCHE ILLING INSTRUCTIONS (USE FINA	HOUSE BLDG. I NECTADY, NEV LETTERHEAD ADDRESS:) NCE - ACCOUN	MIC POV M - 2 W YORK RENDER INVOICES TS PAYABLE	VER LAB	ORATOR		
D. Gibb     287     G-1     Function       DRDER SUBJECT TO GENERAL TERMS AND CONDITIONS OF ATTACHED PURCHASE SUPPLEMENT NO.     FUNDING:     FUNDING:       GRANTITY     UNIT     DELIVER TO:     (MULDING)     (MULDING)     (MULDING)       GRANTITY     UNIT     DELIVER TO:     (MULDING)     (MULDING)     (MULDING)     (MULDING)       GRANTITY     OF     If them I with a resultant decrease in purchase     If them I with a resultant decrease in purchase     (MULDING)     (MULDING)       FUNDING:     Add Instruction 6.4. as follows:     6.4.     Seller shall ship balance of sixty-four (64)     (GA)       FUNDING MULDING:     MU	*	<u></u>					······································	E2 Certified	under			
QUANTITY       UNIT       DELIVER TO:       (MULDING)       (NOM)       UNIT       DISCOUNT       NTI.         935       Purchase Order HPD 7371-Y issued under date of 6/4/65 is hereby amended for the purpose of reducing quantity of Item 1 with a resultant decrease in purchase order price of \$112.00.       Delete Item 1 in its entirety and substitute in lieu thereof the following:       Image: Comparison of the following:       Image: Comparison of the following:         935       pcs       Image: Comparison of the following:         935       pcs       Image: Comparison of the following:         935       pcs       Image: Comparison of the following:         935       pcs       Image: Comparison of the following:         935       pcs       Image: Comparison of the following:         936       pcs       Image: Comparison of the following:	STED ON SITE	DELIVERY	DATE			287	ырс. <b>G-1</b>	1	R. G. H	basto		
GUNNIT       UNIT	ORDER SUB	JECT TO	GENERAL TERMS AND	CONDITIONS	OF ATTACHED PUI	CHASE SUPPLEMEN	IT NO	FUN		· · ·		
<ul> <li>is hereby amended for the purpose of reducing quantity of Item 1 with a resultant decrease in purchase order price of \$112.00.</li> <li>Delete Item 1 in its entirety and substitute in lieu thereof the following:</li> <li>Add Instruction 6.4. as follows:</li> <li>6.4. Seller shall ship balance of sixty-four (64) to:</li> <li>Knolls Atomic Power Laboratory P. 0. Box 1072 Building M-2 Warehouse</li> <li>ATTN: Mr. J. J. Cooxes and D. B. Gibb</li> </ul>	QUANTITY	UNIT	DELIVER TO:			NG) (1	ROOM)		DISCOUNT	NET TOTAL		
	<b>5</b> 35	рсь	tity of Ite order price Delete Item thereof the Add Instruct 6.4. Seller Knolls P. 0. Builds	m 1 with a of \$112.00 1 in its of following: tion 6.4. a r shall shi t S Atomic Po Box 1072 ing M-2 War	resultant c. entirety and as follows: lp balance co: wer Laborat rehouse	decrease in ad substitute of sixty-for tory	purchase e in lieu m (64)			\$2, ⁰ 69"		

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#### 464 - C (10/63) REV.

### PURCHASE ORDER

### KNOLLS ATOMIC POWER LABORATORY

		Amendment No. 1
AGE OF 2 PAGES.	VENDOR Metals & Controls, Inc	PURCHASE ORDER NO. 7371-Y

All other terms and conditions of the original order are to remain in force and effect except as specifically amended herein.

#### Purchase Order Price Summary:

Original Amount of Order			\$2,981
Decrease by this Amendment No. 1			112
Revised Amount of Purchase Order .	•	•	\$2,869







METALS & CONTROLS INC. A CORPORATE DIVISION OF

**TEXAS INSTRUMENTS** INCORPORATED

File: KAPL-326 August 5, 1965

Knolls Atomic Power Laboratory F. G. Box 1072 Schenectady, New York 12301

Attention: Mr. J. J. Coomes, Manager Nuclear Core Materials Control

Subject: Utilization Schedule

Gentlemen:

In accordance with order requirements, enclosed are three copies of our Material Utilization Schedule pertaining to the fuel material received for use on Purchase Order NPD 7371-Y.

Very truly yours,

J. WHITE Contract Administrator Navy Nuclear Products

JW/bs Enclosures (3)

cc: Mr. D. Short, SNRO (1)



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AUG 9 1965

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### KAPL-326

<u>N-00428</u>	8	
PROJECT: SNR-40702-01-21 CONTRACT: NPD-7371Y	August	2, 1965
	SS GRAMS	U-235 GRAMS
<u>RECEIPTS</u> : KAC-KAB-4	3,579	3,335
<u>REMOVALS</u> : KAB-KZA-64	3,579	3,335
BALANCE:	0	0

Wallace & Hilcom

Wallace S. Holburn SS Materials Representative

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J. J. COOMES

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KAP 46	- 4-A ( 10-43) RE	• · ·			PURC	HASEOR	DER	- 1.1		•		
	× 014 - 521		518 - 556 - 2393	KNC	DLLS ATOM	IC POW	/ER LA	BORAT	ORY	₽U	RCHASIN	₩ 1G #
AREA	CODE 518	TELEF	PHONE 393-6611		P.O	. BOX 10	72			SCHENECTAD	Y, NEW Y	ORK 12301
	-		OPERA	TED BY THE GEN	ERAL ELECTRIC COMPA	NY UNDER GO	VERNMENT	CONTRACT W-	31 - 109-ENC	ə52		<u>ā</u>
			M.R. NO. 1	DATE ORDER								DRDER NO. 2
	717386		19710	10/6/6				PD NO. ON			NPD 68	318 -¥¥
	TO		nd Controls,			•	AI	ND CORRESP	ONDENC	.t • [		
Ĭ	M 8 P.	C Ru O. Bo	clear Produc	cts	703	S		KNOLLS WAREHOUSI SCHENECTA	E BLDG.	M-2	ER LA	BORATO
	(Here		r. J. White er referred	to ec S	aller)		AID SHIPMENT	FINANCE - /	ACCOUN	ACH ORIGINAL TRAN		
SHIP V		Tue	unded and the		N&C 1		TERMS	30 days		2 Certified DMS Reg.	under	N-EEP-X
REQUE	STED ON SITE	DELIVERY	ATE		ORDERED FOR		1.48316		BLDG.		INCERT	Hand
		See	Instruction	- 3	R. L. FC	<u>1</u>	126		C-1		_K./	Jones/c
THIS (	ORDER SUB	JECT TO	GENERAL TERMS A	ND CONDIT	IONS OF ATTACH	ED PURCHA	SE SUPPLI	MENT NO.		FUN		Al-31
ITEM	QUANTITY	UNIT	DELIVER TO:			( WILDING)				UNIT PRICE	DISCOUNT	NET TOTAL
			Provide the structions and docuper reted by re	listed : ats list	herein. Thed in said	e speci instruc	ficati	ions, dr ore inc	eving	9,		
1	1,000	<b>e</b> 8	Enriched u	renius z	irconium fl	ux vire	88966	bly.		\$24.905		\$24,905.0
~	4	<b>ccs</b>	Certificati quality cor					rescribe	d by	(Include Item 1)	đ in ti	e price o
3	3	CC8	Process outline, quality control plans, etc. as re- quired by Attachment #1.						(Include Item 1)	d in tì	e price o	
4	3	ccs	Detailed pr	roductio	n schedule.					(Include Item 1)	a in th	e price o
			Total Agour	Acount of Purchase Order								\$24,905.0
			THE FOLLOW	Ing Inst	RUCTIONS SE	ALL APP	IX:					
					TL			OF		PAGES.	<u></u>	

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T. W. KISSINGER

### KNOLLS ATOMIC POWER LABORATORY

GE 2 OF 4 PAGES. VENDOR Metals and Controls, Inc. PURCHASE ORDER NO. 6818-Y

#### 1. Technical Requirements

- A. Attachment #1, Rev. 1, entitled "Ordering Data for Flux Wire Assemblies" dated Sept. 29, 1964.
- B. KAPL Drawing 102B4793, Rev. E, entitled "Flux Wire Assembly"
- 2. Administrative Requirements
  - A. A weekly status report is required starting one week after order placement and continuing until completion of the work.
  - B. Seller shall be fully responsible, at his own expense, for obtaining and maintaining in effect all necessary licenses and approvals from the Commission and all other necessary approvals from Federal, State, and local regulatory authorities as are required to enable Seller to perform his undertaking under this order (see paragraph B of Article 47 in particular). The fact that the order will be under an AEC prime contract will not cause Seller to be exempt from AEC licensing requirements.
- 3. Delivery Requirements

KAPL requires and it is essential that delivery be made as follows:

- A. Item 3 on or before two (2) weeks after receipt of order.
- B. Item 4 on or before two (2) weeks after receipt of order.
- C. Item 1 and 2 on or before twenty-three (23) weeks after receipt of order and material.
- 4. Terms and Conditions of Purchase

Purchase Order Supplement General Terms and Conditions of Purchase AEC-164 is hereby modified as follows:

- A. Modification to AEC-164 dated 4/1/64.
- B. Article 47 entitled "Modification to Terms and Conditions of Purchase For Government Furnished Special Nuclear Materials Only" dated Nay 27, 1964, and Appendices A and E thereto (dated October 1, 1963) except that all unused fuel material, including scre shall be returned with applicable certification and identification.
- C. Add Article 48 entitled "Government-Furnished Zircaloy Material."
- D. Under the provisions of Article 9 entitled "Government Property" and Article 47 entitled "Nodification to Terms and Conditions of Purchase For Government-Furnished Special Nuclear Materials Only," General Electric will furnish to Seller the following Government Property for use in connection with and under the terms of this order



PURCHASE ORDER KAP 444-C (11-41)REV. 1. 🖸 KNOLLS ATOMIC POWER LABORATORY ₽ * PRODUCED AT \$ dVT EXPENSE 3 Metals & Controls, Inc. 4 6818-Y GE PAGES. PURCHASE ORDER NO. OF VENDOR 4. Terms and Conditions of Purchase D. (continued)

grinding and vacuum annealing to be performed by Seller.

If additional uranium zirconium alloy rod is required by Seller to complete the work, and it is determined by KAPL to be in KAPL's and the Government's best interests to do so, then additional uranium zirconium alloy rod can be obtained from KAPL at Seller's expense. Such additional material shall be provided by General Electric under the provisions of the Government Property Article, and the purchase order price will be reduced at a price of \$14.59/1b for amount requested. In the event it is determined by KAPL to not be in its and the Government's best interests to supply such additional property when required by Seller, Seller shall be obligated to obtain any additional property at his expense and further to certify that Seller acquired property meets all requirements of this order, or if no requirements are so stated in this order, then Seller shall certify that Seller acquired property is identical in all respects to the first supplied KAPL property.

- E. Article 9 entitled "Government Property" is hereby modified as follows:
  - (1) The following instructions shall apply to the recertification of material returned to KAPL and the controls shall cover, but not be limited to, identification, method of identification, quantity and degree of processing performed if any.
    - (a) Certify that the material is the same quality as supplied and that the original certification is still applicable.
    - (b) If the material was processed to KAPL approved procedures, Seller shall supply all processing records, test data, if any, a description of the work performed, and certify the quality level of the returned material.
    - (c) All accompanying paperwork shall be in accordance with Quality Control Specification S-3, Rev. 4.
  - (2) Add paragraphs H and I as follows:

GENERAL

"H. The delivery or performance dates for the supplies or services to be furnished by Seller under this order are based upon the expectation that Government-Furnished Property suitable for use will be delivered to Seller at the times stated in this order, or, if not so stated, in sufficient time to enable Seller to meet such delivery or performance dates. In the event that Government-Furnished Property is not delivered to Seller by such time or times, General Electric shall, upon timely written request made by Seller, make a determination of the delay occasioned Seller thereby, and shall equitably adjust the delivery or performance dates or order price or both, and any other contractual provision affected by such delay,

**ELECTRIC** 

PURCHASE ORDER

KNOLLS ATOMIC POWER LABORA (ORY

AGE	4	_OF	4	_ PAGES.		Metals	and	Controls,	Inc.	PURCHASE ORDER NO.	<u>6813-y</u>	5
4.	Terms	and (	Condit	ions of	Purchase							CED AT
	Е.	2)										EPRODUC

E. (2)

KAP 444-C (11-41)REV.

"Η. (continued)

> in accordance with the procedures provided for in the Article of these terms and conditions entitled CHANGES.

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EXPENSE

- I. In the event the Government-Furnished Property is received by Seller in a condition not suitable for the intended use, Seller shall, upon receipt thereof, notify General Electric of such fact and, as directed by General Electric either (1) return such property at General Electric's expense or otherwise dispose of the property, or (2) effect repairs or modifications. Upon the completion of (1) or (2) above, General Electric upon written request of Seller shall equitably adjust the delivery or performance dates or order prices, or both, and any other contractual provision affected by the rejection or disposition, or the repair or modification, in accordance with the procedures provided for in the Article of these terms and conditions entitled CHANGES.
- 5. Quality Control Requirements

Quality Control Specifications S-3, Rev. 4, paragraphs 3.1, 3.2, 3.3, 4.1, 5.1, 6.0, 6.1, 6.2, 7.1, 8.1, 8.2, and 8.3 shall apply.

6. Shipping Instructions

Detailed shipping instructions will be provided by an information to vendor (IV) prior to the time of shipment. Seller shall notify KAPL of estimated shipping date at least one (1) week prior to shipment.

7. Security Requirements

Your attention is directed to the fact that this order covers work classified as Confidential - Restricted Data. Security requirements that apply to this order are contained in Article 17 of AEC-164. The information contained in the document attached entitled "Supplementary Security Provisions" identified as Attachment No. 2 is provided to assist you in meeting the aforesaid security requirements.

Certified for national defense use under DMS Regulation No. 1. Seller is required to follow the provisions of DMS Regulation No. 1 and of all other applicable regulations and orders of EDSA in obtaining controlled materials and other products and materials needed to fill this order.



# SHIPPING REPORT

P.O. BOX 1072

SCHENECTADY, N.T.

'ERATED BY THE GENERAL ELECTRIC COMPANY UNDER GOVERNMENT CONTRACT W-31-109-ENG-5名 200 REA-1-97-96-40 02 717 3R304 REPRODUCED AT C 23559 KNOLLS ATOMIC POWER LABORATORY Shipper's FROM CONSIGNED TO . 10/15/64 Metals & Controls Inc. DATE . Nuclear Products Group NPD NO · 6818-Y **DESTINATION** • Bldg. N Perry Ave. Ext CUSTOMER'S NO . Attleboro, Mass. ROUTE . J. White/WS Holburn Att: **DELIVERY CARRIER** . CAR NO. . CAR INITIALS . Subject to Section 7 of Conditions o applicable bill of lading, if this ship meat is to be delivered to the consignor, without recourse on the consignor, th consignor shall sign the following state CHECK KIND OF PACKAGES, DESCRIPTION OF ARTICLES, SPECIAL MARKS, AND EXCEPTIONS + WEIGHT CLASS or NO. PACKAGES (Subject to Correction) RATE l Br EDC DI 19# Radioactive Material The carrier shall not make deliver of this shipment without payment o freight and all other lawful charges. Protective Signature Service (Signature of consignor.) If charges are to be prepaid, write or stamp here, "To be Prepaid." Exempt from Regulations PREPAID Arcat or Cashiet. Per (The signature here acknowledges only the amount prepaid.) Charges advanced: per UNIT OTY. DESCRIPTION OF ITEM OTY. UNIT DESCRIPTION OF ITEM (1455 U-Cr Alloy Rode 2 21 Enr. Ôm. Shipped per request of RL Fox/An Bedford REASON FOR SHIPMENT EPTANCE BY RECIPIENT OF MATERIAL (NAME, TITLE, DIVISION) APPROVAL BY AUTHORIZED WAREHOUSE REPRESENTATIVE FOREMAN-WAREHOUSING CLAIM NO. NOTE: ALL DIFFERENCES IN QUANTITY, DESCRIPTION, OR CONCEALED DAMAGE NOT SHOWN ON THIS FORM SHOULD BE REPORTED IMMEDIATELY

WAREHOUSING

	<b>\</b> /		SHIPM	FICATION		(?) -		E.C. 101 FORM	741 No.		
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RI. FOX				C1	42		SIGNATURE OF T	HS Dorr	DATE		
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		GRAMS		}	<u> </u>		of (	16	113/64		
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MREM/HR PENETRATING		3	1455.0			p.56		2.34	SNR40702-01-		
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MREM/HR PENETRATING											
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VEYOR'S SIGNATURE DATE									ATERIAL CONTROL		
IOLOGICAL SERV. SIGN. DATE	4 9 9 9				JJ	Coones	1And	m	10/13/64		
					MANA	SER-MATERIA	LCONTROL				
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QUANTITY THIS SHIPME			+54-2				F				
COALLER HIS SHITTER											

FUSASSU BULV

TEXINSMC ABOR

10-19-64 5050 KEITH JONES R FOX

REF PO 6813-Y TO INFORM YOU THAT SPECIAL NUCLEAR MATERIAL LICENSE NO SNM-23 AS AMENDED HAS BEEN FURTHER AMENDED TO INCLUDE THE FABRICATION OF FLUX WIRES IN ACCORDANCE WITH PO REQUIREMENTS. AUTHORIZATION LETTER 10-12-64 DA NUSSBAUMER D&L TO NEWEISS M&C

J WHITE CONT ADMIN METALS & CONTROLS

NPD 6818

TEXINSMC ABOR

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001 20 1964

T. W. KISSINGER

#### KNOLLS ATOMIC POWER LABORATORY SCHENECTADY, NEW YORK 12301

Page . of

November 17, 1964 Date:

To: Metals a	nd Cg	trels, Inc.	
P.O. Box	-898,	Attleboro, Mass 6818-Y	achusetts
Subject: Order No.	/ NPD	6818-Y	
Information	(	To Vendor No.	IV #3
			•

Action Required by C & P **Type Contract** Source of Funds Shop Order No. Dollars, This Change (Est.) Dollars, Accumulative (Est.) **Dollars**, Presently Committed

Programming **Cost and Budget Control** Approved: 7th Level Manager 6th Level Manager. **5th Level Manager** 4th Level Manager General Manager

auBedford

(SIGNATURES REQUIRED)

### **DISTRIBUTION:**

- AW Bedford
- K Jones (5)
- Chiancone A
- S Kitchen
- KE watkins
- P Johannesson
- DW Short

JJ Coomes/TW Kissinger _ 309 B- 2

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NOV 1 8 1964 T. W. KISSINGER

Cognizant Requester: au Calorde

Page 1 of 1

Area Code 518 Telephone: 393-6611 TWX 518-556-2393 TELEX 014-521

P. O. Box 1072

Schenectady, New York 12301

Date: November 17, 1964

To: Metals and Controls, Inc. P.O. Box 898 Attleboro, Massachusetts

Attention: Mr. J. White

Subject: Order No. NPD 6818-Y Information to Vendor No. IV No. 3

Reference:

- 1. Process Outline for Enriched Uranium/Zircaloy II Alloy Flux Wire Assemblies for KAPL-309 is conditionally approved, subject to the following comments:
  - a. Step 165, page 3 add: "Alpha count dies before drawing wire". The acceptable limit shall be the count rate equivalent to 10 ppm of natural uranium in zircaloy.
  - b. Step 165, page 3 add: to remove surface contamination" or equal.
  - c. It is KAPL's understanding that if a new petroleum based lubricant now under study by M & C is used, it will be cleaned off the wire at final gage. The process outline should reference this operation if it is done.
  - d. Add a step after step 165, page 3, requiring cutting of samples for submittal to KAPL before the pickling of Item b above. A 1" long sample cut from each end of each continuous length of wire is desired.
- 2. It is requested that the first completed flux wire assembly, after all work is finished and after it is determined that the ends will pass through the top no-go gage, be inserted into a sample of Eanco cable which will be supplied to you by KAPL for this purpose. The results of this trial should be reported to KAPL for information.
- 3. Following completion of Item 2 above, it is requested that the completed flux wire assembly be sent to KAPL for additional tests.

Cognizant Requester: AuBeafordin

KAP 328A (11-63) REV. (I.V. PART 1)

₽ REPRODUCED AT GOVT EXPENSE

pickle

-	<b>A</b> .	<u></u>		
$\smile$		ACT/FURCHAGE ORDER DATA ON K44.		
1, Custozer - KAPL				
Contract or Purchase	e Order Nc. NPD-	0515-1		
3. Company Job No KA		7. Percent U-235 - 93+2		
Project No SNR-		6. Effective Contract Date	_ 10/6/64	
· ·			Weeks after receipt material.	
5. Froject Title -		ic. Nuclear Material Draft 1		The Market Strates
c. Form of Material -	EU/ZR Allov Rods			
		۲ <b>۱</b> ۲۰	U-235	
li. Authorized Input:	Virgin Recycle		<u></u>	
	Alloy	ز	2	
12. Who provides startin	g material? - KAP	L		
13. Utilization schedule	required? (If "Yes",	, sena a copy to SNR Materials I	<b>Division) -</b> Yes	
l→. Description of Work	- (For Cores - includ	ie each Core Nc.) -		
Fabricate	Flux Wire Assemt	olies		1
-				LAEEE
Responsibility for S	hipper-Receiver Liffe	erences - N/A		Υ.
♥ ♥inancial Responsibil	lity for SS Material	- M & C		
-				
17. Responsibility for SS	S Scrap Recovery -	N/A		
· · · · · · · · · · · · · · · · · · ·				
		ing scrap, shall be returned wit	th	
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9. Macellaneous -		DFCF	IVED	
9. Miscellaneous -		RECE		
9. Miscellaneous -		DEC 2	1964	
Prepared Ey: W. S. Holb	urn/	-	1964	

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E E E E E

EX 014 - 52 A CODE 51				PURCHASE		<b>4.</b> N		· · · · · ·	
A CODE DI		518 - 556 - 2393 HONE 393 - 6611	KNOLL	S ATOMIC PO	OWER LA	BORATONY		URCHASIN	-
		HOINE 373-8871		P.O. BOX	( 1072		SCHENECT	ADY, NEW YO	RK 12301
		OPERATE	D BY THE GENERAL E	LECTRIC COMPANY UND	ER GOVERNMENT	CONTRACT W - 31 - 109-E	NG52		
×	DEDER NO.	M.R. NO. ]	DATE ORDERED	VENDOR CODE				PURCHASE O	RDER NO.
7173 R		IV #6	1/20/65	13611		PD NO. ON ALL P		NPD 681	8- <b>T</b>
10		<u></u>				ND CORRESPONDED		Ananôment	<b>No.</b> 1
		mtrals, Inc mr Products			SHIP TO.	KNOLLS AT			
-	). Box 8					WAREHOUSE BLDG		WER LAD	JRAIOI
		Massachuset	ts 02703			SCHENECTADY, N			
AUUU	l: Mr.	J. White		1		IS IUSE LETTERHEAD ADDRES			
Hereine	fber re	ferred to a	s Seller)		N PREPAID SHIPMENT	S.F.O.B. SHIPPING POINT	ATTACH ORIGINAL T	RANSPORTATION BILL	CODE
	Instruc	tion 6		'N & C, Inc. tleboro, Mag			E2 Certifie DMS Reg	ed under	$\Delta$
UESTED ON SITE				RED FOR			- Come is	ONT (	tono
	800	: Instruction	<b>a 3</b>	R. L. Pax	126	<b>C-1</b>	× ×	ath V. J	
ORDER SU	BJECT TO C	GENERAL TERMS AN		S OF ATTACHED PU	RCHASE SUPPL	MENT NO.	164 FL		-31
QUANTITY	UNIT	DELIVER TO:					UNIT	DISCOUNT	NET TOTAL
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IT. W. KISSINGER

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	2	DF	2	PAGES.	VENDOR	Metals & Controls, Inc.	PURCHASE ORDER NO.	_6818_Y
•	, ,						Anenda	ment No. 1
	;							* * 
	. 7			<u>بالم (</u>	IOLLS /	ATOMIC POWER LABORA	λY	Ē
KAP 464-C (]]-41)	REV.	•				PURCHASE ORDER		

### "5. Quality Control Requirements

Quality Control Requirements Quality Control Specification S=3, Rev. 5, dated 10/15/64, paragraphs 3.1, 3.2(1,2,&3), 3.3, 4.1, 4.2, 5.1, 6.1, 6.2, 6.3, 8.1, 8.2, 8.3, 8.4, 8.6, and 9.1 aball apply."

All other terms and conditions of the original order as amended to date are to remain in force and effect except as specifically smended herein.

Purchase Order Price Summary

Original Amount of Order Change by this Amendment No. 1	\$24,905.00 -0-
Revised Amount of Purchase Order	. \$24,905.00



	ÆV.			PURCHASE O	RDER	<b>(.)</b>			· · ·
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		OPERATI	ED BY THE GENERAL	ELECTRIC COMPANY UNDER C	SOVERNMENT CONTRA	CT W - 31 - 109-ENG.	-52		ŭ
	RDER NO.	M.R. NO	DATE ORDERED	VENDOR CODE			• [	PURCHASE OR	é
7173 R 8		IV #8	2/19/65	13611		), ON ALL PACK RRESPONDENCE		NPD 681	
M & P. Att ATT - (Herein	C Nuc O. Box Leboro ENTION	Controls, In lear Product 898 , Massachuse : Mr. J. Wh referred to	s etts 02703 uite as Seller	Энци ) он Р	SCHEN NG INSTRUCTIONS (USE LE FINAN REPAID SHIPMENTS F.O.B.	IOUSE BLDG. M IECTADY, NEW ITTERHEAD ADDRESS:) RE	IC POV -2 YORK NDER INVOICES PAYABLE	IN DUPLICATE TO,	
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ITEM QUANTITY	UNIT	DELIVER TO:		. (BUILDING	) (#C	юм)	UNIT	DISCOUNT	NET TOTAL
		purpose of quired to tion of Se Modify req "Technical Rev. 2, ex Assemblies stituting Rev. 3, de	revising implement eller's ac puirement A Requirement itled 'O s' dated D "'Ordering ated Feb. : terms and	is hereby furt technical req REC No. MCR:6 ceptance of a A of Instructi ents" by delet rdering Data f ec. 22, 1964" g Data for Flu 10, 1965" in 1 conditions of	all states and a second state of the second state of the second states and the second st	s re- nsidera- ification. ed ment #1, e nd sub- mblies'			

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MAR 3 1965

T. W. KISSINGER



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METALS & CONTROLS INC.

# TEXAS INSTRUMENTS

File: KAPL-309 May 5, 1965

Knolls Atomic Power Laboratory P. O. Box 1072 Schenectady, New York 12301

Attention: Mr. J. J. Coomes, Manager Nuclear Core Materials Control

Subject: Utilization Schedule

Gentlemen:

In accordance with order requirements, enclosed are three copies of our material balance pertaining to the fuel material received for use on Purchase Order NPD 6818-Y.

Very truly yours,

J. WHITE Contract Administrator Navy Nuclear Products

JW/bs Enclosures (3)

cc: Mr. D. Short, SNRO (1)

### RECEIVED

MAY 6 1965

J. J. COOMES

		May 5, 1965	
•	MATERIAL UTILIZATION SCHEDU KAPL-309 N-00376	LE	
<b>PROJECT:</b> SNR-40702-01-7			
CONTRACT: NPD-6818-Y			
		Grams SS	Grams U-235
RECEIPTS:			
KZA-KAB-15		3	2
REMOVALS:			
KAB-KZA-26		х	x
KAB-KZA-35		Х	Х
KAB-KAY-1		Х	Х
KAB-KZA-43		Х	Χ.
KAB-KAY-2		Х	Х
KAB-KAY-3		Х	X
KAB-KAY-4		X	X
KAB-KZA-49		<u> </u>	X
TOTAL REMOVALS		х	х
BALANCE TO ACCOUNT FOR:		3	2

INVENTORY:	Grams Net	Grams SS	Grams U-235
Excess Wire Scrap Wire *Rounding Difference (MUF)	360 <del>}</del> 392 5	2 1	1 1
TOTAL		3	2

*This difference is created by the several "X" shipments. Individual shipments are each less than one gram, but the sum of all shipments equals one gram.

RECEIVED

MAY 6 1965

Wallace S. Holburn SS Materials Representative

6

REPRODUCED AT GOVT EXPENSE # 18

J. J. COOMES

May 20, 1965

...

Metals & Controls, Inc. N & C Nuclear Products Post Office Box 898 Attleboro, Massachusetts 02703

Attention: Mr. J. White

Subject: NPD 6818 - HESIDUE NATERIAL Reference: Utilization Schedule, dated May 5, 1965

Dear Sir:

The material shown as "inventory" on the referenced schedule (Excess Wire - 360 gms. and Scrap Wire - 392 gms.) shall be shipped F.O.B. your plant to -

> Knolls Atomic Power Laboratory Post Office Box 1072 Warehouse Building M-2 Schenectady, New York

Attention: Mr. J. J. Coomes

Shipment will not be made, however, without prior approval of the Director, Materials Division, U. S. Atomic Energy Commission/Schenectady Naval Reactors.

Very truly yours,

T. W. Kissinger Materials Control NUCLEAR CORE OPERATION

TWK/Lap

bcc: R.L. Fox

### 6 RECEIVED

CONTANY 19885 26 MAY 1965 WM. J. GALLAGHER

D. W. SHORT 3:25

MAY 25, 1965

MR. W. S. HOLBURN, METALS AND CONTROLS, INC., ATTLEBORO, MASSACHUSETTE

REDRIT OF 5/25/65 REQUESTING AUTHORIZATION TO SHIP ENRICHED URANIUM/ZR SCRAP WIRE, CONTAINING APPROXIMATELY ONE GRAM U-235, TO KAPL FROM CONTRACT MPD-6818Y. AUTHORIZATION HEREBY GRANTED TO MAKE SHIPMENT VIA PARCEL POST AS REQUESTED.

Le cc: J. J. Coomes, KAPL - Mailed J. H. Barry, SNR P. F. Sohuster, SER Note: Group 3

# RECEIVED

MAY 26 1965

J. J. COOMES

File: 1.1.5 MPD-6818Y

D. W. SHORT, DIRECTOR MATERIALS DIVISION, SHR

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METALS & CONTROLS INC.

### TEXAS INSTRUMENTS

INCORPORATED

CUSTOMER: Knolls-Atomic Power Laboratory DATE: June 3, 1965

P. O. NUMBER: NPD-6818-Y

**A**)

Metals & Controls Inc. certifies that the material described herein is the excess and scrap G.F.M. material furnished for P. O. NPD-6818-Y.

MATERIAL	FORM	QUANTITY	MATERIAL IDENTITY
U-Zr Flux wire	Wire	752 gm	Ingot A-183

V. (Intom

P. W. Johannesson K.R.Q.E.

R.(J. Murphy) Manager of Quality Assurance

KAPL-309 Shop Order N00376



UNITED STATES ATOMIC ENERGY COMMISSION SCHENECTADY, NEW YORK 12301

ADDRESS REPLY TO: THE MANAGER U.S. ATOMIC ENERGY COMMISSION P.O. BOX 1009 SCHENECTADY, NEW YORK 12301 AND REFER TO:

MAT: GPN

July 1, 1965

The General Manager Knolls Atomic Power Laboratory General Electric Company Schenectady, New York

Bear Sir:

Reference is made to your letter of June 24, 1965 wherein you requested verification of the vendor's Uranium Utilization Schedule submitted under KAPL Purchase Order NPB-6818.

The data on the vendor's schedule have been confirmed and we find no discrepancy in the schedule.

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The above information is furnished so that KAFL can proceed with the final close-out of the above mentioned purchase order.

Very truly yours,

D. W. Short, Director Materials Division

cei J. J. Coomes

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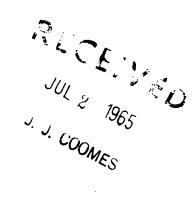
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M & C SCH 59-225

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CW. Yelson E. M. Melson



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TEPRODUCED AT GOVT EXPENSE # 18

N. & C Huclear, Inc. Materials Schedule Dated March 11, 1959, for Supply Contract SCH 59-27

March 19, 1959

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Mr. R. C. Trazler Building E-1, Messanine KAPL

The following portions of the subject Materials Schedule have been verified by receiving reports (Form AEC 101) in our files:

A. Zircaloy-2

1.a. The total of 1,350 pounds of chop stock was shipped to N & C for use on SCH 59-27.

- B. Uranium
  - 1. The total of 92,208 grams (85 weight) was originally furnished M & C for use on SGE 59-27.

An amount of 10,229 grams (SS weight) was returned to KAPL from M & C.

2. A total of grant with an SS weight of 55,727 grants was received by KAPL from A & C.

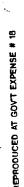
A total of 559 radiation samples with an 88 weight of 649 grams was received by KAFL from N & C.

That portion of B.4.a. entitled "Scrap Shipments to Date" listing 5,225 grams (SS) is verified by copies of shipping reports (Form AEC 101) located at the AEC. The other part of B.4.a. entitled "Waste Shipments to Date" cannot be verified because all solutions are shipped to Oak Ridge in 55gallon drums without any reference to quote or contract numbers.

Out of all the material still at N & C the only item Naterials Accountability is desirous of having returned to KAPL is the 315 grams (88)

L. E. DURED, MATERIALS ACCOUNTABILITY

LED:sal





TELEPHONE 1-3800

March 11, 1959

File: KAPL-76 IV 12

- The Manager U. S. Atomic Energy Coumission P. D. Box 1969 Schemectsdy, N. Y.

Attention: Mr. W. J. Prime

Centlemen:

\$ 196.2 50 most

8 1150000

R. C. TRAXLER

Supply Contract SCE 59-27

This will acknowledge your letter SD:WJP of March 3, 1959, transmitting IV 12 to Supply Contract SCH 59-27. The attached report is submitted in compliance therewith.

We concur that the IV does not affect the scope of the contract.

We would like to present, at this time, the following proposal for your consideration: We propose to convert the usuable scrap on hand (see Section B3 of report) to a more useable form--either 4" diameter ingets

grame of Scrip, Approximitely 95% would be converted to one of the above forms, whichever would be preferred, reducing the scrap to about 5,000 grams. The price for conversion would be \$1,569.60 total for eight 4" ingots or \$3,878.40 total for eight 1" x 6" slabs, FOS our plant in Attlebore, Massachusetts. The alloy of the material is 13.75 weight percent enriched uranium in Zircsley . Each inget will be analyzed for copper, tungsten, mitrogen, and hydrogen. Fc (?)

We await your disposition instructions and your feelings in regard to weur proposal.

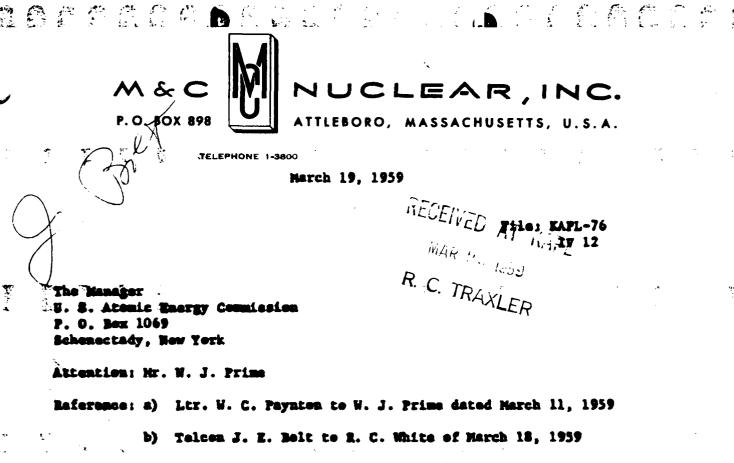
Very truly yours,

W. C. Paynton Project Administrator with the man have been been and the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the

CC: N. W. Ward /R. C. Traxler/S. Sturges

space accounting to fes Deven 3/15/59

Contract calls for N's F. & 4 W for rach mar - older importingly sempling flan W. F. C. N's required log + bottom myst location (augs Oxfor W'C, 4 Fr) N' J Sampling Ifan - Impunty analysis for each high for an N'2, H2, Fr, & B



Gentlemen:

### Supply Contract SCE 59-27

As requested in reference b), the proposal concerning useable scrap conversion made in reference a) is hereby emended to include the sampling of each of the eight ingets at top and bettem locations for uranium in addition to copper, tungsten, nitrogen, and hydrogen as proposed. The increase for this additional work is \$201,60, making the price for eight 4" ingets \$1,71,20 total or for eight 1" x 6" slabs \$4,080.00 total.

Other conditions of our proposal remain the same.

16/201 16/201 41 32 40 80

REPRODUCED AT GOVT EXPENSE

W. C. Payston Project Administrator

Very truly yours,

11/1

CC: Mr. W. W. Nard - SWROO Mr. R. C. Traxler/Dr. S. Sturges - KAFL

4				<u>r r</u>				AND PA	APERS REV	ATING TO THIS O	ORDER
	ODER ATOMIC ENERGY COMMISSION							OUDER NC.			-1550
POINT O											
	FOINT OF ISSUE U. S. Atomic Energy Commission P. O. Box 1069						SCE-59-275				
Schenectady, New York						BECULSTAIN NO. S.O 438-102					
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DELIVERY CODED UNDER CONTRACT NO.					May 12, 1959						
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BELIVER		on: Mr	. W. C. P		FOR BELIVE	C VIA		ERRITENT B/L NO.	1 stere	TUNT TERMS	
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## ACCOUNTABILITY

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Suitable accountability procedures must be set up to account for all fissionable material at every step in the manufacturing process. Such procedures must be in accordance with existing AEC Regulation (Vol. 7000, Part 7400, Materials Accountability, AEC Manual).

Terms and Conditions, Form 103a, as modified, by Alterations pages 1 thru 3, are applicable, and made a part hereof.

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REPRODUCED AT GOVT EXPENSE # 18

General Electric Company HNORIS ATOMIC POWER LARCHIEDRE Behenochody, New York

> September 23, 1959 NJFB-19²

The Manager Schenectedy Nevel Reactors Operations Office United States Atomic Energy Couniscion Knolls Atomic Power Laboratory Schenectedy, New York

Attentica: Mr. W. W. Ward

Subject: COMPLETION OF WORK ON CONTRACT SCH 59-275

Dear Sir:

Work on the subject contract has been completed, and the ingots have been shipped to HAFL.

By copy of this letter, I am requesting NCC Material: Accountability to obtain an accounting of all Government owned material used by the vendor.

I will be happy to supply whatever assistance is required to close out this contract.

Very truly yours,

Nuclear Core Production Engineering NUCLEAR CORE OPERATION

JJMiller/s

Manager, Nucleur Core Production Engineering NUCLEAR CORE OFFRATION

- cc: (2) Addressee
  - (1) W.J. Prime
  - (1) J.W. Boller(Lt. Cmar.)

KNOLLS ATOMIC POWER LABORATORY



COPIES: HS Dorr FC Hanny TW Kissinger CE Smith S Sturges

SUBJECT: Disposition of Remaining Scrap SCH 59-275

October 19, 1959

Mr. J. J. Miller Building E-l, Mezzanine KAPL

The utilization schedule for KAPL-furnished uranium and zircaloy on SCH 59-275 has been audited and found to be correct. All of the remaining scrap, being unusable or waste, it is our recommendation that M & C Nuclear, Inc., be instructed by the AEC to ship the 13,343 grams of uranium-zircaloy alloy scrap to the appropriate AEC installation for recovery of the uranium.

LEDu L. E. Duran, MATERIALS ACCOUNTABILITY

LED:sal





The Manager Schenectady Naval Reactors Operations Office United States Atomic Energy Commission Knolls Atomic Power Laboratory Schenectady, New York

Attention: Mr. W. W. Ward

Subject: CLOSE OUT OF CONTRACT SCH 59-275

Dear Sir:

Work on subject contract is complete. The utilization schedule for KAPL furnished Uranium and Zircaloy on SCH 59-275 has been sudited and found to be correct. All of the remaining screp being unuseable or waste, it is our recommendation that you instruct N & C Nuclear to ship the remaining 13,343 grams of Uranium-Zircaloy alloy screp to the appropriate AEC installation for recovery of the Uranium.

At the same time, the subject contract should be terminated.

Ferry truly yours)

Fuclear Core Production Engineering

JJMiller/s

Manager, Nuclear fore Production Engineering NUCLEAR CORE OPERATION

cc: (2) Addressee

- (1) W.J. Prime
- (1) A.D. Whitehead (Lt. Cmdr.)

1 C See !



P. O. BOX 898 Telephone 1-3800

# NUCLEAR, INC.

ATTLEBORO, MASSACHUSETTS

File: KAPL-107

June 19, 1959

Mr. Carl Nelson Knolls Atomic Power Laboratory P. O. Box 1072 Schenectady, New York

Subject: AEC Purchase Order SCH-59-275

Dear Carl:

I'm enclosing, as you requested, copies of the processes which we are using for the remelting of KAPL-76 scrap. The first six ingots will be melted by the direct consumable process which you and I discussed briefly over the phone and which is described in the flow sheet numbered EN 9-1116. We consider this technique to be proprietary information at this time and request that you keep it in confidence. The remaining two ingots will be melted by the usual single-tungsten, single consumable process which is described in the flow sheet numbered EN 9-1161. The processes are identical from sequence No. 40 to completion as shown in EN 9-1116.

I hope this information is what you wanted; if not, please let me know.

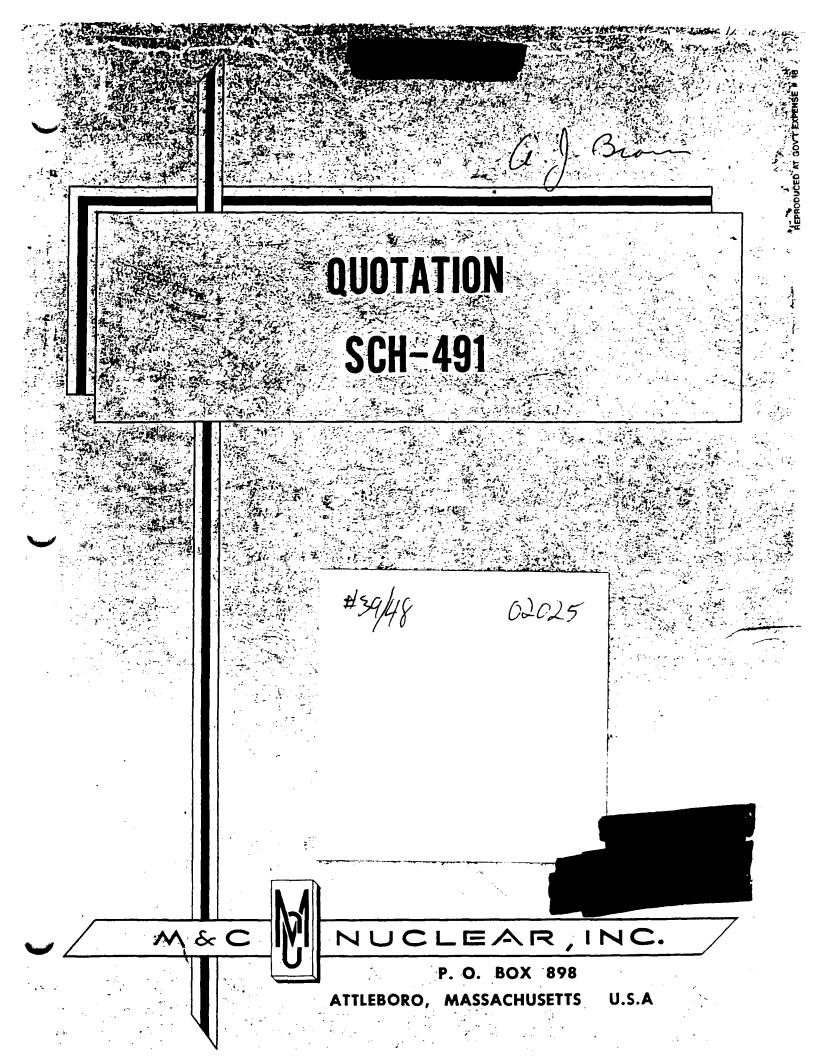
Sincerely yours,

R. B. Sager Project Administrator

RBS/bs Enclosures I

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QUOTATION

SCH-491

- M&C NUCLEAR, INC. ATTLEBORO, MASSACHUSETTS

. April 4, 1959

The Manager U. S. Atomic Energy Commission P. O. Box 1069					
Schenectady, New York					
Attention: Mr. J. D. Anderson					
Gentlemen:					
Subject: INVITATION TO BID NO. SCH-491					
M & C Nuclear is pleased to submit a quotation for the manufacture of cells and conversion of two lells generally in accordance with Invitation to Bid No. SCH-491.					
The following appendices are a part of this quotation:					
I. 'Alterations to The General Provisions Stu					
II. Exceptions to Drawings and Specifications when the fatter of the second					
III. Schedules CSm 5H					
IV. Process Outlines LINGS OURY / VINSTATION					
V. Resume of Subcontract Work WINK					
VI. Organization Chart					
VII. · Sampling Plans Jonans W. A NESTS I have the Hart. Beaut					
VIII. Cost and Price Analysis Forms Greatern,					
The firm fixed price for fabricating					
a. Reactor Cell Assembly KAPL PL139F969G4 F 139F969 G Heat					
b. Reactor Cell Assembly KAPL PL109F521G1					
c. Reactor Cell Assembly KAPL PL139F970G7 G 139F970 H					

and for conversion to reactor cell assemblies of:

a. 1 Unit Cell Assemblyb. 1 Unit Cell Assembly

# P. O. BOX 898 Telephone 1-3800 WILL EXPENDENCE AT 6001

is \$3965976.00, f.o.b. shipping door, M & C Nuclear, Inc., Attleboro Massachusetts. Terms on the progress billings are net, thirty (3C) days. Delivery shall be complete fourteen (14) months after execution of the contract, providing process approvals and Government furnished materials are received as requested in Appendix III.

In addition, M & C Nuclear, Inc. will fabricate, if so directed, three (3) reactor cells: 5

				Drawing	Revision
a.	2 Reactor	Cell	Assembly	KAPL PL139F96964	F
				139F <b>97</b>	Globienzy
Ь.	1 Reactor	Cell	Assembly	KAPL PL139F970G8	G) at $f$
				<b>139F970</b>	н )

The total price for this optional work is \$359/65.00. Delivery will be completed three (3) weeks after final delivery of the initial requirement. This option may be exercised at any time within eight (8) weeks war. after execution of the contract without further effect on price or delivery. ]

The proposed program reflects the best delivery at a minimum price and maintains the required priority to assure satisfactory completion of the work. Technological and organizational procedures developed in carrying our other Naval core work, past and present, will further insure prompt delivery.

Some specific examples of M & C Nuclear's experience in fabrication of the S3G/S4G type reactor cells are:

Contract	Scope	Schedule Completion	Actual Completion
AT(30-3)-248	Fuel Development	8/30/58	8/8/59
SCH-58-41	2-Cores	9/15/58	1/6/59
Olin Mathieson Approved Manufac Corrosion Testir program.	Fabricate 25 S/A cturing, <u>Analytical</u> , X-2 ng, and Pickling facilit	Dependent on receipt of material from OMCC ray, Ultrasonic, Ed ties are available	NEW EQUIP. OUT dy Current. for this

M & C Nuclear's standard operating procedures conform to the security and accountability regulations of the Commission and adequate staffs are maintained to assure compliance with the AEC manual.

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This proposal is based on use of Government furnished tooling and equipment as listed in the Schedule to Invitation to Bid No. SCH-491. A schedule for the receipt of this material is included in Appendix III. If M & C Nuclear's offer to purchase the tooling and equipment under Contract AT(30-3)-216 is accentable to the Commission, the prices quoted herein will not be affected. The material listed in the Zirconium of Ingots Inventory and the Zircaloy Vacuum Melted Shape Inventory cannet be utilized in the manufacture by these cells

A Project Office, responsible solely for the S4G Reload project, has been established to coordinate efforts within the company and to maintain close liaison with your organization.

Thank you for this opportunity to bid on your requirements. We shall be pleased to discuss this proposal with you at your convenience and look forward to participating in this very important Naval Reactor Program.

Cordially yours,

George L. Williams President

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APPENDIX I

ALTERATIONS TO THE GENERAL PROVISIONS

#### APPENDIX I

### ALTERATIONS TO THE GENERAL PROVISIONS

Clause 6. (i) At the end thereof, add:

"The delivery point shall be at the M & C Nuclear plant in Attleboro, Massachusetts."

- Clause 6. (ii) Delete in toto, since "all risks" could include nuclear liability.
- Clause 11. (c) Add the following to the last sentence: ", at the same price."
- Clause 22. Add the following sub-paragraph

"(f) For the purpose of this contract, under this Clause 22, personal property, which is acquired by the Seller or furnished by the Buyer and/or the Government, and used in the performance of this contract, title to which on the tax assessment date is vested in the Government, and any interest which the Seller may have in such property, are considered exempt from personal property taxes. Further, the provisions of paragraph (c) of this article shall be applicable to personal property taxes that may be assessed on such property or the Sellers interest therein, and the contract price shall be increased or decreased in accordance with the provisions of such paragraph (c) for such taxes or the allocable portion thereof, and any interest or penalty thereon which would otherwise be subject to adjustment under paragraph (c). The Seller warrants that the prices in this contract do not include any amounts as a contingency reserve or otherwise on account of any such taxes on personal property or any interest therein."

(This clause is in our Contract No. AT(36-1)-53, was added by the AEC and was so added because of the March 1958 Supreme Court decisions regarding taxibility of Government property.)

Clause 33 (b) Add the following to the next to last sentence: ", nor for the cost of removing irradiated materials."

and add the following to the last sentence. ", without cost to the Contractor."

Clause 37 M & C Nuclear requests indemnification for nuclear liability under Section 170 of the Atomic Energy Act, as amended, or an equivalent substitute.

Clause 38 (a) (2) Delete in toto and substitute therefore:

"Upon completion of this contract, all unused zirconium sponge, scrap, residues, and all unused zirconium which has been processed into final form may be purchased by the Commission at -2-

URBEARING MAT BEFOREL a fair value consistent with the form of the material. Any of this material not purchased by the contracting officer shall be disposed of at the expense of the contractor."

Clause 38 (b) In the second line of this paragraph, between the words "quantities" and "set" add "and form."

Clause 38 (b) (1) Add:

"The charges outlined above shall not be applicable to the replacement of materials lost as provided under Paragraph (c) below."

Clause 38 (b) (4) Delete the last sentence and substitute therefor:

"No payment will be allowed to the contractor for the materials so returned, except for necessary shipping costs. The Commission will provide any special containers required for shipping nuclear materials."

Clause 38 (b) (5) Delete the last sentence of the first paragraph and substitute therefor:

> "No payment will be allowed to the contractor for the materials so returned, except for necessary shipping costs. The Commission will provide any special containers required for shipping special nuclear materials."

Clause 38 (b) (6) Delete the last sentence of the first paragraph and substitute therefor:

> "No payment will be allowed to the contractor for the materials so returned, except for necessary shipping costs. The Commission will provide any special containers required for shipping special nuclear materials."

Clause 38 (c) Delete in toto and substitute therefor:

"The contractor shall not be liable for loss or destruction of or damage to government-furnished property in the contractor's possession unless such loss, destruction or damage results from willful misconduct or lack of good faith on the part of the contractor's managerial personnel, or from a failure on the part of the contractor's managerial personnel to take all reasonable steps to comply with any appropriate written directives of the contracting officer to safeguard such property. The term "Contractor's managerial personnel" as used herein means the Contractor's directors, officers, and any of its managers, superintendents, or other equivalent representatives who have supervision or direction of all or substantially all of the Contractor's operation at any one plant or separate location at which this contract is being performed."

Clause 38 (e) / Add to the end of the last sentence:

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", provided, however that if the Contractor has, with the written approval of the Contracting Officer, processed or partially processed the material rejected before rejection is determined, the Contractor will be paid its reasonable costs incurred in the processing of the rejected material to condition at rejection. In the event test or analyses by the Contractor made after initial acceptance of the material of this article indicate that the material does not meet the required specifications, the Contracting Office will determine whether the material as furnished by the Commission caused this subsequent rejection. If the Contracting Officer determines that the material did not meet the specifications at the time it was furnished to the Contractor, then the Contracting Officer may, at his election:

Approve rejection of the material and replace it in the form rejected, without cost to the Contractor; or

2. Approve rejection of the material and replace it with an equivalent amount of unprocessed materials, without cost to the Contractor, and pay to the Contractor its reasonable costs of processing the new material to a form of the rejected material at the time of rejection. Upon request of the Contracting Officer, the Contractor shall furnish information with respect to such costs.

Clause 41

Add the following as Clause 41:

-3-

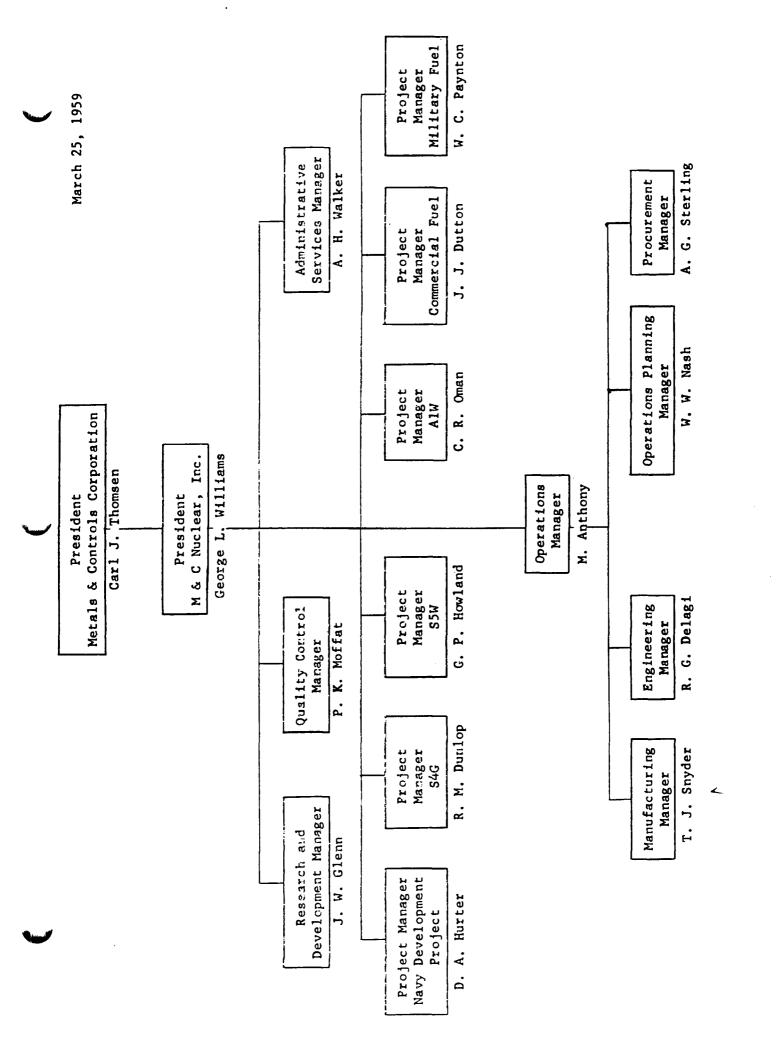
"Delivery of the items supplied under this contract shall be made not later than_____ provided:

- (i) All materials to be furnished by the Commission to the Contractor are supplied as scheduled in Appendix IV.
- and (ii) Manufacturing releases are given to the contractor by as scheduled in Appendix IV.

In the event the Contractor's work is delayed by reason of the supply of Government furnished material or granting of manufacturing releases an equitable adjustment of the delivery hereunder shall be made.

The Contracting Officer shall accept delivery of the items called for by this contract within two weeks after notification by the Contractor of their readiness for delivery."

BE CAREFUL.



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