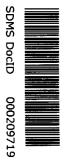
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KING IS ANOMIC FOWER LATCRATORY P.O. BOX 1072 REPRODUCED AT GOVT EXPENSE # 18 SCHENECTADY, NEV/ YORK -December 31, 1958 Date: MC Miclear, Inc. To: P.O. Ecx 898 Attlatoro, Mass. Att. ction: Mr. M. Payntion Fuel, MPD-40224-K Subject: Instruction to Vendor No. 4 Reforence Flease produce the following items against NFD-40224-K. This IV supersedes and emends IV #3 Fraceed with this IV inmediately.

All of the above material shall conform to KAPL Spec. KFM3-41, deted 3/3/58 as stated on original order.

Zircaloy is to be used as an alloy base natural uranium shall be used with loadings as specified above.

(continued on Page #2)

RECEIPTION REPAILS AND REPAILS

Date:	Dece	mber	31,	1.958	
ĩo.	MEC	Bucle	ær,	Inc.	

Attention: M. Paynton

Subject: Fuel, NPD-40224-K Instruction to Vendor No. 4

Feisrence:

PAGE #2

Normal boron shall be used with loadings as specified above.

The method of measurement shall be subject to KAPL approval.

Any material which upon examination after receipt at KAPL does not conform to all requirements of this IV shall be rejected and is not considered part of the purchase order.

Note: C.J. Bier/R. Adeas shall have technical cognizance of this IV.

All other conditions and provisions of original contract remain in effect.

Cognizant Requester:

KNOLLS ATOMIC POWER LABORATORY SCHEHECTADY, NEW YORK

Daie:	December	31,	1958
-------	----------	-----	------

To: MEC Huclear

Subject: Fuel - NPD-40224-K Instruction to Vendo: No. 4

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

Tranchistal Fixed Price	
723 386	
731-285	

(SIGNATURES REQUIRED)

Financial Representative

Approved: 7th Level Manager

6th Level Manager

5th Level Managor

4th Level Manager

General Manager

DISTRIBUTION:

R.C. Aders C.J. Bler H.F. Brown L.V. Kjær J.M. Mylroie W.A. Boiez - Win. J.S. Roicki C.E. Suith (2) (8. Sturges W.J. VanEatten J.V. Goldthwaite E.A. Rufer A.B. Oppenheim W.W. Ward (2) C.S. Haugh W.H. Perpin H.R. Pagano (2) A. Ley A. Kephart (ORK; HE108 L. MAISEL

Cognizant Requester:

KNCELS ATOMIC POWER LABORATORY P. O. BOX 1072 SCHENECTADY, NEW YORK

Date: December 23, 1958

To:

M&C Nuclear, Inc. P.O. Eox 893 Attleboro, Mass.

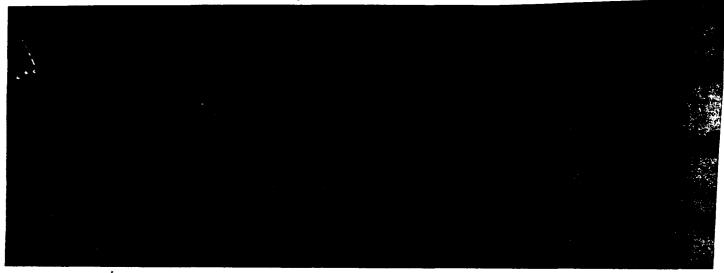
Attention: Mr. V. Paynton

Subject: Fuel, EPD-40224-K Instruction to Vendor No. 3

Rolerence:

Please produce the following items against MPD-40224-K.

Proceed with this IV immediately.



All of the above material shall conform to K/PL Spec. SKFN3-41, Rev. 1, dated November 24, 1958.

Zircaloy the is to be used as an alloy base natural uranium shall be used with loadings as specified above.

Hormal boron shall be used with loadings as specified above.

(continued on Page #2)

J Bin/m Cognizant Requestor:

NTIOLES ATCHIC POWER LAUDRATORY P.O. BOX 1072 SCHENECTADY, NEW YORK

December 23, 1958

Attention: Mr. W. Paynton

Subject: Frel, HPD-40224-K Instruction to Vendor No. 3

Roierence:

PAGE 12

There is no requirement for hardness.

Co: litions and	edges shall be as follows:	

Flugging is not allowed.

Qualification in accordance with Paragraph 4.1.1(a) is not required.

Use of Appendix A is excepted and sampling shall be as noted above.

Additional requirements or exceptions:

The quality assurance provisions (only) of Paragraph 3.2.2 are excepted.

Add to Paragraph 3.10 the following to be used in lieu of standards: Surface leffects including cracks, slivers, blisters, seems, laps, pitting and foreign nutter aball not be more than G.030" in diameter and/or length - nor more than 0.005" in depth. Note: East no such defect shall be closer than 0.030"____

(continued on Page #3)

Jasie

Cognizant Requestor:

Date: December 23, 1958 To: M&C Muclear, Inc.

Attention: Mr. N. Paynton

Subject: Fuel, NPD-49224-K Instruction to Vendor No. 3

Relerence:

PAGE #3

to another defect and no more than 3 such defects in a local area defined by a 1" diameter circle with no more than 10 such areas on any finished surface (does not involve edges).

The requirement for statistical method noted in Paragraph 4.2.2.4 is deleted.

The method of measurement shell be subject to KAPL approval.

Any material which upon exemination after receipt at KAPL does not conform to all requirements of this IV shall be rejected and is not considered part of the purchase order.

Note: C.J. Bier/R. Adams shall have technical cognizance of this IV.

(J)Cognizant Requester:

υ

Lacember 22, 1950 💱 🗶 🖯 Kuclear Antleboro, Massachusetts Siljech FUEL to Vendor No. 3 NHO SUZZY-K. Source tion Transmittal Action Required by C & P Fixed price Type Contract Source of Funds 731-185 Shop Order No. \$1.000.00 Dollars, This Change (Est.) Dollars, Accumulativa (Est.) Dollars, Presently Committed (SIGNATURES REQUIRED) Financial Representative Approved: 7th Level Manager 6th Level Manager 5th Lovel Manager 4th Level Manager General Manager DISTRIBUTIC ME RC Adams CJ Bier HF BrOWT. LV Kjar JM Mylroie WA Nelsz JS Roteli 12/23/8 CE Smath Calle Surges S/ F.D.L S WJ Vanlictten JV Goldbinaite EA Rufer CODD S N N

CJBei

Cognizant Requester.

A Oppenheim MN Werd (2) CS Heugh VH Pappin

ER Pegmo (2)

KNOLLS ATOMIC POWER LADORATORY P. O. BOX 1072 SCHENECTADY, NEW YORK

Data: December 18, 1958

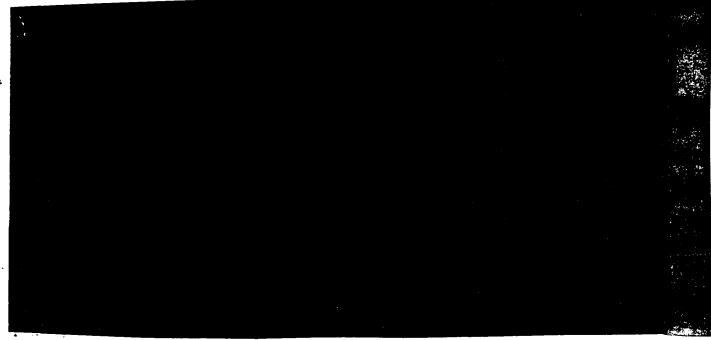
No: M& C Nuclear, Inc. P. O. Box 898 Attleboro, Massachusotts

Attention:

Subject: FUEL Subject: FUEL inquiry Reference: NPD 40224-K

Please produce the following items against NFD 40224-K.

Prior to initiation of production, the vendor is to submit price quotations on items as listed.



(Continued)



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THELES ATCIME POWER DA DRATOTT 2. O. DOX 1072 SCHEMECTADY, NEW YOLK

Date: December 10, 1958

F 138. 2

To b & C Nuclear, Inc.

Atention: W. Payaton

Subject: FUEL Inguiry to Vendor No. 2

Faierence: NPD 40224-K



All of the above material shall conform to KAPL Specification CKPM-3-41 Revision 1, dated November 24, 1958.

Zircaloy- is to be used as an alloy bace.

Natural uranium shall be used with loadings as spacified above.

Nothal boron shall be used with loadings as specified above.

There is no requirement for hardness.

(Continued)

Cogaizant Requester

NUCLES ATOMIC POWER LAUDRAUGEY P.O. BOX 1072 SCHEMECTADY, NEW YORK

Data: December 18, 1958 Page 3

To: M& C Ruclear, Inc.

Attention: W. Paymion

Subject: IFIEL Trigulary to Vendor No. 2

Relationce: EPD-40224-K

Conditions and edges shall be as follows:

Plugging is not allowed.

Galification in accordance with paragraph 4.1.1 (a) is not required.

Use of Appendix A is excepted and sampling shall be as noted above:

Additional requirements or exceptions:

The quality assurance provisions (only) of paragraph 3.2.2 are excepted.

Add to paragraph 3.10 the following to be used in lieu of standards.

Surface defects including cracks, slivers, blisters, seems, laps, pitting and foreign matter shall not be more than 0.030" in diameter and/or lengthnor more than 0.005" in depth. Note: that no such defect shall be closer "than 0.030" to another defect and no more than 3 such defects in a local area defined by a 1" diameter circle with no more than 10 such areas on any finished surface (does not involve edges).

Cognizant Requester:_____

(continued)

RENOLLS ATCHIC POWER UNICENTICKY P. C. BOX 1072 SCHENECTADY, NEW YORK

Dato: December 18, 1958

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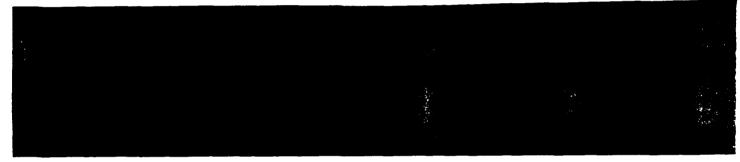
To: M& C Mucloar, Inc.

Attention: W. Paynton

Subject: FUEL Inquiry to Vendor No. 2

Reference: NPD 40221-K

The requirement for statistical method noted in paragraph 4.2.2.4 is deleted.



Any material which upon examination after receipt at KAPL does not conform to all requirements of this IV shall be rejected and is not considered part of the purchase order.

Note: C.J. Bier/R. Adams shall have technical cognizance of this IV.

Quotes due at KAPL on Lecember 29, 1958.

This order is in addition to present order.

Cognizant Requester:_____

KNOLLS ATOMIC POWER LABORATORY SCHENECTADY, NEW YORK

£		
Date:	December 18, 1958	
Tœ	M & C Nuclear, Inc.	
Subject:	FUEL Inquiry to Vende: 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	
		(SIGELATURES REQUIRED)
	Financial Representative	······
	Approved: 7th Level Manager	•
	6th Level Managar	·
	Sth Lovel Manager	•
	4th Level Manager	
	General Managor	
UTION:		
Adams Bior Bronn X Kjar	4B 12/17/58	

JM Molroie WA Naise JS Roichi CE Smith S Sturges WJ VanNatten JV Goldthwaite

This IV has wowwards OK - KTB

KNOLLS ATOMIC POWER LABORATORY P. O. BOX 1072 SCHENECTADY, NEW YORK

Date: 1/12/59

To: M&C Nuclear, Inc. P. O. Box 898 Attleboro, Mass.

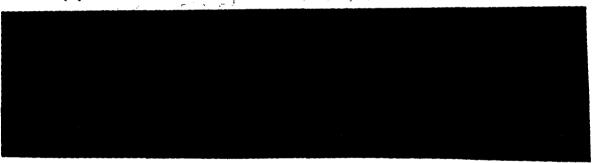
Attention: Mr. W. Paynton

Subject: Fuel Instruction to Vendor No. 5

Reference: NPD-40224

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Delivery of 17 pcs. of Item 1 and 2 by 2/5/59 - balance by 3/5/59.

All other conditions and provisions of contract remain the same.

You are directed to proceed immediately.

er Cognizant Requester

KNOLLS ATOMIC POWER LABORATORY SCHENECTADY, NEW YORK

1/12/59 Date:

To:

Subject:

M&C Nuclear, Inc.

Fuel Instruction

to Vendor No. 5

NPD-40224

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

	Transmittal
	Fixed Price
	R&D
	731-185
-	\$4,025.00 Vs \$11,596 or IV-4
	\$43.425.00
•	\$ 39,400,00
	, .

(SIGNATURES REQUIRED)

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Financial Representative

Approved: 7th Level Manager

6th Level Manager

5th Level Manager

4th Level Manager

General Manager

D16 Programing

TA.

3/sq

13/59

DISTRIBUTION:

- R.C. Adams C.J. Bier H.F. Brown
- L.V. Kjar
- J.M. Mylroie
- W.A. Neisz
- C.E. Smith (2) alpfg //3A.
- Sturges JbL s.
- W.J. VanNatten
- J.V. Goldthwaite
- A.B. Oppenheim
- W.W. Ward
- C.S. Haugh
- W.H. Pappin
- H.R. Pagano (2) WKR 1/13
- A. Levy
- Kephart Α.
- L. Maisel

Cognizant Requester

REPRODUCED AT GOVT EXPENSE # 18

KNOLLS ATOMIC POWER LABORATORY P. O. BOX 1072 SCHENECTADY, NEW YORK

Date: September 18, 1959

To: M & C Nuclear, Inc. Post Office Box 898 Attleboro, Massachusetts

Attention: Mr. W. Paynton

Subject: Disposition of Surplus Normal Uranium and Zircaloy Information to Vendor No. 6 - NPD 40224-K

Reference: NPD 40224-K

Pursuant to note 5, Paragraph 2-B you are instructed to dispose of the surplus material reported in Mr. R. C. White's letter of September 14, 1959, to Mr. F. C. Hanny of KAPL as follows:

1. Prepare and ship f.o.b. your plant the 51,441 grams of zircaloy chop stock and the 133,861 grams of NU/Zr usable scrap (item No. 4) identified by ingot number and NPD to:

> Knolls Atomic Power Laboratory Building M-2, Warehouse Schenectady, New York

Attention: Mr. L. Newman/W. D. Moak

2. Prepare in triplicate a detailed listing of the 44,724 grams of NU/Zr unusable scrap and waste (items Nos. 5 and 6) as per AEC Manual, Chapter 7430-064, which will be forwarded to SNROO for their evaluation and disposition instruction.

This IV does not affect the scope of this purchase order and in no way authorizes any increase in cost.

ran Cognizant Requester:

L. E. Duran

Date: September 18, 1959

To: M & C Nuclear, Inc.

Subject: Disposition of Surplus Normal Uranium and Zircaloy Information to Vendor No.6 - NPD 40224-K

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

	<u>م</u>
Information	
Fixed Price	
<u>R & D</u>	
None	

(SIGNATURES REQUIRED)

Financial Representative

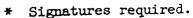
Approved: 7th Level Manager 6th Leve! Manager

5th Level Manager

4th Level Manager

General Manager

- DISTRIBUTION:
- RC Adams CJ Bier HF Brown LV Kjar JM Mylroie WA Neisz R Selzler * CE Smith (2)(S Sturges WJ VanNatten JV Goldthwaite AB Oppenheim WW Ward CS Haugh WH Pappin HR Pagano (2) A Levy A Kephart L Maisel FC Hanny DW Short ×





NPD 42088-Mic

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SOLUTS ATOMIC POWER TABOLATORY AND HOLEDIR SCHENECTADY, NEW YORK

500 0055ber 2, 1959

The State St

And the Revision

Soles Misson in aste Morpel frantum referention average a. 2 - 120 42088

Address Mr. IN Miller's Betwee to Mr. To Honry 300 42088

The son further to dispose of weste school urenius referred to in the reference letter as follows:

Scenare in Triplicate a detailed listing of the 558 grams (SS weight) of MU/M: sente as per ASC Manuel, Chapter 7430 COS, which will be Torwarded to MURIO For their evaluation and disposition instruction.

This if does not affect the scope of this purchase order and in no way authorizes any increase in cost.

Cogrezant Requestor: L.E. D

L. E. Duran

ant sites die alle site, g.v. finder i

Date October 2, 1959		
h HEC Hutlear,	Inc.	
	Vender No. 1 - MPD 42088	
	Action Required by C & P	Information
	Action Required by C a P Type Contract	fixed price
ý .	Source of Funds	
	Shop Order No. Bollars, This Change (Brd	Keps.
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ENCLES ATOMIC TOWNER LEADORATORY *.0: 400-002 SOMECLARY, NEW 1082

Den Hovember 10, 1959

The Mullear, Ino., Attleboro, Massachusetts

Annales & Seger

Sound Southart Assumance PROVISIONS DIA GRIL MOCK-OP HPD 11/10) Lafermations Vada No. 29

tileter.

- SAPL THE HE-6-59 Mard to Sager/Pappin/Deegan. The following is confirmed. To most the requirements of the subject orders
- A The process approval samples requested by IV-10 and amendment 3 and ALEL approved.
- h. Repair procedures used on the fuel block-subassembly extension brackets while and repair procedures IX and IX are KAPL approved.
- 5. Cleanliness requirements for this order are standard MC cleanliness requirements for Zillogloy • material.
- a. Tries standards and procedures previously subsitied are approved.

The permissable concentration of such weld defects shall be as followed



- s. IV-17 should be cancelled because this information is included in IV-12.
- 1. Filler wire from M&C No. NOOL86 M&C Purchase Order 10018 Hear No. 28120 is acceptable for use on this purchase order.

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Θ		Printed by CROMWELL PRINTERY, INC. ALBANY I, N. Y. N.Y. N.Y. N.Y. N.Y. N.Y. N.Y. N.	ENSE # 18
~		Action Required by C & P Amendment Type Contract Fixed Frice Source of Funds 721-613 Dollars, This Change [Est.] Reduction \$700.00 Dollars, Presently Committed \$10,743.00	I I I I I REPRODUCED AT GOVT EXPENSE
· · · · · · · · · · · · · · · · · · ·		(SIGNATURES REQUIRED) Financial Representative Approved: 7th Level Manager 6th Level Manager 5th Level Manager 4th Level Manager General Manager	-
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M.C. Wal . Gogalana Request

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NPD 01733 - M & C

General Electric Company KNOLLS ATOMIC FOWER LABORATORY Schenectady, New York

December 4, 1961

EVALUATION OF BIDS AND AUTHORIZATION FOR ORDER PLACEMENT Subject: RQ-12154

Quotations Received From: References:

- (1) United Nuclear Corporation, dated 11/22/61
- (2) Metals and Controls, Inc., dated 11/18/61
- (3) Babcock and Wilcox Co., dated 11/21/61
 (4) Combustion Engineering, Inc., dated 11/17/61

Mr. R.P. Williamson Bldg. A-4 KAPL

The reference bids have been reviewed by NCME Experimental and Critical Assemblies. Tabulated below is a comparison of the bids followed by our comments and recommendation:

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\checkmark	Ev	alustion of Bi	ds	
Vendor	Item	Total Cost To KAPL	Delivery	Remarks
1. UNC Corp.		\$20,621	4 wks. ARO and material	Non-Conforming (guaranteed basis)
UNC Corp.		\$20,621	l whos. ARO and material	Non-Conforming ("best effort" basis)
2. M & C Inc.		\$ 4,105	h wks. ARO and waterial	Non-Conforming ("best effort" basis)
N&C Inc.		\$ 4,105	4 wks. ARO and material	Non-Conforming (min. guarantee on tolerance and yield)
3. B & W Co.	Decline to quote			
4. C E Inc	Decline to quote			
5. Westinghouse-	No quote			

Mr. R.P. Williamson

Regarding the above evaluation of bids, we submit the following comments:

- 1. United Nuclear quoted \$20,621 for a finished product supplied on a guaranteed basis (ref. 1, dated 11/22/61). Subsequently, United Nuclear was requested to quote on a "best effort" basis. Negotiations resulted in the same cost of \$20,621. This cost is unacceptable to KAPL.
- 2. Metals and Controls quoted \$4,105 for a finished product supplied on a "best effort" basis (ref. 2 dated 11/18/61). Subsequent negotiations resulted in a minimum guarantee on tolerances and yield of the straight (plus scrap) for a cost of \$4,105. The minimum guarantee including a 5% process loss is acceptable to KAPL. In addition, the cost of \$4,105 is considered fair and reasonable for the work to be performed.
- 3. A four week delivery is acceptable to KAPL (ATR Reactor Physics).
- 4. This program was NR approved in Letter #A 924, dated October 20, 1961, RD:N:DN Schmoker.

Based on the above evaluation of bids, it is recommended a purchase order be awarded as soon as possible to Metals and Controls in the amount of \$4,105.

J. R. Dasen

NCME Experimental and Critical Assemblies NUCLEAR CORE OPERATION

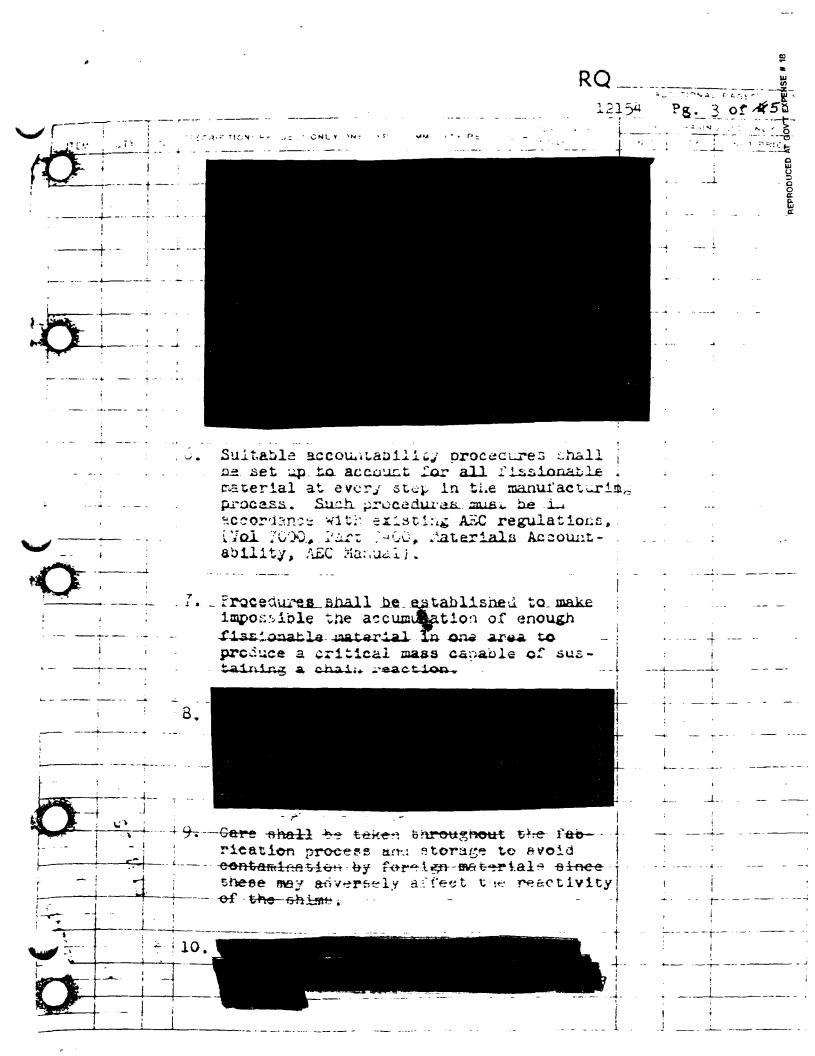
JRD: by

cc: HF Brown JJ Coomes/TW Kissinger JW Noaks/RG Luce EO Porter Schl 1b/file

PIL PART 1-10-61) REVISED KNOLLS ATOMIC POWER LABORATORY FUNDING Request for Quotation RQ w_31 -¢ **A**EC OPG (PROCUREMENT & STOCKING) 60.00 in and VE Number e NAVY CONTRACT NO. will be used when té Date QUOTES required rial is practed. 12154 SUGGESTED SOURCES ğ TO PURCHASING: United Muclear Corporation, F Please obtain QUOTATIONS ONLY on Materials REPRODUCED Mc Busloar, Hill ---and/or services listed below PURCHASING USE ONLY - DO NOT WRITE IN THIS BLOCK Westinghouse - Klaipeville TW Kissenger SHOW FORMER NPD NUMBER IF AVAIL ABLE See Instruction 1h. REQUESTED DELIVERY DATE PURCHASING USE ONLY te se arias UNIT DESCRIPTION, REQUEST ONLY ONE TYPE COMMODITY PER R.Q. - - - - --ITEM OTY. NET PRICE UNIT DISC -----1 -----Hold Price ļ Total Price -9 •• •• •• • • • •• •• Q C CATEGORY OF SUPPLIES SUPPLY CATEGORY MUST BE INDICATED (X PRIME Y CONTROL ICONCUPRENCE JUAL C'A OR BUY PRIME 2 Keed CONCURRENCE BY QUALITY CONTROL NON-PRIME • If note of the blocks above are checked, the execution of this request indicates that the GIC SUPPLY CATEGORY IS "ALL OTHER." The execution of this request will NOT involve access to CLASSIFIED INFORMATION.
Material control, AEC and DOB EXCESS personal property lists have been reviewed and the abave material is not available from these sources. 0 The execution of this request will not involve procurement, stitument, or use of Source and Special Nucleo IN SMATERIAL INVOLVED, INITIAL THIS BLOCK noor THPROVED COGNIZANY ENGINEER OR REQUESTER PATE SUBMIT BLDG ED REODESTER: This form when completed and submitted to Purchasing will initiate action for QUOTATIONS ONLY or materials and/or services at scribed herein. This form is designed for use with Material Request form KAP of A PANT R. Pleade type or green envy pressum to insure legiblishy on all copies of both parts.

Use form KAP 61 B PART 1 when additional pages are required.

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	11. All scrap materials shall be accounted for in accordance with instruction 6 and			
	shall be returned to KAPL in a suitably clean condition.			
	12. No individual shim identification shall be required since subsequent utilization			
· · · · · · · · · · · · · · · · · · ·	by KAPL will not require it.			
	13Shipment:			
	A. KAPL will furnish vendor with shippin	9	i	
	containers to be used in delivering finished product.	••+	<u>، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، ، </u>	· · · · · · · · · · · · · · · · · · ·
	B. MIL_STD-129, Marking for Shipment and storage shall apply to this order	•		
	C. Individual packaging of shims shall not be required, however, vandor	· · · · · · · · · ·		
	shall package finished product in such a manner as to prevent damage			
	or contamination by foreign matter during shipment or storage.	+		
· · · · · ·		 		- ·
	14. Delivery:			
	KAPL requires and it is essential that delivery of items 1 through 4 be within			
	twenty-one (21) calendar days of receipt of order and materials.			
	15. Vendor shall submit a production schedule for SA	7.		
	approval within seven (7) calendar days after or placement. These shall be submitted to:			
	T. W. Elssinger IAPL P. O. Box 1072			
	P. 0. Box 1072 Schenactady, New York			
			+	
	16. Vendor shall submit a weekly status report by telephone or Two beginning seven (7) calendar	+	· ·	
	days after receipt of order and continuing until completion of order. This shall be submitted to:	ļ.		• · • ·
	T. H. Masinger			
	LAFL Bet. 698 or 7110 P. O. Box 1072			
	Schenectady, New York			

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REQUESTOR COPY

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ANTEM	QTY.	UNIT	DESCRIPTION: REQUEST ONLY ONE TYPE COMMODITY PER 9 0 - Please print or type	UNIT	JRCHASIN	
O^{-}			2. Prior to making any shipsonts to KAPL, vendor shall notify KAPL (J. J. Cocmes, Mgr. NCO			
			Materials Control) twenty-four (24) hours in thing advance to enable obtaining prior ABC-SERO approva		<u>+</u>	ED AT
			were speri notif actual and and redarios abbroad	·	<u> </u>	REPRODUCED /
			has been obtained.	+	·	
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			B. Vendor shall notify APL cognizent engineer not less then h8 hours in advance of initial rolling			ļ
$\overline{\bigcirc}$			of material to enable surveillance by KAPL representative.		1	
	···· ····	}			†	†
		<u> </u>	9. Vendor shall submit a process outline with bid for	1		
			KAFL information. Outline shall contain:			<u> </u>
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RECEIVED BEC 1 5 1931 R. P. DOODY, JR.

Date: December 12, 1961

To: Metals and Controls Nuclear, Inc.

Subject: NPD-01733 KAPL Authorization to Proceed With Work on Option A Instruction to 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	

Transmittal	
Fixed Price	
R&D	
7443-312	
\$3,955.00	
\$4.105.00	
\$150.00	

(SIGNATURES REQUIRED)

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

4th Level Manager

General Manager

U.S 1. 1. 1200 . .

DISTRIBUTION:

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CS	Hofmann/EWD Bunke
JD	Lee
LM	Loeb
JW	Noaks
	Rumbaugh
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Cognizant Requester: zen

KNOLLS ATOMIC POWER LABORATORY P. O. BOX 1072 SCHENECTADY, NEW YORK

Date: December 12, 1951

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

Attention: Mr. F. L. Cutrone

Subject: Order No. NPD-01733 KAPL Authorization To Proceed with Work on Option A Instruction to Vendor No. 1

Reference: (1) KAPL telegram dated 12/12/61 from RC Bisbee to M&CN, Attention: MR. F.L. Cutrone

Therefore, it is necessary to change the requirements in the subject order and denote the guarantee regarding quantity (560 min.) and finished gage ($.0245^n + .0010$) of Items 4 and 5 respectively.

KAPL hereby exercises Option A under the subject order. All work on Option A covering Items 4 thru 8 inclusive will be done on a "best effort" basis. In addition, M&CN is suthorized to proceed with work on Option A immediately. The charge for Item 4 is not to exceed \$2,010,00.

to exceed \$1,945.00.

Items 6, 7 and 8 are for the production schedule, Seller's inspection records and material order certification respectively.

The total charge for Option A is not to exceed \$3,955.00.

This I.V. No. 1 confirms suthorization to proceed with work on Option A previously forwarded in KAPL telegram dated 12/12/61 (Reference 1).

All other terms and conditions of the subject order remain in full force and effect.

Cognizant Requestor: R. Sanen

. The charge for Item 5 is not

General Electric Company KNOLLS ATOMIC POWER LABORATORY R. P. DOODY. JR. S Schenectady, New York January 2, 1962 NCME #820 The Manager Schenectady Naval Reactors Office United States Atomic Energy Commission JAN 1362 Knolls Atomic Power Laboratory Schenectady, New York JUNES NPD-01733 - INSTRUCTION TO VENDOR #1 Subject: Reference: (1) NR Letter from A. Radkowski; SIM RD:N:DN Schmoker A#924, dated October 20, 1961, to Manager, SNRO Dear Sir:

The subject IV has been questioned by your office since it appears that we have exercised an option on an order without your approval. While we did exercise an option, we did not feel that this required NR approval

. The following was discussed with B.F. Cowell on 12/27/61.



we felt that it was necessary to proceed in the above manner.

Admittedly, the wording of the order was poor and the word "option" should not have been used. The options were set up merely as a means of controlling the production of the order and assuring that <u>KAPL</u> received quality material in return.

As you know from the subject IV, it was not necessary to exercise Option B.

Therefore, IT an not isse was proceed with

work on the basis of Option A. The supply MAPL with quality crack-free shims. It appears that they will be able to supply MAPL with quality crack-free shims. They are at present in the process of shearing the shims to size in accordance with the requirements of the subject order.

Serbert FBrown

Herbert F. Brown, Manager Nuclear Core Manufacturing Engineering NUCLEAR CORE OPFRATION

HFB/EO Porter:bv

cc: WW Ward (8)

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RC Risbee JR Desen JV Rocks

Premium Transportation - MPD 01733

January 10, 1962

Nr. J. J. Burrows Marchouse Building N-1 EAPL

Presime transportation by McDonald Express has been authorized for a shipment of anti-interval on MPD 01733, H & C MacLear. The shipment will consist of four draws of material and is urgently required to continue the fabrication of the ATH reload at KAPL.

Connercial transportation cannot deliver and any in sufficient time to enable the schedules to be maintained. The shipment is being sent collect and should be charged to 5. 0. 7443-312.

> T. N. Kissinger Barleer Care Naterials Control Building O-1, Ext. 698

Approved

R. G. Luce, Manager SAR Beactor Physics

THE: COD

RED OWN THS

TW KISSINGEP KNOLLS ATOMIC POWER LABORATORY END PLS ACK

EXPRESS, CONTAINING SCRAP FROM ORDER.

CONFIRMING TELECON WITH YOUR K. DUFFY. RE NPD-01733- PERMISSION GRANTED TO SHIP 5 DRUMS CONTAINING ON 1-11-62, GAYS

ATTENTION... F CUTRONE

KAPL 1094 SCDY NY CLG - 1/10/62

THIS IS M AND C NUCLEAR GA PLS

PR ATTL 481 OK

ES PE OK

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THIS ORDER CONSISTS OF _____ PAGES.

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THE FOLLOWING INSTRUCTIONS SHALL APPLY

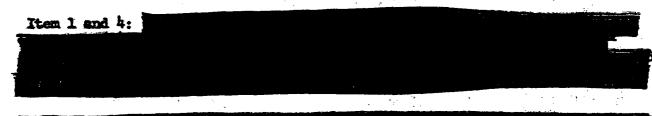
1. Under the provisions of Article IX entitled "Government Furnished Property" and Instructions herein, General Electric will furnish to Seller the following Government Property for use in connection with and under the terms of the order.

REPRODUCED

Also upon placement of the order,

material from other sources provided it is cartified to the order requirements and the certification is approved by KAPL prior to use. All material used by the Seller required by any order resulting from this inquiry shall be certified by the Seller as being KAPL-supplied material or KAPL approved material.

- 2.
- 5. DIMENSIONAL INSPECTION



itemized variable for shims in excess of specified tolerance.



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

VENDOR M & C MICLEBY, DOG.

PURCHASE ORDER NO. 01733-T

REPRODUCED AT

PAGES.

- 7. Care shall be taken throughout the fabrication process and staring to avoid contamination by foreign materials since these may adversely at ject the reactivity of the shims.
- 8. Finished fuel shins shall be suitably cleaned to remove surface dirt and all using actions.
- 9. No individual shim identification shall be required unless shims and outside specified tolerance limits.

10. Shipment:

OF

- A. KAPL will furnish Seller with shipping combainers to be used in delivering finished product.
- B. MIL-STD-129, Marking for Stipment and Storage shall apply to this order.
- C. Individual packaging of shims shall not be required, however, Seller shall package finished product in such a manner as to prevent damage or contamination by foreign matter during shipment or storage.
- D. To assure the muclear safety of all shipments, Seller will ship finished product in KAPL supplied shipping containers in a manner to be specified by KAPL at a later date and prior to shipment being made.
- E. Prior to making any shipments to KAFL, Seller shall notify KAFL (J. J. Coomes, Mgr. MCO Materials Control) twenty-four (24) hours in advance to enable obtaining prior AEC-SNRD shipping approval. KAPL shall notify Seller when the required approval has been obtained.
- 11. KAPL requires and it is essential that delivery be made as follows:
 - E. Item 7 within 6 calendar days after receipt of order.
 - b. Items 1, 2 and 3 within 3 calendar days after receipt of order and material.
 - d. Items 4 thru 8 inlusive within 4 weeks after General Electric exercises Option A.
- 12. The attachment entitled "Government Furnished Uranium Material" is hereby designated as Article 38 under Purchase Order Supplement, AEC-958, except Paragraph G which is deleted in its entirety.

GENERAL 🐲 ELECTRIC

13. The attachment entitled "Government Furnished Zircaloy Material" dated 9/23/60 is hereby designated as Article 39 under Purchase Order Supplement AKC-958 except Paragraph G which is deleted in its entirety.

M&C Muclear. Inc.

PURCHASE ORDER NO. 01733

14. Seller shall submit a weekly status report by telephone or TWX beginning seven (7) calendar days after receipt of order and continuing until completion of order. This shall be submitted to:

> T. W. Kissinger KAPL Ext. 698 or 7140 P. C. Box 1072 Schenectady, New York

VENDOR

PAGES.

OF

- 15. Seller shall notify KAFL cognizant engineer not less then 4 hours in edvance of a seller shall be enable surveillance by KAFL representative.
- 16. The following Quality Control Inspection regularments shall applys
 - a. KAPL Quality Control release of the item(s) in the order shall be performed at destination.

b. Supplies shall be fully inspected by the Seller to the appropriate drawings, specifications and other order requirements. Quantitative inspection results shall be recorded on inspection data sheets. Three (3) copies of data sheets shall be provided with the shipment. If supplies do not most order requirements and the seller elects to request KAPL disposition, a formal request for valver of order requirements shall be submitted to KAPL Purchasing via KAP-416 form or equivalent.

- 17. General Terms and Contitions of Purchase A80-958 are hereby modified as follows:
 - a. The following modification shall apply to Items 1 and 5 only.

Ref. Article XVI - Warranty and Article XV Inspection - Delete the words "or otherwise not in conformance with the requirements of this order" from the first sentence of subparagraph B each article in their entirety.

b. The following modifications shall emply to Item 4 only.

Ref. Article XVI - Warranty and Article XV - Inspection - Delete the words "or otherwise not in conformance with the requirements of this order" from the first sentence of subparagraph B each article in their entirety and substitute in lieu thereof "and thickness dimensional requirements".

18. Purchase Order Supplement, General Terms and Contitions of Purchase ABC-958 is hereby amended in accordance with the document outitled "Modification to ARC-958" dated 9/25/61 which is attached and made a part hereof; except Paragraph E which does not apply.

GENERAL 🛞 ELECTRIC

		KNOL		ase order	LABORATC)RY			BE # 3SN
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ATTACHMENT #1

Purchase Order NPD-44703-D

"XXVI - Taxes

A. As used throughout this article, the term "tax inclusive date" means the date of <u>negotiated</u> contracts and the <u>date set for the opening of bids for con-</u> <u>tracts entered into through formal advertising</u>. As to additional supplies or services procured by modification to this contract, the term "tax inclusive date" means the date of such modification.

B. Except as may be otherwise provided in this contract, the contract price includes all Federal, State, and local taxes and duties in effect and applicable to this contract on the tax inclusive date, except taxes (other than Federal transportation taxes) from which General Electric, the Government, the Seller, or the transactions or property covered by this contract are then exempt. Unless specifically excluded, duties are included in the contract price; and, if freight is included in the contract price, Federal transportation taxes are likewise included.

C. (1) If the Seller is required to pay or bear the burden (i) of any tax or duty, which either was not to be included in the contract price pursuant to the requirements of paragraph B or was specifically excluded from the contract price by a provision of this contract; or (ii) of an increase in rate of any tax or duty, whether or not such tax or duty was excluded from the contract price, or of any interest or penalty thereon, the contract price shall be correspondingly increased: Provided, that the Seller warrants in writing that no amount for such tax, duty, or rate increase was included in the contract price as a contingency reserve or otherwise: And provided further, That liability for such tax, duty, rate increase, interest, or penalty was not incurred through the fault or negligence of the Seller or its failure to follow instructions of General Electric.

(2) If the Seller is not required to pay or bear the burden, or obtains a refund or drawback, in whole or in part, of any tax, duty, interest, or penalty which (i) was to be included in the contract price pursuant to the requirements of paragraph B, (ii) was included in the contract price, or (iii) was the basis of an increase in the contract price, the contract price shall be correspondingly decreased or the amount of such relief, refund, or drawback shall be paid to General Electric, as directed by General Electric. The contract price also shall be correspondingly decreased if the Seller, through its fault or negligence or its failure to follow instructions of General Electric, is required to pay or bear the burden, or does not obtain a refund or drawback of any such tax, duty, interest, or penalty. Interest paid or credited to the Seller incident to a refund of taxes shall insure to the benefit of General Electric to the extent that such interest was earned after the Seller was paid or reimbursed by General Electric for such taxes. (3) Invoices or vouchers covering any adjustment of the contract price
(3) Invoices or vouchers covering any adjustment of the contract price
pursuant to the paragraph C shall set forth the amount thereof as a separate
item and shall identify the particular tax involved.
(4) Nothing in this paragraph C shall be applicable to social security taxes; net

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(4) Nothing in this paragraph C shall be applicable to social security taxes; net income taxes; excess profit taxes; capital stock taxes; Federal transportation taxes, except changes in the rate thereof, including repeal, pertaining to shipments from the Seller to General Electric; unemployment compensation taxes; or any State and local taxes, except those levied on or measured by the contract or sales price of the services or completed supplies furnished under this contract, including gross income taxes, gross receipts taxes, sales and use taxes, excise taxes, or franchise or occupation taxes measured by sales or receipts from sales.

(5) No adjustment of less then \$100.00 shall be made in the contract price pursuant to this paragraph.

D. Unless there does not exist any reasonable basis to sustain an exemption, General Electric agrees upon request of the Seller, without further liability except as otherwise provided in this contract, to furnish evidence appropriate to establish exemption from (i) any Federal tax, which the Seller warrants in writing was excluded from the contract price, or (ii) any State or local tax: Provided, that evidence appropriate to establish exemption from duties will be furnished, and Government bills of lading will be issued, only at the discretion of General Electric. In addition, General Electric may furnish evidence appropriate to establish exemption from any tax that may, pursuant to this clause, give rise to either an increase or decrease in the contract price.

E. (1) The Seller shall promptly notify General Electric of all matters pertaining to Federal, State, and local taxes and duties that reasonably may result in either an increase or decrease in the contract price.

(2) Whenever an increase or decrease in the contract price may be required under this clause, the Seller shall take action as directed by General Electric, and the contract price shall be equitably adjusted to cover the costs of such action, including any interest, penalty, and reasonable attorney's fees.

F. For the purpose of this contract, under this Article 26, personal property which is acquired by the Seller or furnished by General Electric, 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 Seller's 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."

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Subject to general terms	and conditions of attached	Purchase Supplement 📑 A	.EC - 958 🔲 N/	AVY - 858	
	DELIVER TO:			UNIT	DISCOUNT TOTAL
	Larchase order I August 21, 1959 further anended recrease the total in price is made in the work as sp 2. <u>Furchase Order 14</u> Original Acount of Increase by Acou Decrease by Acou Decrease by this	al price of the orde price of (13,155.00. to corpensate KAPL pecified by Change C rice Summry of Order heat No. 1 Acont No. 2 heat No. 3 Acontment No. 4 XUNT OF ORDER	nto is larely or by (500.00 This decrease for the decrease	for ase enso and and 00 Co co co co	

7.60) REV.		CHASE ORDER		
URCHASING		O. BOX 1072		ADY, NEW YORK
URCHASING MOP ORDER NO. M. R. NO. TO TO STI S C I BILLING INSTRUCTIONS (USE LETTER SHIP VIA REQUESTED ON SITE DELIVERY DA This order placed pursuant	KNOLLS ATOM         P.         COMM. NO.       DATE ORDERED         VENDOR CODE         MUCLOOF, Inc.         B 2         RHEAD ADDRESS):         RENDER INVOKES IN DUPLICATE TO:         ON PREPAID SHIPMENTS F. O. B. SHIPPIN         F. O. B.         ATE         ORDERED FOR         to Gov't Prime Contract No.         ATE         ORDERED FOR         to Gov't Prime Contract No.         AEC W-31:         and conditions of attached Purchase Supp         DELIVER TO:         CONFIRMING ORDER         A11 UTIOF TOTELS CONFIL	AIC POWER LABORAT	SCHENECTA	
	All other terms and could arended to date are to re encept as specifically an Certified for national de 18. 1. Seller is required to fol Regulation No. 1 and of a and orders of MDA in obta and other products and un order.	whin in force and a anded herein. fence use under DE low the provisions o il other applicable airing controlled to	flect, Regulation of NE regulations atorials	

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AUDITOF NAD 447034 MYC WUCKEAR ZIRC MAT'L FURNISHED BY KAPL PER PUR ORDERS 25 685 (TO BE USED FOR WIFLD MOCK UPS) ALL OTHER MAT'L FURN 154150 THROUGH BRISTOL MACH TOOL ON THE CONTREPOT 379. & WESTKOKE MFG ON THM ONTRACT 353. MYCNUCHEAR COMPLETED THE MOS SECTION 4 JHIDDED IT TO BRISTUL MACH TOUL FOR FINEL MACH. ON 11/ 16 159. AEDuran 5710/60

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Y-10644 09V

KA	P-6G (5-59)	REV.		KNOUS	PURCH 5 ATOMIC				7	TWK	/ve	)/cop	y to the	
•	PURCH	ASING				BOX 10			۱ SC	HENEC	TADY,	NEW	YORK	¥
Met Div Att	ADER NO. J-234 TO TO TO TO TO TO TO TO TO TO	exas I Mass	rols Corp. Astruments In	24/59 ]	TENDOR CODE	5	AN SHIP TO:	nd no. on d correspo <b>(NOLLS</b> Warehouse schenectal	ATO/ BLDG. N	MIC P		<b>b</b> 44	ORATC	
BILLIN SHIP V		NS (USE LETT		REPAID SHIPMENTS	UPLICATE TO: FINA 5 F. O. B. SHIPPING P 0. B.	OINT ATTACH	ORIGINAL TR		DO-E2			der		
REQUE	ISTED ON SITE	-	Inst. 7		DERED FOR	Room				<u>DMS Re</u> R. <b>M</b> .		^R <b>г/И</b> .	W. Ste	 ffen
	•	d pursuant	to Gov't Prime Cont and conditions of	· _	AEC W-31-109 chase Supplem	<b></b>	NAN	/Y NOBS 56	405 [ AVY - 858		Y NOBS	72103		<del>jjā</del>
ITEM	QUANTITY	UNIT			DESCRIPI	ION				UN	DU	SCOUNT	NET TOTAL	
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				(Conti	nued Page	2)								

		PURCHASE C	-			
REV.	KNO	LLS ATOMIC POW	•			
PURCHASING		P.O. BOX	1072	SCHENECTA	DY, NEW Y	ORK
/					PURCHASE ORD	
LDEE NO. M. R. NO.	COMM. NO. DATE ORDERED	VENDOR CODE	SHOW NPD NO. ON AND CORREST		NPD 44	ER NO. 101-1
Page :	d Controls Corp.		SCHENECTA	S ATOMIC POV E BLDG. M-2 DY, NEW YORK	VER LABO	RATORY
		ENTS F. O. B. SHIPPING POINT ATTA	CH ORIGINAL TRANSPORTATIO	<u> </u>		
SHIP VIA		F. O. B.	TERMS	DO-E2 Certified DMS Reg.		
REQUESTED ON SITE DELIVERY D	ATE	ORDERED FOR			BUYER	
Subject to general terms	The following in the following in the following in the second sec	Purchase Supplement DESCRIPTION IFIRMING ORDER IF CHECKED Instructions shall Curnish 100 lbs. Of Zircaloy -2 recovery by KAPL is insufficient by this order, add by KAPL at Seller per pound. All more required by the Seller as being for the vort shall	uested by the leient to compl litional Zircal er's expense at material used b this order sha g KAPL supplied	ete the oy -2 the y the 11 oc	DISCOUNT	NET TOTAL

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	URCH	ASING			۳.U						V ^ ^
500						BOX 107	<b>~</b>			DY, NEW	
SHOP (										PURCHASE O	
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I	Neta	ils and	Controls	s Corp.	1	SH		LLS ATOM		VER LAB	ORA
		Page 3						ECTADY, NEW Y			
1					}						
BILLING I	INSTRUCTION	VS (USE LETTER			in duplicate to: FIN						
SHIP VIA				ON PREPAID SHIPN	IENTS F. O. B. SHIPPING		RIGINAL TRANSPOR		Certified		
									MS Reg.		
REQUESTED	o on site	DELIVERY DA	TE		ORDERED FOR			BLDG.		BUYER	
This ord	ler placed	pursuant f	to Gov't Prime	Contract No.	AEC W-31-10	9 ENG. 52	NAVY NO	BS 56405		085 72103	
Subject	to gene	eral terms	and condition	s of attached	Purchase Supplei		EC - 958	NAVY - 858			لا
EM OL	UANTITY	111.000			DESCRIP	TION	······	1	UNIT	DISCOUNT	1
		UNIT		CON	IFIRMING ORDER J	E_CHECKED			PRICE		
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			4. S	urfece co	ndition she	11 be 63	rms or be	tter.			
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			the So	ller acs	umes full r	esponsibi	lity and	shall			
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1			Seller	r or anyon	ne performi		es for th	e Seller			

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		Law.	KNO	PURCHASE		TORY			
	RCH	ASING		P.O. BO			HENECTAL	DY, NEW	YOR
540	TO	M.R. NO.	COMM. NO. DATE ORDERED Controls Corp.	VENDOR CODE	AND CC SHIP TO: KNG	O. ON ALL PAC DRRESPONDENCE DLLS ATOM HOUSE BLDG. M	NIC POM	NPU	1701-
	1	Page 4				NECTADY, NEW			
		VS (USE LETTE)	HEAD ADDRESS): RENDER INVOICES I ON PREPAID SHIPM	ENTS F. O. B. SHIPPING POINT	TTACH ORIGINAL TRANSPO	RTATION BILL			
SHIP V	/IA			F. O. S.	TERMS		Certified DMS Reg. 1		
REQUE	ested on site	DELIVERY DA	TE	ORDERED FOR		BLDG.	e	BUYER	
			to Gov't Prime Contract No. and conditions of attached	AEC W-31-109 ENG. Purchase Supplement	52 🔲 NAVY NG	OBS 56405 [	~ ~	OBS 72103	
ITEM	QUANTITY	UNIT		DESCRIPTION	1		UNIT	DISCOUNT	א סד
			<ol> <li>8. With regard the Seller shall</li> <li>A. During f identificat:</li> </ol>	l: the course of t		ain			

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					PURCHA	SE ORDER					
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8	R NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE	SHOW N	PD NO. ON	ALL PACKA	GES 📐	PURCHASE	ORDER NO. 44701-Y
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- 10											
	Marker	7	Contract		ł.					VER LAI	BORATORY
	area a		Contro ⁷	e corp.			WAREHOUSE SCHENECTAD				
		Page	5					.,			
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LING INST	RUCTION	IS (USE LETTER	HEAD ADDRESS):		IN DUPLICATE TO: FINAN AENTS F. O. B. SHIPPING POI			BILL.			
IP VIA	<u> </u>				F. O. B.	TERMS		DO-E2	Certified	under	·····
		_ <u></u>			ļ		<u> </u>		AS Reg.		
QUESTED O	NN SITE	DELIVERY DA	TE		ORDERED FOR		BI	LDG.		BUYER	
is order	placed	pursuant 1	to Gov't Prime	Contract No.	AEC W-31-109 EI		VY NOBS 564	05		IOBS 72103	
				•	Purchase Supplemen			VY - 858			
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			to KAP	L.			·			1	
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				Atomic Po ctady, New	ower Laborato	ry				ļ	
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			This o	råer conf	irming telegr	an on August	19, 19	59			
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abject: Disposition of Ziruslay Serep Accumulated As of 1/16/60 on Purchase Orders MPL 44191 and MPD 44701

February 10, 1960

Metals and Controls Corporation Division of Texas Instruments, inc. Attlaboro, Hassachusetts

Attention: Mr. M. Payton

Gestlepen:

You are hereby instructed to propere and ship f.o.b. your plant the 125.5 pounds of sirealoy screp listed for NrD 44191 and the 24 pounds of sirealoy screp listed for NIT 44701 on Ar. H. F. Semple's report No. 5 dated 1/13/60 to:

> Enalls Atomic Power Laboratory Building M-2, Marehouse Schepectsdy, New York

Attention: Mr. L. Novmon/Y. D. Mosk

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REPRODUCED AT GOV'T EXPENSE #

Floase have this scrap segregated and identified by ingot and purchase order numbers. Feriodically during the duration of large contracts you will be instructed to return all scrap as reported by your monthly report (KAP-1345). We hope that this policy will alleviate your storage problem and make the final accounting of KAFI-furnished material easier.

Very truly yours,

L. E. Duran - Contract Analyst Materials Accountability

LTD:sel

bec: HF Eradt HS Lorr FC Hanny TW Kissinger CE Smith S Sturges

AUDIT OF NPD 44701 - MYC GEN PLATE ZIKC MOT'L FURNISHED BY KEPL SID C633 8/28/69 112 LBS HZC 1097 MAT'S RECD AT KAPL RR 116544 \$119/60 53.5 285 STRIPS 116544 2119/60 RR SCRAP 55.5 TOTAL 109-0 KBS 3-0 A85 FRO Loss GRAND TOTAL 112 00 KBJ LEl uran 4/4/60

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KA	P-8G (5-59)	REV.	KNO	PURCHASE ORDER		t)	ISD - LED
	PURCHA	SING	·	P.O. BOX 1072		SCHENECTAD	Y, NEW YORK #
	3-508	M. R. NO. 1207	COMM. NO. DATE ORDERED	VENDOR CODE SHC	W NPD NO. ON ALL I		URCHASE ORDER NO.
	TO M & C Attle	Nucle	ar Inc. Macs. R. Sager			ER LABORATORY	
[ BiLL IP	IG INSTRUCTION	VS (USE LETTE		IN DUPLICATE TO: FINANCE-ACCOUNT: WENTS F. O. 8. SHIPPING POINT ATTACH ORIGI	NAL TRANSPORTATION BILL.		
SHIP	AA KAI	ML Mess	enger	Attleboro, Mass.	DO-	E2 Certified DMS Reg. 1	under
REQU	STED ON SITE	DELIVERY D	TInet. 37	ONDERED FOR S. Bishop Ro	or 158 ^{BLDG.} C-1	R. M.	Tentor/jja
			to Gov't Prime Contract No. and conditions of attached	AEC W-31-109 ENG. 52	NAVY NOBS 56405	NAVY NO     858	85 72103
ITEM	QUANTITY	UNIT		DESCRIPTION		UNIT	DISCOUNT TOTAL
1 2 3	13 2 2	68. 68. 68.	Certification in	A the form prescribed	] below:		
ý			bave been furnis requirements of	, certify that the main for on KAPL Purchase ( shed in strict accordent the aforesaid order." Signed: Title: Date: Price of Items [1, 2]	Order NPD #		;525.00
			The following in 1. 2. The work req	uired by this order so rection of Mr. S. M. H (Continued Page 2)	ALL De Conc	in the second seco	

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100	./ ), REV.	KNO	PURCHASE OR		λ <b>Υ</b>		
PURCH	ASING	_	P.O. BOX 10	72	SCHENEC	TADY, NEW	YORK
/						PURCHASE	ORDER NO.
ORDER NO.	M.R. NO.	COMM. NO. DATE ORDERED	VENDOR CODE	SHOW NPD NO. OF AND CORREST		NIDD	44714-D
	C Ruc	Lear Inc.		SHIP TO: KNOLLS WAREHOUS	5 ATOMIC P	OWER LA	BORATOR
	Page 2	2		SCHENECTA	NDY, NEW YORK		
_							
BILLING INSTRUCTIO	ons iuse lette		IN DUPLICATE TO: FINANCE-ACCC AENTS F. O. B. SHIPPING POINT ATTACH		IN BILL.		
ship via		······································	F. O. 8.	TERMS	DO-E2 Certif DMS Re		·
REQUESTED ON SITE	DELIVERY D	ATE	ORDERED FOR		BLDG.	BUYER	· · · · · · · · · · · · · · · · · · ·
-		to Gov't Prime Contract No. and conditions of attached	AEC W-31-109 ENG. 52 Purchase Supplement	NAVY NOBS 50     AEC - 958     1	6405 NAV NAVY - 858 UN PRIC	DISCOUNT	NET TOTAL
		forms posses with respect the Seller a indexnify an against any to the Selle the Zirconiu the Seller o Seller. 4. With regard the Seller s A. During t identifi accorden "Instruc of Gover dated 5/ B. Upon com Manager four (4)	he course of the wa cation records and we with the document tions to Suppliers ment Controlled Co	zardous prope furnished by sibility and stric harmles expenses or occur or aris sion and cont g services fo supplied by wik, maintain provide report at entitled : Accountabi ritical Materia i, provide the htability, KA	rties. KAPL, shall s damage e vhile rol of r the KAPL, rts in lity isls" e PL		

1	PURCHASE ORDER	
DI REV.	KNOLLS ATOMIC POWER LABORATO	DRY
PURCHASING	P.O. BOX 1072	SCHENECTADY, NEW YORK
		PURCHASE ORDER NO.
DRDER NO. M. R. NO.		ON ALL PACKAGES
SHIP VIA REQUESTED ON SITE DELIVERY DA This order placed pursuant	ET Inc.       SHIP TO: KNOI WAREHC SCHENER         RHEAD ADDRESS):       RENDER INVOKES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE. ON PREPAID SHIPMENTS F. O. 8. SHIPPING POINT ATTACH ORIGINAL TRANSPORT.         F. O. 8.       F. O. 8.         ATE       ORDERED FOR         to Gov't Prime Contract No.       AEC W-31-109 ENG. 52       NAVY NOB	ATION BILL.  DO-E2 Certified under DMS Reg. 1  BLDG. BUYER  S 56405 NAVY NOBS 72103
Subject to general terms	and conditions of attached Purchase Supplement AEC-958	NAVY - 858
ITEM QUANTITY UNIT	DESCRIPTION	UNIT DISCOUNT NET PRICE TOTAL
	<ol> <li>Quantity of raw material received pounds and form)</li> <li>Quantity of finished material ship (in pounds and form)</li> <li>Quantity of scrap generated (in pound form)</li> <li>Quantity of unprocessed raw materia remaining (in pounds and form)</li> <li>Betailed losses in pounds</li> <li>Upon receipt of information requested by (B) above, KAFL will furnish Seller dispointstructions for the material remaining a Seller's plant. The Seller shall, upon r of disposition instructions furnished by burn and bury (chips, turnings, and fines normally be burned or buried) negotiate f purchase, or prepare and ship f.o.b. Soll plant all unprocessed material and scrap generated. All costs relative to disposi shall be at the expense of the Seller, an scrap thus disposed of shall be certified writing to KAPL.</li> </ol>	ped   ands   al.   (A) and   sition   t the   eccipt   KAPL   vill   or   cr's   tion   d all

		REV.		K. M	PURCHA	SE ORDER	ATORY			
	AIRCH	ASING				OVER LABOR		HENECTADY, NEW YOR		
	W ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERE	D VENDOR CODE	SHOW NPD	NO. ON ALL PACKAG	PURCHAS	E ORDER N	
L							CORRESPONDENCE	NPD	44714.	
		: Nucle Le 4	ear Inc.			WA	NOLLS ATOMI AREHOUSE BLDG. M-2 HENECTADY, NEW YOU		ABORA	
BILLIN	IG INSTRUCTION	NS (USE LETTE	ERHEAD ADDRES		CES IN DUPLICATE TO: FINAN HIPMENTS F. O. B. SHIPPING POI				<u> </u>	
SHIP V	/ <b>IA</b>	·			F. O. S.	TERMS		ertified under S Reg. 1		
REQUE	STED ON SITE	DELIVERY D	ATE		ORDERED FOR		BLDG.	BUYER		
	-	-		me Contract No ions of attach	•. AEC W-31-109 EI ed Purchase Supplemer		NOBS 56405	NAVY NOBS 7210:	3	
TEM	QUANTITY	UNIT			DESCRIPTI	ON		UNIT PRICE		
			CC: sb	ipping th	l conform to al maission regula e KAPL supplied gard to the ura	tions in preparent.	aring and			
				and sub KAPL as require the fol 1. Ref 2. Dev to 3. Iden 4. Iden	sequently retur product, the S d AEC Form 101. loving informat erence KAPL Pur bers. iates from spec waivers or insp ntify deviates. ntify extra qua erence EAFL Pro	ned by the Se ieller shall p This form s ion: chase Order a ification as p ection reports ntities.	ller to repare the ball include nd Item referenced			
			Β.	whose in 5% or with than 500 with the	prents to KAPL sotopic U235 co here the total O grams should a criticality 1 lity Manual A-Ca	nstituent is i uranium quanti be Bade in acc imits set fort	less than Ity is less cordance			

				PURCH	ASE ORDER					
, here	, REV.		KNOL	LS ATOMIC	POWER LABOR					
PURCH	ASING		······	P.O.	BOX 1072	SC	SCHENECTADY, NEW YORK			
								PURCHASE O	RDER NO.	
.DER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE		NO. ON ALL PAC		NPD	44714-D	
LLING INSTRUCTIC		RHEAD ADDRESS):		NTS F. O. 8. SHIPPING P F. O. 8.	SHIP TO: K W/ SC NCE-ACCOUNTS PAYAB OINT ATTACH ORIGINAL TRAN TERMS	SPORTATION BILL.	Certified DMS Reg.	under 1	ORATO	
QUESTED ON SITE	DELIVERY D	ATE		ORDERED FOR		BLDG.		BUYER		
			• Contract No. ns of attached	DESCRIPT	ent 🔲 AEC - 958	NOBS 56405		085 72103 DISCOUNT	NET	
		one Tre P. 7. Del KAP of two	on receipt (1) copy affic Cont: 0. Box 10 Livery Req L require	of your red rol, Knolls 72, Schenect uirsment; and it is required by	supplied mate eiving report Atomic Power L ady, New York. essential that this order be	to Supervis eboratory, delivery made vithin				

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				PURCHASE	ORDER				
	, ^{, .59)}	REV.	KNO	LLS ATOMIC POV	WER LABORATO	RY			
	PURCHA	ASING		P.O. BO)	( 1072	SCH	IENECTAL	DY, NEW	YORK
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	ORDER NO.	M. R. NO.	COMM. NO. DATE ORDERED	VENDOR CODE	SHOW NPD NO. C	N ALL PACK	-	PURCHASE OI	
					AND CORRE	SPONDENCE		NPD 44	714-D
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	30.					ADY, NEW Y	-		
	101			I					
		ANS HIKE LETTE	RHEAD ADDRESS): RENDER INVOICES #						
				•	TTACH ORIGINAL TRANSPORTATI	ON BILL.			
SHIP '	VIA			F. O. B.	TERMS		Certified		
EQUI	STED ON SITE	DELIVERY D		ORDERED FOR	l	BLDG.	MS Reg. 1	UYER	
			to Gov't Prime Contract No.	AEC W-31-109 ENG.		56405	NAVY NO	OBS 72103	
jang	ect to gen	eral terms	and conditions of attached	Purchase Supplement	AEC - 958	NAVY - 858	<u> </u>	- <del>1</del>	
M	QUANTITY	UNIT		DESCRIPTION			UNIT PRICE	DISCOUNT	NET TOTAL
			CON	IFIRMING ORDER IF CHECK	KED				
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			direction	s of the (Contr	acting Officer)	to			
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			<u></u>						



TELEPHONE 1-3800

Film: KAPL-123

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I STAR SPACE

November 6, 1959

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Enells Atomic Power Laboratory P. C. Box 1072 Schemetady, New York

Attention: Hr. R. M. Tenter

Part Laupet was at the Case State of the second

Subject;

Attached are the two documents required to complete our obligation under your purchase order NPD 44714:

- 1. Certification
- 2. Material report (final)

P. Q. XPD 44714-D

Since the material for this job was bend-carried to and from our plant by the KAFL cognizant engineer and was in our shop for only ous day, we received no shipping papers from KAFL, generated no receiving papers, and of course did not make out in-progress material reports.

Please call on us if there are any further questions or additional information is required.

Very truly yours,

A. B. Sager Project Administrator

RECEIVED

NEV 1 2 1959 F. C. HANNY

255/bs Exclosures

RAPL-123

## CELTIFICATION

## PURCHASE ORDER NO. MPD 44714-D

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I, Richard B. Sager, certify that the services called for on KAFL Furchase Order MPD 44714-9 have been furnished in strict accordance with the requirements of the aforesaid order.

Martin State Stat

:

Richard 3. Segar

Project Administrator

November 6, 1959

andra Antonio Antonio

KAPL-123

## TO: Menager, Materials Accountability, TAPL

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## FIRAL MATERIALS REPORT

# PULICHASE ORDER MPD 44714-D

 Quantity of raw material received
 17.54

 Quantity of finished meterial shipped
 17.54

 Quantity of scrap generated
 0

 Quantity of scrap generated
 0

 Quantity of unprocessed raw material
 0

2. 3. Sogar Project Administrator 1176/59

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# NPD 44770

KAI	P-6G (5-59	) REV <u>.</u>	KN	PURCHASE O		TWIK HE
	PURCH	ASING		P.O. BOX		SCHENECTADY, NEW YORK
	Att. Attı	leboro, a: M:.	HEAD ADDRESS): RENDER INVOICES	VENDOR CODE 13611 IN DUPLICATE TO: FINANCE-A WENTS F. O. B. SHIPPING POINT ATT	WAREHOU SCHENECT	SPONDENCE
SHIP V	Gay	's Expre	\$B	Attleboro, Mage	TERMS	DO-E2 Certified under DMS Reg. 1
REQUE	STED ON SIT	E DELIVERY DA	nst. #11	ORDERED FOR H. H. Winkler	E-1 Mezz.	BLDG. BUYER R. M. Tentor/35d
	-	-	to Gov't Prime Contract No. and conditions of attached	AEC W-31-109 ENG. 5 Purchase Supplement		NAVY - 858
ITEM	QUANTITY	UNIT		DESCRIPTION		UNIT DISCOUNT NET PRICE TOTAL
1 •	105	ea.	KAPL INCLEAR CO REQUIRED AT SOU with KAPL drawn KAPL Specificat 5, 1959 25 both	NFIRMING ORDER IF CHECKE RE QUALITY COMPR RCE. DG 9420141, Revis Icn KFM 3-44 Revis are exceeded by 1 I vill furnish 9 ¹	L INSPECTICH sion 0 Group 1 ision 4 dated 0 Instruction #1	Detober
5	5	copies	Certification i RPM 3-44 Revioi	n accordance vit) on ¹ 4.	a Paragraph 4.6	of Frice Included in Iten #1
3	2	ecpics	Certification 1 below.	n accordence with	Instruction #	13 Frice Included in Item 7
			Total Price of	Itens #1, #2 and	3 above	\$100,000.0
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KAP-6G (5-59) REV. PURCHASING	KN	IC ATONIC DO				•	
PURCHASING		LS ATOMIC PO	WER LABOR	ATOR -			
		P.O. BO	( 1072	S	CHENECTA	DY, NEW	
							RDER NO.
ORDER NO. M. R. NO.	COMM. NO. DATE ORDERED	VENDOR CODE	SHOW NPD	NO. ON ALL PA		PURCHASE C	
	<u> </u>		AND	CORRESPONDENC	E	NPD	44770-Y
Fage 2	leer Inc.	٦ ١	w	NOLLS ATO AREHOUSE BLDG. CHENECTADY, NEW	M-2	VER LAB	ORATOR
	RHEAD ADDRESS); RENDER INVOICES II ON PREPAID SHIPMI	ENTS F. O. B. SHIPPING POINT A	TTACH ORIGINAL TRAN	ISPORTATION BILL.			
ship via		F. O. B.	TERMS		2 Certified DMS Reg.		
REQUESTED ON SITE DELIVERY D	ATE	ORDERED FOR		BLDG.		BUYER	
TEM QUANTITY UNIT	The following :	fication KPM 3-	ell apply:	is hereby	PRICE	DISCOUNT	TOTAL

			KN	LS ATOMIC	POWER LAB	ORATOR			
PURCH	ASING			P. O.	BOX 1072		SCHENECT	ADY, NEW	YORK
	- <b>-</b>							PURCHASE O	RDER NO.
" ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE		NPD NO. ON ALL F IND CORRESPONDED		NPD	44770-
. TO <b>M 8</b>		ear Inc.		7	SHIP TO:	KNOLLS AT WAREHOUSE BLDG SCHENECTADY, NE	DMIC PO M-2 W YORK	WER LAB	ORATO
	Page 3			1					
Lling instruction	ONS (USE LETTE	RHEAD ADDRESS):		•	NCE-ACCOUNTS PA				
P VIA		<u> </u>		F. O. B.	TERMS	DO-	E2 Certifie DMS Reg		- <u></u>
QUESTED ON SIT	E DELIVERY D	ATE		ORDERED FOR		BLDG.		BUYER	<u>.</u>
-		to Gov't Prime and condition	•	AEC W-31-109 Purchase Supplem		AVY NOBS 56405 B NAVY - 8		NOBS 72103	
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_	ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE		NO. ON ALL PACK		PURCHASE	ORDER NO.
	ORDER NO.	m. n. mv.		DATE ORDERED			CORRESPONDENCE		NPD	44770-3
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	M & C	. Nucle	ear, Inc.		I		NOLLS ATOM		VER LA	BORATO
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UE	STED ON SITE	DELIVERY D	ATE		ORDERED FOR	·······	BLDG.		BUYER	<u> </u>
			to Gov't Prime	Contract No.				7		
				-	AEC W-31-109 ENG. Purchase Supplement	52 NAVY	NOBS 56405		085 72103	
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TO       M & C Buclear, Inc.         Page 7       SHIP TO         Number Destructions and Letters and Conditions and Letters Destructions and Letters Destructions and Letters Destruction and Conditions of attached Purchase Supplement   ACC-958   NAVY NOBS 56405   NAVY NOBS 72103           Inter destructions and conditions of attached Purchase Supplement   ACC-958   NAVY NOBS 56405   NAVY NOBS 72103           Subject to general terms and conditions of attached Purchase Supplement   ACC-958   NAVY NOBS 56405   NAVY NOBS 72103           Inter destructions and conditions of attached Purchase Supplement   ACC-958   NAVY NOBS 56405   NAVY NOBS 72103           Inter destructions and conditions of attached Purchase Supplement   ACC-958   NAVY NOBS 56405   NAVY NOBS 72103           Inter destructions and conditions of attached Purchase Supplement   ACC-958   NAVY NOBS 72103           Inter destructions and conditions of attached Purchase Supplement   ACC-958   NAVY NOBS 72103           Inter destructions and conditions of attached Purchase Supplement   ACC-958   NAVY NOBS 72103           Inter destructions and conditions of attached Purchase Supplement   ACC-958   NAVY NOBS 72103           Inter destructions and conditions of attached Purchase Supplement   ACC-958   NAVY NOBS 72103           Inter destructions and conditions of attached Purchase Supplement   ACC-958   NAVY NOB 72103           Inter destructions   Inter destructions   Inter destructions   Inter destructions   Inter destructions   Inter destruction   Inter destruction   Inter destruction   Inter destructions   Inter destructions   Inter destruction   Inter destruction   Inter	KAP-6G (5-59)	REV.									
ODDER NO       M. L. HO.       COMM. NO       DATE CADERED       WHON NO. ON ALL PACKAGES         10       M. & C. BLICLEGER, Inc.       SHOP TO KNOLLS ATOMIC POWER LABORATIC         M & C. BLICLEGER, Inc.       WARHOUSE RUDG. M.:       SHOP TO KNOLLS ATOMIC POWER LABORATIC         Page 7       SHOP TO KNOLLS ATOMIC POWER LABORATIC       WARHOUSE RUDG. M.:       SHOP TO KNOLLS ATOMIC POWER LABORATIC         SHUT NO KITCHARE       Page 7       SCHENECTADY, NEW YORK       SCHENECTADY, NEW YORK         SHUT NO KITCHARE       MARK SCHENERT F. O. SHARES GARANTICAL STRUKT SCHENERL       ON THERE SHOWERS IN UNITAGE SCHENER CONTAINED BILL         SHUT NO KITCHARE       SUBJECT TO General terms and coordinos of attached Purchase Supplement       AEC *958       MAYY NOES 72103         TAL GUARTY       UNIT       DESCRIPTION       MAYY NOES 52405       NAYY NOES 72103         TAL GUARTY       UNIT       DESCRIPTION       MAYY NOES 72103       Intermediate atoms         TAL GUARTY       UNIT       DESCRIPTION       MAYY NOES 72103       Intermediate atoms         TAL GUARTY       UNIT       DESCRIPTION       MAYY NOES 72103       Intermediate atoms         TAL GUARTY       UNIT       DESCRIPTION       MAYY NOES 72103       Intermediate atoms       Intermediate atoms         TAL GUARTY       UNIT       DESCRIPTION <th>PURCHA</th> <th>SING</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>HENECTA</th> <th colspan="3">NECTADY, NEW YORK</th>	PURCHA	SING						HENECTA	NECTADY, NEW YORK		
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SHIP TO:       KNOLLS ATOMIC POWER LABORATC WAREHOUSE BUGG. M-2 SCHENCTIONS BUS LITTENEDA ADDRESS:         Fage 7	ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE					44770-1	
ON PLEND SHIPPING FORT ATTACH ORIGINAL TRANSORTATION BLL  Ser VM  I.O.I.  I.O.I.  ITENS DO.E.2 Certified under DMS Reg. 1  BLOG. BUYER  EXEMUSTED ON STE DELYNEY DATE ORDER FOR BLDG. BUYER  This order placed pursuant to Gov'l Prime Centract Me. AEC W31:09 ENC. 52 NAVY NOBS 56405 NAVY NOBS 57203 Subject to general terms and conditions of attached Purchase Supplement AEC-958 NAVY NOBS 56405 NAVY NOBS 57203 Subject to general terms and conditions of attached Purchase Supplement AEC-958 NAVY NOBS 56405 NAVY NOBS 57203  LINT DESCRIPTION UNIT DESCRIPTION UNIT CONFIRMING ORDER IF CHECKED  I. Q. (Constituted) (f) Applicable standards are: KE 21715, Rev. 2 KS 26072 KS 26073 KS 26013 KS 26014 KS 26015 KS 26015 KS 26013 KS 26015 KS 26013 KS 26015 KS 26014 KS 26015 KS 26015 KS 26015 KS 26015 KS 26014 KS 26015 KS 26	M &	Page 7	·			WAR SCHE	HOUSE BLDG. M NECTADY, NEW Y	-2	VER LAB	ORATOI	
DMS Reg. 1       REQUISITE ON SITE     DELIVERY DATE     DELIVERY DATE </td <td>, ·</td> <td></td> <td></td> <td></td> <td>IPMENTS F. O. B. SHIPPING POINT</td> <td>ATTACH ORIGINAL TRANSPO</td> <td>DRTATION BILL</td> <td>Cartified</td> <td>under</td> <td></td>	, ·				IPMENTS F. O. B. SHIPPING POINT	ATTACH ORIGINAL TRANSPO	DRTATION BILL	Cartified	under		
This order placed pursuant to Gov'l Prime Contract No. AEC W-31-109 ENG. 52 NAVY NOBS 56405 NAVY NOBS 72103 Subject to general terms and conditions of attached Purchase Supplement AEC -958 NAVY -858 tw QUANTITY UNIT DESCRIPTION UNIT DESCRIPTION UNIT OTAL CONFIRMING ORDER IF CHECKED 1. Q. (Continued) (f) Applicable standards are: ES 21715, Rev. 2 KS 26071 KS 26073 KS 26013 KS 26013 KS 26014 KS 26015 KS 27519 (to be mutually agreed upon after completion) (g) (g) (g) (g) (g) (g) (g)							D	MS Reg.	1		
Subject to general terms and conditions of attached Purchase Supplement       AEC-958       NAVY-858         LM       DESCRIPTION       UNIT       DISCOUNT       NET         CONFIRMING ORDER IF CHECKED       I. Q. (Continued)       II. Q. (Continued)       II. Q. (Continued)       II. Q. (Continued)       II. Second       III. Second       IIII. Second       IIII. Second       IIII. Second       IIII. Second       IIII. Second       IIII. Second <td< td=""><td>EQUESTED ON SITE</td><td>DELIVERY D</td><td>ATE</td><td></td><td>ORDERED FOR</td><td></td><td>BLDG.</td><td></td><td>BUYER</td><td></td></td<>	EQUESTED ON SITE	DELIVERY D	ATE		ORDERED FOR		BLDG.		BUYER		
Im     DESCRIPTION     PRICE     DISCOUNT     TOTAL       CONFIRMING ORDER IF CHECKED				-			[_]		OBS 72103		
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s order placed	•	-		•	ليسمعا	V-31-109				OBS 56405			OBS 72103	
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		-	b. c. d. KAPI ( <u>683</u> by t abov expe	(Radio Delete obtain Change Change Delete Sectio , vill ( 1bs.) he Sel c, it nse at riel u	furnish lar to the rates	). n 4.1 c. n 4.1 ns 4.1 supp te of the S	3 p. 4 -	rocedu restr to and 94 the wo by KA .00 pe	re fo ictio incl 20141 PL at r pou 1 be	r n to rea uding . Part 2	E			
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/	ORDER NO.	M, R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE		NO. ON ALL PACK	AGES	NPD	44770		
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	1	Page 9				SCH	IENECTADY, NEW YO	ORK				
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LLING	g instruction	NS (USE LETTE	RHEAD ADDRESS):		N DUPLICATE TO: FINANCE- ENTS F. O. B. SHIPPING POINT A							
IP VI	ia.				F. O. S.	TERMS		Certified AS Reg.				
QUES	STED ON SITE	DELIVERY DA	ATE		ORDERED FOR		BLDG.		BUYER			
uis 4	order place	d pursuant	to Gov't Prime	Contract No.	AEC W-31-109 ENG.	52 T NAVY	NOBS 56405		OBS 72103	<u> </u>		
		-		•	Purchase Supplement	AEC - 958	NAVY - 858		CUJ 72103			
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			A.		aragraph 6.1 an	vi substitut	e in lieu					
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				s. Kapi Kpr	Specification	DIG Specifi 7 dated July	cetion					
				KPR	Specification 3-57, Revision tled	DIG Specifi 7 dated July	cation y 16, 1959					
				NPX enti	3-57, Revision	DIG Specifi 7 dated July	cation y 16, 1959					
				KPR	3-57, Revision	DIG Specifi 7 dated July	cation y 16, 1959					
			5.	NPX enti	3-57, Revision	DIG Specifi 7 dated July	cation y 16, 1959	ł				
			5.	NPX enti	3-57, Revision	DIG Specifi 7 dated July	cation y 16, 1959					
			it	b. Will be a	3-57, Revision tled	7 dated Jul; at Seller'	y 16, 1959					
			it st	b.	3-57, Revision tled upplied by KAPI of \$4.00 per gr	7 dated July at Seller's am. All mas	s expense terial used					
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KA	P-6G [°] (5-59)	REV.	KNC	PURCHASE					
	PURCHA	ASING	KN(	P.O. BOX			HENECTA	DY, NEW	YORK *
L	P ORDER NO. TO	M.R. NO.	COMM. NO. DATE ORDERED	VENDOR CODE		NO, ON ALL PACK CORRESPONDENCE		purchase o	RDER NO. 44
}	M &	Page 1	RHEAD ADDRESS): RENDER INVOICES	IN DUPLICATE TO: FINANCE-A LENTS F. O. B. SHIPPING POINT AT	WA SCH ACCOUNTS PAYABL		2	VER LAB	ORATOR
SHIP	VIA			F. O. 8.	TERMS	DO-E2	Certified MS Reg.		
REQU	ESTED ON SITE	DELIVERY D	ATE	ORDERED FOR	<b>I</b>	BLDG.		BUYER	
	-	-	to Gov't Prime Contract No. and conditions of attached	AEC W-31-109 ENG. 5 Purchase Supplement	52 NAVY 1 AEC - 958	NOBS 56405		OBS 72103	
ITEM	QUANTITY	UNIT		DESCRIPTION			UNIT PRICE	DISCOUNT	NET TOTAL
			iebrication additional to complete supplied by of \$19.00 p Seller shal NAPL suppli 7. All materia additional property of 8.	furnish 1890 pour a or spacers yet Zircaloy is the work requi y KAPL at Seller per pound. All a led material. al supplied by K material request the government	required by red above, 's expense material us by the Sell APL, includ ted, will r	the Seller it will be at the rate ed by the er as being			

PURCHASING • ORDER NO. M. R. NO. COMM. NO. - TO M & C Mucloar, Inc. Page 11 	DATE ORDERED VENDOR CODE	SHOW NPD NAND C SHIP TO: KN WAR SCH		NPD	ORDER NO. 44770-Y
- TO M & C Nucloar, Inc. Page 11 ILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS)	RENDER INVOICES IN DUPLICATE TO: FINAN	and c ship to: <b>KN</b> war sch	IO. ON ALL PACKAGES ORRESPONDENCE OLLS ATOMIC P EHOUSE BLDG. M-2	PURCHASE	ORDER NO. 44770-Y
- TO M & C Nucloar, Inc. Page 11 ILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS)	RENDER INVOICES IN DUPLICATE TO: FINAN	and c ship to: <b>KN</b> war sch	ORRESPONDENCE OLLS ATOMIC P EHOUSE BLDG. M-2	NPD	44770-Y
M & C Nuclear, Inc. Page 11	RENDER INVOICES IN DUPLICATE TO: FINAN	WAS SCH	EHOUSE BLDG. M-2	OWER LA	BORATOR
	•	ICE ACCOUNTS DAVABLE			
	F. O. 8.		ORTATION BILL.	<u> </u>	
			DO-E2 Certif		
QUESTED ON SITE DELIVERY DATE	ORDERED FOR		BLDG.	BUYER	·
nis order placed pursuant to Gov't Prime ubject to general terms and condition			NAVY - 858	Y NOBS 72103	
M QUANTITY UNIT	DESCRIPTI	ON	UN	DISCOUN	T TOTAL
9. K/	PL drawing 942Cl41, Re mended as follows for t above.	evision 0 is be the production	reby of Item		

KAP-6G ⁰ (5-59) REV.	,	RCHASE ORDER MIC POWER LABORA	ATOR'	
PURCHASING		P.O. BOX 1072		ADY, NEW YORK
JP ORDER NO. M. R. NO.	COMM. NO. DATE ORDERED VENDOR CODE		NO. ON ALL PACKAGES	PURCHASE ORDER NO. NPD 44770-X
TO M&C Nucle Page 12	 HEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO:	WAR SCH J FINANCE-ACCOUNTS PAYABLI		WER LABORATOR
SHIP VIA	F. O. 8.	PPING POINT ATTACH ORIGINAL TRANSP TERMS	DO-E2 Certified DMS Reg.	
REQUESTED ON SITE DELIVERY DAT	TE ORDERED FOR		BLDG.	BUYER
This order placed pursuant to Subject to general terms a ITEM QUANTITY UNIT	and conditions of attached Purchase Sup DESC: CONFIRMING ORDE 10. (Continued) B. Zirceloy required by January 15, 2 Zirceloy stor duction strips to duction strips to C. Boron Carbide re- requirements shi 15, 1960. 11. Delivery Requirement KAPL requires and it of the work required as follows: A. Process outlines specifications of approval within after receipt of by the Seller pro-	AEC-958 RIPTION ER IF CHECKED uested for preprodu irements shall be i 1960. Seller shall ck material for the which <u>KAPL will rep</u> equired for the pro- ell be furnished by ts t is essential that d by Items #1 thru	NAVY-858 UNIT PRICE PRICE PRICE PRICE PRICE PRICE PRICE PRICE PRICE PRICE PRICE PRICE PRICE PRICE PRICE PRICE PRICE	DISCOUNT NET TOTAL

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KAP-66 (5-59)	BEV		PURCHAS				•			
		KN	S ATOMIC PC							
PURCHA	ASING		P.O. BC	DX 1072	SCH	SCHENECTADY, NEW YORK				
						P	URCHASE	ORDER NO.		
ORDER NO.	M. R. NO.	COMM. NO. DATE ORDERE	D VENDOR CODE		O. ON ALL PACK DRRESPONDENCE		NPD	44770- <b>X</b>		
	age 13	RHEAD ADDRESS): RENDER INVOK	LES IN DUPLICATE TO: FINANCI HIPMENTS F. O. B. SHIPPING POINT	-ACCOUNTS PAYABLE		IC POW	'ER LA	BORATO		
SHIP VIA			F. O. <b>B</b> .	TERMS		Certified AS Reg. 1	under			
REQUESTED ON SITE	DELIVERY D	ATE	ORDERED FOR		BLDG.		JYER			
		requir KAPL s perfor KAPL's run sh C. Item j D. The sb spprov	) sults of the pre- ed by KPM 3-44 s pproval January med by the Selle approval of Sel all be at Seller l shall be deliv Cve schedule is al of the proces a requirements f sion by Seller.	re to be subm 20, 1960. And r prior to re- ler's preprodu 's risk. ared by March based on KAPL s outline and	itted for y work ceipt of action 10, 1960. providing prepro-					

KAP-6G ⁴ (5-59)	REV.	KI	PURCHAS		ΑΤΟΡΥ		•	
PURCH	ASING	····		DX 1072		IENECTA	DY, NEW	YORK
							PURCHASE C	RDER NO.
P ORDER NO.	M. R. NO.	COMM. NO. DATE ORDER	RED VENDOR CODE		NO. ON ALL PACK CORRESPONDENCE		NPD	44770-Y
	& C Nucl Page 14	ear, Inc.		WA	NOLLS ATON REHOUSE BLDG. M- HENECTADY, NEW Y	2	VER LAB	ORATOF
BILLING INSTRUCTIO	INS (USE LETTERHE		NCES IN DUPLICATE TO: FINANCI SHIPMENTS F. O. B. SHIPPING POINT					
SHIP VIA			F. O. B.	TERMS	DO-E2	Certified MS Reg.		
REQUESTED ON SITE	DELIVERY DATE		ORDERED FOR		BLDG.		BUYER	
TEM QUANTITY		13. "Two spread present "I, and/or Order strict	r services called MPD / bave secondance with foresaid order."	CKED	eterial Purchase shed in	UNIT PRICE	DISCOUNT	

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### GOVERNMENT-FURNISHED MATERIAL



Article 37 under Purchase Order Supplement AEC 958.



Article 41 under Purchase Order Supplement NAVY 858.



Article 32 under Purchase Order Supplement 155.

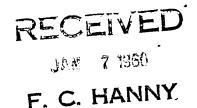
- A. Seller recognizes that Zirconium and its alloys in various forms possesses potentially hazardous properties. With respect to the Zirconium furnished by KAPL, Seller assumes full responsibility and shall indemnify and hold General Electric harmiess against any losses, liability, expenses or damage to Seller or others which occur or arise while the Zirconium is in the possession and control of Seller or anyone performing services for Seller.
- B. With regard to the Zirconium supplied by KAPL, Seller shall:
  - L During the course of the work, maintain identification records and provide reports in accordance with the document entitled "Instructions to Suppliers: Accountability of Government Restricted Materials" dated 9/1/59.
    - Seller shall burn and bury at his own expense, all unusable zirconium chips, fines, etc., smaller than 20 mesh
  - 0.025 inches.
  - 3. Upon completion of the work, provide the Manager of Materials Accountability, KAPL, four (4) copies of a material report containing the following information:
    - (a) Quantity of raw material received (in pounds and form)
    - (b) Quantity of finished material shipped (in pounds and form)
    - (c) Quantity of scrap generated (in pounds and form)
    - (d) Quantity of unprocessed raw material remaining (in pounds and form)
    - (e) Detailed losses in pounds.
    - (f) Quantity of unusable zirconium forms such aschips, fines, turnings, etc., which were disposed of by vendor through burning and burial in accordance with Instruction No. 1 and 2 of this paragraph.
  - 4. Upon receipt of information requested by 1 and 3 above, KAPL and/or AEC will furnish Seller disposition instructions for the material remaining at the Seller's plant. The Seller shall, upon receipt of disposition instructions furnished by KAPL, negotiate for purchase, hold for public sale, or prepare and ship f.o.b. Seller's plant all unprocessed material and scrap generated. All costs relative to disposition shall be at the expense of the Seller, and all scrap thus disposed of shall be certified in writing to KAPL.
  - 5. Seller shall conform to all applicable Interstate Commerce Commission regulations in preparing and shipping KAPL supplied material.
- C. Seller shall ship all Zirconium under the following classification:

METAL, NOI or METAL ALLOY, NOI (ITEM 69015-A Sup. 23NMFC No. A 4)

The released value shall be entered on Shipping Order or Bill of Lading in the following form:

- "The agreed or declared value of the property is hereby specifically stated by the shipper not to exceed \$.40 per pound." D. All unused Zirconium, either partially processed, rejected, scrap or residues will be returned as directed by General Electric and/or AEC. No payment will be allowed to Seller for the Zirconium so returned except for necessary shipment costs.
- E. Seller shall mail one (1) copy of his Receiving Report at the time of receipt of KAPL-furnished material to:

Supervisor, Material Control Building M2 Knolls Atomic Power Laboratory Schenectady, New York



## APPENDIX 1 TO NPD 44770-Y

Modifications to Purchase Order Supplement No. AEC-958 are as follows:

- 1. Under Paragraph B of Article XV (Inspection) delete the words "in place" as they appear between the words "corrected" and "as" in the sixth line thereof.
- 2. Amend Article XV entitled "Inspection" subparagraph A by adding the following:

"For the purpose of this order final acceptance shall be made by General Electric at Seller's plant."

- 3. Under Paragraph E of Article XV (Inspection) insert the word "express" between the words "any" and "warranty" as they appear in the last line thereof.
- 4. Delete Paragraph A of Article XVI (Warranty) and substitute in lieu thereof the following:

"A - The guarantee expressed in this Article XVI constitutes the sole guarantee made by Seller with respect to the work and items called for or supplied under this order."

- 5. Amend Article XVI entitled "Warranty" subparagraph B by deleting "and decontamination" from line eight.
- 6. Under Paragraph D of Article XXII (Default) delete the words "tools, dies, jigs and fixtures" as they appear between the words "parts" end "Plans" in the sixth line thereof.
- 7. Delete Article XXVI (Taxes) in its entirety and substitute in lieu thereof the article specified in Attachment #1 which is made a part hereof by this reference thereto.

## ATTACHMENT #1

REPRODUCED AT GOVT EXPENSE #

## Purchase Order NPD-44779-I

## "XXVI - Taxes

A. As used throughout this article, the term "tax inclusive date" means the date of <u>negotiated</u> contracts and the <u>date set for the opening of bids for con-</u> <u>tracts entered into through formal advertising</u>. As to additional supplies or services procured by modification to this contract, the term "tax inclusive date" means the date of such modification.

B. Except as may be otherwise provided in this contract, the contract price includes all Federal, State, and local taxes and duties in effect and applicable to this contract on the tax inclusive date, except taxes (other than Federal transportation taxes) from which General Electric, the Government, the Seller, or the transactions or property covered by this contract are then exempt. Unless specifically excluded, duties are included in the contract price; and, if freight is included in the contract price, Federal transportation taxes are likewise included.

C. (1) If the Seller is required to pay or bear the burden (i) of any tax or duty, which either was not to be included in the contract price pursuant to the requirements of paragraph B or was specifically excluded from the contract price by a provision of this contract; or (ii) of an increase in rate of any tax or duty, whether or not such tax or duty was excluded from the contract price, or of any interest or penalty thereon, the contract price shall be correspondingly increased: Provided, that the Seller warrants in writing that no amount for such tax, duty, or rate increase was included in the contract price as a contingency reserve or otherwise: And provided further, That liability for such tax, duty, rate increase, interest, or penalty was not incurred through the fault or negligence of the Seller or its failure to follow instructions of General Electric.

(2) If the Seller is not required to pay or bear the burden, or obtains a refund or drawback, in whole or in part, of any tax, duty, interest, or penalty which (i) was to be included in the contract price pursuant to the requirements of paragraph B, (ii) was included in the contract price, or (iii) was the basis of an increase in the contract price, the contract price shall be correspondingly decreased or the amount of such relief, refund, or drawback shall be paid to General Electric, as directed by General Electric. The contract price also shall be correspondingly decreased if the Seller, through its fault or negligence or its failure to follow instructions of General Electric, is required to pay or bear the burden, or does not obtain a refund or drawback of any such tax, duty, interest, or penalty. Interest paid or credited to the Seller incident to a refund of taxes shall insure to the benefit of General Electric to the extent that such interest was earned after the Seller was paid or reimbursed by General Electric for such taxes.

-1-

Attachment #1

NPD-

(3) Invoices or vouchers covering any adjustment of the contract price pursuant to the paragraph C shall set forth the amount thereof as a separate item and shall identify the particular tax involved.

(4) Nothing in this paragraph C shall be applicable to social security taxes; net income taxes; excess profit taxes; capital stock taxes; Federal transportation taxes, except changes in the rate thereof, including repeal, pertaining to shipments from the Seller to General Electric; unemployment compensation taxes; or any State and local taxes, except those levied on or measured by the contract or sales price of the services or completed supplies furnished under this contract, including gross income taxes, gross receipts taxes, sales and use taxes, excise taxes, or franchise or occupation taxes measured by sales or receipts from sales.

(5) No adjustment of less then \$100.00 shall be made in the contract price pursuant to this paragraph.

D. Unless there does not exist any reasonable basis to sustain an exemption, General Electric agrees upon request of the Seller, without further liability except as otherwise provided in this contract, to furnish evidence appropriate to establish exemption from (i) any Federal tax, which the Seller warrants in writing was excluded from the contract price, or (ii) any State or local tax: Provided, that evidence appropriate to establish exemption from duties will be furnished, and Government bills of lading will be issued, only at the discretion of General Electric. In addition, General Electric may furnish evidence appropriate to establish exemption from any tax that may, pursuant to this clause, give rise to either an increase or decrease in the contract price.

E. (1) The Seller shall promptly notify General Electric of all matters pertaining to Federal, State, and local taxes and duties that reasonably may result in either an increase or decrease in the contract price.

(2) Whenever an increase or decrease in the contract price may be required under this clause, the Seller shall take action as directed by General Electric, and the contract price shall be equitably adjusted to cover the costs of such action, including any interest, penalty, and reasonable attorney's fees.

F. For the purpose of this contract, under this Article 26, personal property which is acquired by the Seller or furnished by General Electric, 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 Seller's 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."

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			a) b) 17. KAF Zir req is by sup of to of to oth to cer All othe as amend	Item 4 o Item 5 s days aft (Item 4) PL will su celloy () puested by insuffici this ordco plied by \$19.00 pe purchase her source Military tification er Terms and led to dat	thall be deliv for receipt of from KAPL. pply <u>20 pound</u> rodIf the the Seller a ent to comple r, additional KAPL at Seller additional Zi s provided the Specification m is approved	ered four (4 two (2) ext amount of 21 and furnished te the work i Zircalay can r's expense ( lar reserves rcalay from ) c material in MIL-Z-19859 by KAPL price of the origin in force a	) calendar rusions limeter realoy by KAPL required h be at the rate the right KAPL or a certified and the br to use.				

		<i>t.</i>				ASE ORDER				
	A	ASING				POWER LAB BOX 1072	UKATUR	SCHENECTA	DY, NE	VYORK =
									PURCHASE	ORDER NO.
$\sim$	ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE		NPD NO. ON AND CORRESPO	ALL PACKAGES	NPD	44770-Y 5
[	Pa	30e 3	RHEAD ADDRESS):		•	ANCE-ACCOUNTS P	YABLE.	ATOMIC PO BLDG. M-2 DY, NEW YORK		
SHIP	VIA		<del></del>	ON PREPAID SHIPM	F. O. B.	POINT ATTACH ORIGINAL	TRANSPORTATION	DO-E2 Certified DMS Reg.		
REQUE	ESTED ON SITE	DELIVERY D	ATE		ORDERED FOR			BLDG.	BUYER	
Subj Item		UNIT	Purchase Original Change t	CON e Grder Pr Amount o y Amoundme by Amoundme	nt #1 ment #2	AEC - 95	,000.00 -0- ,500.00	AVY - 858 UNIT PRICE	DISCOU	NET TOTAL

KAP+6G (5-59)	REV.		PURCHASE						
PURCHASING			LS ATOMIC POV P.O. BOX		-	_)' SCHENECTADY, NEW YORK			
Attlei Attn:	OORO, Mr.	V. Paynton ERHEAD ADDRESS): RENDER INVOKES I ON PREPAID SHIPM	VENDOR CODE 3011 N DUPLICATE TO: FINANCE-A ENTS F. O. B. SHIPPING POINT ATT F. O. B. ORDERED FOR	AND ( SHIP TO: <b>KN</b> WA SCH CCOUNTS PAYABL	REHOUSE BLDG IENECTADY, NE ¹ E. PORTATION BILL.	ACKAGES ICE OMIC POW M-2 W YORK E2 Certified DMS Reg. 1	Arien /ER LAB under	44770-Y too	
	Sec :	Inst. 22 Delow	AEC W-31-109 ENG. 5	`	Mezz.	R.		tor/jjd	
		and conditions of attached	و لسا	AEC - 958	NOBS 56405	158	JBS / 2103		
ITEM QUANTITY	UNIT		DESCRIPTION			UNIT PRICE	DISCOUNT	NET TOTAL	
		January 5, 1900 further amended Delete the firs substitute in 1 6. KAPL will 3 1/2" diameter Part 1 Zircaloy bar Delete Instruct thereof the fol "N. Paragraph photometer test on an acceptanc of the procedur	t sentence of In ieu thereof the furnish 1,788 pc bar suitable fo and 185 pounds (Ingot identity ion "1.N. and su	late, is he istruction a following: punds of 71: or use on the of 1 1/2 of MZC 1111) ubstitute in fill perform ding and he asis. The re:	reby 6 end rcaloy his order filamoter ." h licu a x-ray mogeneity		CE C. H	VED	

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			PURCHASE ORDER	
		J REV.	KN S ATOMIC POWER LAB	BORATOR
	<u>_</u> /Cł	HASING	P.O. BOX 1072	SCHENECTADY, NEW YORK
				PURCHASE ORDER NO.
$\smile$	OF ORDER NO.	M.R. NO.		NPD NO. ON ALL PACKAGES NDD HURDON T
1				Amendmont .
́Г	_ TO 	- Nucle	ar Inc. SHIP TO.	KNOLLS ATOMIC POWER LABORATORY WAREHOUSE BLDG. M-2 SCHENECTADY, NEW YORK
	-1 0. (			WAREHOUSE BLDG. M-2
	F	Pase 2		
L				
<b>B</b> ILL	ING INSTRUCTIO	ONS (USE LETT	erhead address): render invoices in duplicate to: FINANCE-ACCOUNTS P. On prepaid shipments f. o. b. shipping point attach original	
SHIP	VIA		F. O. B. TERMS	DO-E2 Certified under DMS Reg. 1
REQU	IESTED ON SITE	DELIVERY D	ATE ORDERED FOR	BLDG. BUYER
<b>T</b> 1:-			to Gov't Prime Contract No. AFC W-31-109 ENG. 52	
	-	•	and conditions of attached Purchase Supplement AEC-95	NAVY NOBS 56405    NAVY NOBS 72103    58    NAVY - 858
	1	1	DESCRIPTION	
ITEM	QUANTITY	UNIT		PRICE TOTAL
			(a) KAPL vill x-ray photometer all de	puble length
			(0) KAPL will x-ray photometer 10 of strips fabricated to final length	
$\checkmark$			section."	
-			Additional Price - \$3,000	
			Revised Cost of Item 1 - \$103,000	
			ADD THE FOLLOWING ITEMS:	
6	)1	e <b>8</b> .	Cut Chemical certification samples fro	DO THE FAPI
		ļ	supplied 3 1/2" diameter Zircaloy 🌰 b	er stock.
			Seller chall ship samples to KAPL for Analysis.	Chemical
			Price - \$164	
7			Additional work required to use KAPL a	
			Zircaloy plate stock	
			for Part 1 of drewing 942C141 due to t	he change
			in length. Price - \$350	
			· · · · · · · · · · · · · · · · · · ·	
			(Continued Page 3)	
	. <u></u>			

EXTRA COPY

				1/2.1		ASE ORDER POWER LABO				
	∡ĆH	ASING	·	K'N		BOX 1072		CHENECTA	DY, NEW	/ YORK
									PURCHASE	ORDER NO.
	OF ORDER NO.	M.R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE		d no. on all pa d correspondence		NPD	44770-1
Г	TO M&C Page		ar, Inc.		٦	١	(NOLLS ATC WAREHOUSE BLDG. SCHENECTADY, NEW	M-2	VER LA	BORATC
<u>میں</u>	NG INSTRUCTIO	NS (USE LETTI	RHEAD ADDRESS):			NCE-ACCOUNTS PAYA				
SHUP	VIA		······································		F. Q. B.	TERMS		2 Certified		
REQU	ESTED ON SITE	DELIVERY D	ATE		ORDERED FOR	<b>_I</b>	BLDG.	DMS Reg.	BUYER	<u> </u>
			to Gov't Prime and condition	•	AEC W-31-109 Purchase Suppleme		YY NOBS 56405	8	OBS 72103	
ITEM	QUANTITY	UNIT			DESCRIPT	10N		UNIT PRICE	DISCOUNT	TOTAL
9	13	68.	for 94 Price	20141, Per	firming order if t 1.					
-	્સ	e <b>a.</b>	1, 9, 3	October 5, 18, 19 and Price - \$1	20.	ended by Inst	ructions			
C	10	er.	Unit Pr	<b>ric</b> e - \$22	4, Total Pr:	Lce - \$2,240				
				(Ca	ontinued Pa	3e 4)				

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		h	REV.		K N S	PURCH			TOP			
		,ACH/	ASING				BOX 10			CHENECTA	DY, NEW	YORK
	/											NSE
	SHOP	ORDER NO.	M.R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE			O. ON ALL PAG ORRESPONDENCE		PURCHASE C	+770-15
- -		то <u>М&amp;</u> С Рада		ar Inc.			S	WAR	OLLS ATO EHOUSE BLDG. A ENECTADY, NEW	ለ-2	VER LAB	ORATOR
	BILLIN	G INSTRUCTION	VS (USE LETTI			DUPLICATE TO: FINA						
	SHIP VI	A				F. O. B.		TERMS		Certified DMS Reg.		
-	REQUES	TED ON SITE	DELIVERY D	ATE		ORDERED FOR			BLDG.		BUYER	
- 11 - 11	Subje			to Gov't Prime and condition:	s of attached f	AEC W-31-109 Purchase Supplem DESCRIPT		NAVY N     AEC - 958	OBS 56405	<u> </u>	OBS 72103	NET TOTAL
				THE FO.	LLOWING I	24, Total P NSTRUCTIONS Ll destruct:	SHALL . ively to	APPLY:				

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	CH	ASING			P.O. BC	X 1072	SCHE	NECTADY, NEW YOL
								PURCHASE ORDER
	P ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE	SHOW NPD N	O. ON ALL PACKAC	345
•   SH						AND CO	DRRESPONDENCE	NPD+4770-Y
	10	<b></b>	<u></u>	_1				Adendente #3
	. C Rucl	lear Ind	c.		4	SHIP TO: KNO	OLLS ATOMIC	C POWER LABOR
							HOUSE BLDG. M-2	
	Page 5					SCHE	NECTADY, NEW YOR	CK
1	,							
MILIN	IG INSTRUCTIO	NS (USE LETTER			n duplicate to: FINANCE	-ACCOUNTS PAYABLE		
-			·		ENTS F. O. B. SHIPPING POINT			
SHIP \	//A				F. O. S.	TERMS		ertified under
								S Reg. 1
REQUE	ested on site	DELIVERY DA	TE		ORDERED FOR		BLDG.	BUYER
			Cault Dai-	- Contract No				
				• Contract No.	AEC W-31-109 ENC	. 52 NAVY N		NAVY NOBS 72103
Supl	ect to gene	eral terms	and conditio	ns of affached	Purchase Supplement		NAVY - 858	
ITEM	QUANTITY	UNIT			DESCRIPTIO	N		PRICE DISCOUNT
	Quantin			CON	IFIRMING ORDER IF CHE			
		2	0. KAPI	will fur	nish 8.5 feet (	of 3 1/4"		
					aloy S (Appro:	k. 200 lbs.) e	nd	
			420	grams air		1 000152000		
					Item 9.	is required	by	
	<b>,</b>		Zirc	aloy II o	Boron Carbide	e is required	by	
			Zirc Item	aloy II of 9, it wil	Boron Carbide	e is required by KAPL at	•	
			Zirc Item Sell poun	aloy II of 9, it vil cr's cxper d and \$4.0	F Boron Carbide L be supplied noc at the rate 20 per gram res	e is required by KAPL at e of \$19.00 pe spectively.	•	
			Zirc Item Sell poun Sell	aloy II of 9, it vil cr's cxper d and \$4.0 er reserve	Item 9. Boron Carbide Li be supplied use at the rate 00 per gram res es the right to	e is required by KAPL at e of \$19.00 pe spectively.	•	
			Zirc Item Sell poun Sell addi	aloy II of 9, it vil er's expend d and \$4.0 er reserve tional Zin	Item 9. 2 F Boron Carbide L be supplied use at the rate OO per gram res es the right to realoy	e is required by KAPL at e of \$19.00 pe spectively.	•	
			Zirc Item Sell poun Sell addi from	aloy II of 9, it vil cr's cxper d and \$4.0 er reserve tional Zin KAPL or (	Item 9. F Boron Carbide L be supplied use at the rate OO per gram res es the right to realoy other sources p	e is required by KAPL at e of \$19.00 pe spectively. purchase provided the	•	
			Zirc Item Sell poun Sell addi from mate	aloy II of 9, it vil cr's expend d and \$4.0 er reserve tional Zin . KAPL or of rial is ca	Item 9. F Boron Carbide Li be supplied use at the rate OO per gram res es the right to realoy other sources pertified to Mil	e is required by KAPL at e of \$19.00 pe spectively. b purchase provided the itary	•	
			Zirc Item Sell poun Sell addi from mate Spec	aloy II on 9, it will or's expend d and \$4.0 er reserventional Zin KAPL or of rial is constitution	Item 9. r Boron Carbide L be supplied use at the rate O per gram res es the right to realoy other sources p ertified to Mil MIL-7-19859A a	e is required by KAPL at e of \$19.00 pe spectively. burchase provided the itary and the	•	
			Zirc Item Sell poun Sell addi from mate Spec	aloy II of 9, it vil er's expend d and \$4.0 er reserve tional Zin MAPL or ( rial is constitution ification	Item 9. F Boron Carbide Li be supplied use at the rate OO per gram res es the right to realoy other sources pertified to Mil	e is required by KAPL at e of \$19.00 pe spectively. burchase provided the itary and the	•	
			Zirc Item Sell poun Sell addi from mate Spec cert to u	aloy II of 9, it vil er's exper d and \$4.0 er reserve tional Zin MAPL or ( rial is co ification ification se.	Item 9. For Boron Carbide I be supplied use at the rate O per gram res es the right to realoy other sources p ertified to Mil MIL-Z-19859A at 1s approved by	e is required by KAPL at c of \$19.00 pe spectively. burchase brovided the itary and the KAPL prior	•	
		8	Zirc Item Sell poun Sell addi from mate Spec cert to u	aloy II of 9, it vil or's expend d and \$4.0 er reservent tional Zin MAPL or of rial is es ification ification se.	Item 9. F Boron Carbide Li be supplied use at the rate DO per gram res es the right to realoy other sources p ertified to Mil MIL-7,-19859A at is approved by mish 100 pounds	e is required by KAPL at c of \$19.00 pe spectively. burchase brovided the itary and the KAPL prior	•	
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		81	Zirc Item Sell poun Sell addi from mate Spec cert to u	aloy II of 9, it vil or's expend d and \$4.0 er reservent tional Zin MAPL or of rial is es ification ification se.	Item 9. Item 10. I	e is required by KAPL at c of \$19.00 pe spectively. burchase brovided the itary and the KAPL prior	•	
		8	Zirc Item Sell poun Sell addi from mate Spec cert to u	aloy II on 9, it will or's expend d and \$4.0 er reserventional Zin KAPL or of rial is can ification ification se. will furn 2" Zircalo	Item 9. T Boron Carbide I be supplied use at the rate to per gram res to the right to realoy other sources pertified to Mil MIL-719859A at is approved by mish 100 pounds bar;	e is required by KAPL at of \$19.00 pe spectively. browided the itary and the KAPL prior	•	
		8	Zirc Item Sell poun Sell addi from mate Spec cert to u	aloy II of 9, it vil er's exper d and \$4.0 er reserve tional Zin MAPL or ( rial is ce ification ification se. vill fur 2" Zircalo	Item 9. For Boron Carbide I be supplied use at the rate O per gram res es the right to realoy other sources p ertified to Mil MIL-719859A at is approved by mish 100 pounds by bar; Badaitional 24	e is required by KAPL at of \$19.00 pe spectively. Drovided the itary and the KAPL prior of 3 1/4" -		
		8	Zirc Item Sell poun Sell addi from mate Spec cert to u 1. KAPL 3 1/	aloy II of 9, it vil or's expend d and \$4.0 er reservent tional Zin MAPL or of rial is can ification se. will fur 2" Zircalo	Item 9. Item 5. Item 5	e is required by KAPL at of \$19.00 pe spectively. Durchase provided the itary and the KAPL prior of 3 1/4" -		
		21	Zirc Item Soll poun Sell addi from mate Spec cert to u 1. KAPL 3 1/	aloy II on 9, it vil or's expend d and \$4.0 er reserved tional Zin KAPL or of rial is constituted ification se. vill furn 2" Zircalo	Item 9. F Boron Carbide Li be supplied use at the rate DO per gram res es the right to realoy butter sources p ertified to Mil MIL-719859A at is approved by bar; Bacitional An is required by rock required by	e is required by KAPL at of \$19.00 per spectively. Durchase provided the litary and the KAPL prior of 3 1/4 - realoy 11 or the Seller t y Items 10 an	o d	
		2	Zirc Item Sell poun Sell addi from mate Spec cert to u 1. KAPL 3 1/	aloy II on 9, it will or's expend d and \$4.0 er reserved tional Zin KAPL or of rial is constituted ification se. will furn 2" Zircalo	Item 9. Item 5. Item 5	e is required by KAPL at of \$19.00 pe spectively. Durchase provided the itary and the KAPL prior s of 3 1/4" - realoy 11 or the Seller t y Items 10 an APL at Seller	o d 's nd	nued Fage 6)

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,cH	ASING			P.O. B	OX 1072	SCI	HENECTAI	DY, NEW	YORK
ADER NO.	M.R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE		NO. ON ALL PACK CORRESPONDENCE		NPD 44	ORDER NO.
. 10 N & C Mu	clear 1	Inc.	<u></u>	لــــــ		NOLLS ATON AREHOUSE BLDG. M. HENECTADY, NEW Y		andmont	
Page							'ORK		
LING INSTRUCTIO	INS IUSE LETTEI	RHEAD ADDRESS):		n duplicate to: FINANC ents f. o. b. shipping point			<del></del>		
P VIA				F. O. B.	TERMS		Certified MS Reg.		
DUESTED ON SITE	DELIVERY DA	ATE		ORDERED FOR		BLDG.		UYER	
			• Contract No. ns of attached	AEC W-31-109 EN Purchase Supplement		NOBS 56405		OBS 72103	
QUANTITY	UNIT	DELIVER T	Ю:				UNIT PRICE	DISCOUNT	NET TOTAL
	2	addi KAPL is c Z-19 by K 2. KAPL be a Item orde Item Jtem plac 3.	tional Zim or other ertified t 859A and t APL prior requires a follows: a 6, 7 and r placement 8 10 and 1 ement. Terms and	sources provi to Military Sp the certificat to use. and it is ess 18 - 14 calen	ded the mater pecification f ion is appro- mential that of dar days after fter order pi ar days after f the origina	AlL- ved Melivery er Lacement. r order			
				ily amended h		. CASCUD			

	.64.		PURCHASE			- <b>B</b>		
.CHA	SING	KNO	ATOMIC PO' P.O. BO		RATORY		CTADY, NE	W YORK
TO M & C Nuc	M. R. NO.	COMM. NO. DATE ORDERED		SHOW NP ANI	D NO. ON A D CORRESPON	LL PACKAGES IDENCE	PURCHAS	E ORDER NO.
Page 7				v	WAREHOUSE B	LDG. M-2		
	S (USE LETTE	RHEAD ADDRESS): RENDER INVOICI ON PREPAID SH	IS IN DUPLICATE TO: FINANCE- IPMENTS F. O. B. SHIPPING POINT A			uL		
SHIP VIA			F. O. B.	TERMS		DO-E2 Certi DMS R		
REQUESTED ON SITE	DELIVERY D	ATE	ORDERED FOR		BLC		BUYER	
-	•	to Gov't Prime Contract No. and conditions of attache DELIVER TO:		52 🔲 NAV	/Y NOBS 5640	/Y - 858 [	VY NOBS 72103	
		PURCHASE ORDER P Original Amount of Change by Amendm Increase by Amend Increase by Amend Revised Tota "Certified for m 1" and "You are a of DMS Reg. 1 and and orders of BD and other product this order."	of Order ent #1 Iment #2 dment #3 al Amount of Purc ational defense u required to follo i of all other en EA in obtaining of ts and materials	\$100,000 -0- 1,500 19,095 chase Order ise under I w the prov pplicable r controlled	) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		\$1	20,595

KAP-60- (3-60)	REV.	KNg	PURCHASE OF		OR	5-25		
PURCHA	ASING		P.O. BOX 10			IENECTAD	Y, NEW	YORK
Atti Atti	C Ruci leboro a: Mr	COMM. NO. DATE ORDERED APR 1 5 1960 LEBT, IDC. MEBE. W. PRYLICOR ERHEAD ADDRESSI: RENDER INVOKCES II ON PREPAID SHIPM		SHIP TO: <b>KNO</b> WAREH SCHENE OUNTS PAYABLE.	RRESPONDENCE PLLS ATOM IOUSE BLDG. M- ECTADY, NEW Y			44.770
SHIP VIA	·-··		F. O. 8.	TERMS		Certified u MS Reg. 1	Inder	
REQUESTED ON SITE	DELIVERY D	ATE	ORDERED FOR H. H. Winkler	Nezz.	BLDG. E-1	BU	YER . Tento	x=/.j.jd
		to Gov't Prime Contract No. and conditions of attached	AEC W-31-109 ENG. 52	AEC - 958				
ITEM QUANTITY	UNIT	DELIVER TO:				UNIT PRICE	DISCOUNT	NET TOTAL
1 105	63.	Purchase Order January 5, 196 further emende Delete Item 1 Lieu thereof t with KAPL fraw Specification	in its entirety at the following: ing 942Cl41, Rev. KPM 3-44, Rev. 4 ( ended by Instruct:	ate is here ad substitut olies in acc 0, Group 1; Eated Octobe ion 1 and 9	by te in cordence ; KAPL er 5, 1959			

KAP-6G (3-60)	BEV			<b>A</b>	SE ORDER				
	•		KN.	S ATOMIC P					
PURCH	ASING	<u></u>		P.O. B	OX 1072		HENECTAD	Y, NEW	YORK
	-						<u> </u>	JRCHASE O	RDER NC
OP ORDER NO	M.R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE		ONO. ON ALL PAC		IPD	44.77(
TO			, <b> </b>	-1					
E &	C Macl	car, Inc.		·	Ship to: <b>K</b> W	AREHOUSE BLDG. A	MIC POW	ER LAB	ORAT
F	2 aga				Sc	CHENECTADY, NEW	YORK		
LING INSTRUCTIO	INS (USE LETT	RHEAD ADDRESS)		IN DUPLICATE TO: FINANC WENTS F. O. B. SHIPPING POIN					
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UESTED ON SITE	DELIVERY C	ATE		ORDERED FOR	<u> </u>	BLDG.	DMS Reg. 1 BU	YER	
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		i% wi	111 be sur	miled by KAPL	, at Seller's	expense at			
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		· · · · · · · · · · · · · · · · · · ·					PURCHASE	ORDER NO.
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- TO		d <u></u>	<u> </u>					idnent ;
% M	C Nucl	cer, Inc.			REHOUSE BLDG. N		VER LA	BORAT
F	<b>2</b> 00 3			SCF	HENECTADY, NEW	YORK		
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QUESTED ON SITE	DELIVERY DA	TE	ORDERED FOR		BLDG.		BUYER	
is order placed	l d pursuant	to Gov't Prime Contract No.	AEC W-31-109 EN	G. 52 NAVY	NOBS 56405	NAVY N	IOBS 72103	
bject to gene	eral terms	and conditions of attached	Purchase Supplement	AEC - 958	NAVY - 858		<u> </u>	
	UNIT		DESCRIPTIC	N		UNIT PRICE	DISCOUN	NET TOTA
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Subject: Disposition Instructions for EXPL-Supplied Eiseolog Under Purchase Order HPD 44770

June 23, 1960

N & C Mathemr, 125. Post Office Box 898 Abtlohoro, Massachusetts

Attentions Mr. K. C. Duffy

Gentlemen:

The meterial utilization report for Government-controlled zirosloy and  $B_{\rm b}C$  supplied by KAPL for purchase order HPD 40770 as submitted with your letter of June 8, 1960, has been reviewed and found to be matisfactory.

Will you plages prepare and ship f.c.b. your plant the 1,613.5 pounds of nonuseship many and the 117.6 pounds of seconds enterial to:

> Englis Atomic Four Laboratory Building N-C, Marshouse Schemostady, New York

Attention: Mr. L. Neuman/V. J. Gallagher

All of this motorial should be obipped under MPD 44770 and identified by the respective ingot mashers. Thank you for your cooperation in assisting we to close out this purchase order.

Very truly yours,

L. E. Duran - Contract Analyst Materials Accountability

15D:ml

boc: HF Bredt HS Dorr HJ Gellagher FC Hanny IV Kissinger HH Winkler

for a my



TELEPHONE 1-3800

June 8, 1960

Knolls Atomic Power Laboratory Box 1072 Schenectady, New York

Attention: Mr. L. E. Duran

Subject: Material Utilization Report for Government Controlled B₄C and Zircaloy Supplied by KAPL for Use on Purchase Order NPD 44770.

Gentlemen:

As requested in your letter of May 20, 1960, a utilization report of B₄C and zircaloy is enclosed for purchase order NPD 44770.

If we can be of any further assistance regarding this report, do not hesitate to contact us.

Very truly yours,

M & C NUCLEAR, INC.

K. C. Duffy

K. C. Duffy Materials Accountability Representative

KCD-b1

Materials Utilization Report - NPD 44770 (KAPL-136)

#### ZIRCALOY

<u>Receipts</u>

Received from Jessop Received from KAPL Received from SCH-60-16	3438.0# 178.9# <u>195.4#</u>
Total Receipts	3812.3 <b>#</b> ✓
Disbursements	
Product Weight Shipped to KAPL Transferred to SHC-60-16 Chips & Turnings Burned at M & C Non-usable scrap on hand Usable material on hand Material loss in process	835.6# 832.1# 55.5# 104.4# 1613.5# 117.6# TO BE RETURNED (LETTER 6/23/00) 253.6#
Total Disbursements	3812.3#

.

## B4C

<u>Receipts</u>

Received from KAPL		100.7#
Disbursements		
Product Weight Material on Hand Process Loss	94.6# .2# _5.9#	
Total Disbursements		100.7#

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The following is a breakdown of the disbursements listed on page 1 of this report.

Product Weight			
Description	Heat	Weight	`
Zirc	HZC1046 & 28248 HZC1045, 1046, 1062	<b>286.</b> 5#	
End Caps	HZC1111 HZC1112 OM-89	63.4# 210.0# 	835.6#
Shipped to KAPL			
3-1/4 dia. rod	НZC1045, 1046 ӨМ-89	751.6# 80.5#	832.1#
Transferred to SCH-60-16			
	HZC1045 & 1046	55.5#	55.5#
Chips & Turnings Burned at M & C			104.4#
Non-Usable Scrap on Hand			
End Crops from Tubing Billets Chips & Scrap	HZC1045, 1046 HZC1045, 1046 HZC1046, 1112, 1045	84.0#	1613.5#
Usable Material on Hand			
1-1/8 OD Tubing 1-1/4 Dia. Rod 2-1/2 Dia. Rod 1.375 Dia. Rod	HZC1045 & 1046 HZC1112 HZC1046 HZC1045, 1046 HZC1046 HZC1046 HZC1046 HZC1046 HZC1111 OM-89	35.8# 10.0# .6# 26.5# 18.0# 10.0# 7.0# 7.0# 2.7#	117.6#
Material Loss in Process			
Zirc II	HZC1046, 28248 HZC1111, 1045, 10	11.0#	
Machining Loss	HZCIIII, 1045, 10 1112	<u>243.6</u> ≇	253. <b>6</b> #
			3812.3#

Page #3

The following is a breakdown of the receipts listed on page #1 of this report.

Received from Jessop			
3-1/4 Zirc Rod	HZC-1112 HZC-1045 & 104	719 <b>#</b> 6 <u>2719</u> #	3438.0∄
Received from KAPL			
	OM- 89	178.9#	178.9#
Received from SCH-60-16			
1-1/2" Zirc Rod	HZC-1111	195.4≇	<u>195.4</u> #
			3812.3#

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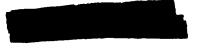
7-87000

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KAP 444-8 (7-40) N	ew			PURCHASE	ORDER				Se .
			KNO	LLS ATOMIC PO	OWER LABOR	ATORY	`.		EXPENSE
URCHA	SING			P.O. BO)	( 1072		SCHENE	CTADY, NE	
	_	OPER	ATED BY THE GENE	RAL ELECTRIC COMPANY UND	ER GOVERNMENT CONTRAC	T W - 31 - 109-ENG	52		<u>T</u> rage
	RDER NO.	M.R. NO.	DATE ORDERE		· -			PURCHASE C	- UES
7348236		51364	4/25/61	3611	SHOW NPD NO AND COI	. ON ALL PAC RESPONDENC		NPD COO	<b>78-1</b>
	alenar a 898	rinols, Inc. Fraincis	,	1	SCHEN	OUSE BLDG. A ECTADY, NEW ITERHEAD ADDRESS:) CE – ACCOUNT HIPPING POINT ATTA	A - 2 YORK RENDER INVOICI S PAYABLE ICH ORIGINAL T	ES IN DUPLICATE TO	ORATOR
anir vin				Destination	TENNIS	DO-E	2 Certitie DMS Reg	od under 2.1	E.
REQUESTED ON SITE	DELIVERY	DATE		ORDERED FOR	1	BLDG.		BUYER	. /
		instanation.		L. Roth		3-1		M. Tenta	
THIS ORDER SU	NECT TO	GENERAL TERMS	AND CONDITIO	ONS OF ATTACHED PUI	RCHASE SUPPLEMENT	NO. AEC-9	58fl		-31
ITEM QUANTITY	UNIT	DELIVER TO:	Jotik	B- ( WILDI		( wc		DISCOUNT	NET TOTAL
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2 5	••••	April 25,		Replanat A t	in 1179 (70076-1	åntel		4	900.6
5	-	In accorda April 25,		Supplement A t	o III) 00078-X	deted			<b>900,0</b>
44. 10	•	In accords April 25,	-	Supplement A t	19 <b>HED 00378-</b> 1	čateć.			1,808.0
48 10	-	ln accorda April 25,		Bupplement A t	o XII 99078-X	äxtei			1,800.0
			CORT	Zeued on Pace	2				
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THIS ORDER CONSISTS OF _____ PAGES.

# GENERAL 🀲 ELECTRIC

When Separated From Enclosures, Handle This



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		0	ERATED BY THE	GENERAL ELECTRI	C COMPANY UNDER	GOVERNMENT CONTRACT W	- 31 - 109-ENG52	·	·····
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	nat Car	ntrols, D 2668 2	<b>B</b> *		1	SCHENECT LING INSTRUCTIONS (USE LETTERH FINANCE - PREPAID SHIPPRENTS F.O.B. SHIPP	SE BLDG. M-2 ADY, NEW YORK (EAD ADDRESS:) RENDER IN ACCOUNTS PAYA ING POINT ATTACH ORIGIN	VOICES IN DUPLIC BLE HAL TRANSPORTAT	ATE 701
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QUESTED ON SITE	DELIVERY DA	ATE		ORDERED FOR	k		BLDG	BUYER	
S ORDER SUB.	JECT TO C	GENERAL TERM		DITIONS OF A	ATTACHED PURC	HASE SUPPLEMENT NO		FUNDING	
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THIS ORDER CONSISTS OF _____ PAGES.



NOLLS ATOMIC POWER LABOR

OF	3 PAGES.	VENDOR Metals and Controls, Inc.	PURCHASE ORDER NO.	<u>_00078-Y</u>
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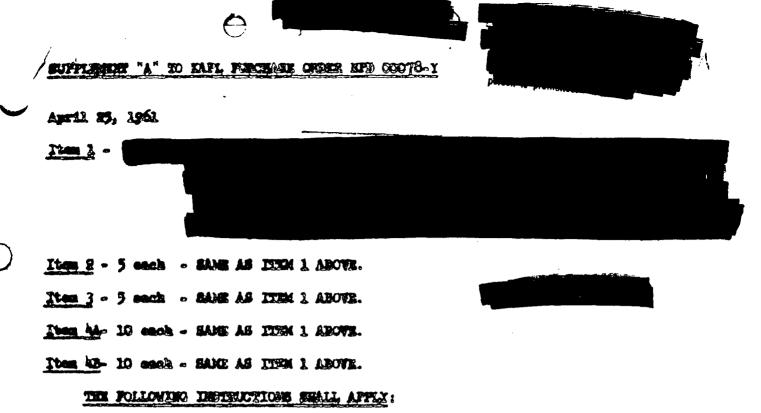
- 4. In accordance with Supplement A.
- 5. KAPL Technical representative shall be present during all operations. Seller shall advise KAPL 72 hours prior to performing all operations.
- 6. Any group of five (5) pieces of Item 1 thru 4B will be produced in accordance with
- 7. Acceptance or rejection of Items 1 thru 4B shall be based on Seller's compliance with:
  - a. Seller's manufacturing process outline.
  - b. Adherence to the component drawings.
- 8. KAPL requires and it is essential that delivery be as follows:
  - a. Process outline shall be submitted seven (7) calendar days after receipt of order.
  - b. Items 1 thru 4B shall be completed within 14 calendar days after receipt of KAPL's approval of Seller's process outline, receipt of the appropriate Government furnished material and designation by KAPL of specific dimensional requirements for each item.
- 9. The following paragraph is hereby incorporated and made a part of the terms and conditions of this Furchase Order NFD 00078-Y, Article XV, Inspection, Paragraph H:

"Inspection and test requirements specifically required by this contract are for the convenience of the Buyer and do not relieve the Seller of his responsibility to provide a high quality product and one which meets all applicable contract specifications. If during the Buyer's own test or inspection of the equipment after its delivery, any condition is uncovered which fails to meet all the applicable contract specifications, the Seller is financially responsible, <u>in</u> accordance with the provisions of Article 16-Warranty, for correcting these conditions; this requirement applies irrespective of the extent of testing or inspection specifically required of the Seller by the contract."

- 10. The attachment entitled "Transmission Abroad of Equipment or Technical Data Relating to Nuclear Propulsion of Naval Ships" is made a part hereof, by this reference hereto.
- 11. The attachments entitled "Non-Discrimination"; "Decontamination"; are hereby made a part of the Terms and Conditons by this reference thereto.

Certified for national defense use under DMS Reg. 1. Seller is required to follow the provisions of DMS Reg. 1 and of all other applicable regulations and orders of HDSA in obtaining controlled materials and other products an³ needed to fill this order.





1. Under the provisions of Article IX entitled "Government Furnished Property" and Destructions herein, General Electric will furnish to Seller the following items of Government property for use in consection with end under the terms of this order:

Ъ.

If the second and furnished by MAPL is insufficient to cover the work required by this order, additional for and Xirenloy- can be perchased from KAPL At Saller's expanse at the price of \$1800. per formed and \$16.00 per 10, of Zirenloy Seller also has the option to purchase additional Zirenloy meterial from other sources provided it is certified to the order requirements and the certification is approved by KAPL prior to use. All satesrial used by the Seller for the work required by this order shall be exclision by the Seller as being HAPL-supplied material or other MAPL approved material.

2. Seller shall perform the following work:

Arear the completion of Item 1 the contain may obtaine for subsequent items but the redesign will be within the drawing dimensions as included berein.

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REPRODUCED AT GOVT EXPENSE # 18

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			Bucher P			SHIP TO: KNOLLS	ATOMIC	POW	ER LAB	ORATO
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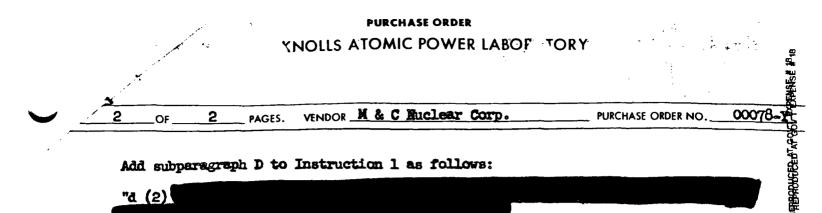
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м	QUANTITY	UNIT	DELIVER TO:		(BUILDING)	( ROOM )	UNIT PRICE	DISCOUNT	NET TOTAL
									\$575.00
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			on Sketch I Add the fol 12. Selle order. All other t as amended except as a PURCHASE OF Original Am Increase by	to date are	allo. authorized a produced for ditions of the to remain in for manded herein.	wiginal order			\$8,810.



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			OPERA	TED BY THE GENER	AL ELECTRIC COMPANY UNDE	R GOVERNMENT CONTRACT W	-31 - 109-ENG52		
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7	318236			8/4/61	3611	SHOW NPD NO. C	N ALL PACKAGES	NPD 🔐	<b>2078-т</b>
	O				<b></b>				2078-7
		N&C P.Q. 1 Attlei	s and Conto Nuclear Pro Box 898 Doro, Massa Nr. R. Sa	oducts chusetts	1	LLING INSTRUCTIONS (USE LETTER	HEAD ADDRESS:) RENDER INV - ACCOUNTS PAYAE	OICES IN DUPLICATE TO	BORATOR
SHIP VI	A		<u>_</u>		E.O.B. Destination	TERMS	DO-E2 Certi DMS F		V 1 1
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GENERAL 🍘 ELECTRIC



Add Instruction 13 as follows:

13. All components for Item 2 shall be machined in accordance with the attached sketches 1-7 dated 7/10/61.

Purchase Order Supplement, General Terms and Conditions of Purchase AEC-958, is hereby amended in accordance with the document estitled "Modification to AEC-958" which is attached and made a part hereof.

14. The attachment entitled "Government Furnished Zircaloy Material" is hereby designated as Article 38 under Purchase Order Supplement AEC-958, except Para. G which is deleted in its entirety.

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.

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 HDSA in obtaining controlled materials and other products and materials needed to fill this order.

#### PURCHASE ORDER PRICE SUMMARY

Original Amount of Order	\$7,100.00
Change by Previous Amendments	1,710.00
Change by this Amendment No. 2	255.00



General Electric Company KNOLLS ATOMIC POWER LABORATORY Schenectady, New York

Mr. R. M. Tentor Purchasing Bldg. A - 4 KAPL Site

LETTER OF JUSTIFICATION TO FABRICATE COMPONENTS Subject: Item 2 - NPD 00078-Y

(1) Inquiry IV-4, dated July 11, 1961 (NPD 00078-Y) References: (2) Cost Estimate on Inquiry IV-4, dated July 11, 1961

The proposal as submitted by M&C has been evaluated and the price of \$4,250 is within the KAPL estimate. The following is a breakdwon of the M&C Contract NPD 00078-Y:

1. Dollars Already Spent

	Cost Items 1 & 1A Close out charges Items 1-4B	\$2,193 _2,622	
	Total dollars spent	\$4,81	15
2.	Dollars New Item 2	4,25	<u>50</u>
	Dollars Acc. (Est.) Dollars presently committed	\$9,06 8,81	
	Dollars this change (Est.)	\$ 25	<u>55</u>

Reductions, because of the exceptions, are estimated at approximately \$360. The exceptions are:

1. KAPL will furnish Zr-2 material

2. M&C will not perform ultrasonic testing.

The termination charges covering Items 2-4B have been evaluated and are considered fair and reasonable. If any reduction can be obtained by having the vendor keep the material the vendor procured, it should be done as KAPL has no immediate need for this partially machined material.

APPROVED

Herbert F. Brown, Manager

L. Roth Fuel & Poison Mfg. Development NUCLEAR CORE OPERATION

LR/vdz

		Hanny
	KNOLLS ATOMIC POWER LABORATORY SCHENECTADY, NEW YORK	
Dat <b>e</b> :	July 28, 1961	CA D
То:	Metals & Controls Nuclear	
Subject: Instruc	FUEL to Vendor No. 4A (NPD 00078-Y)	, ,

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

Amendment	
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R&D	
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255	
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	FP

(SIGNATURES REQUIRED)

8/2/01

Programming

Cost and Budget Control Approved: 7th Level Manager

6th Level Manager

5th Level Manager

4th Level Manager

General Manager

DISTRIBUTION:

HF Brown GR Kingsbury FC Hanny CE Lacy LM Loeb HL Mars WW Ward RM Tentor (5) JK Gingrich JK4/BL9.

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Cognizant Requester:

ⁿfebrokee^r1,²880<del>, fe</del>sterse[#] J^aB

		P. O. BOX 1072 SCHENECTADY. NEW YORK
Date:	July 28, 1961	
То:	P.O. Box 898	
Attention:	Mr. R. Sager/Dom	nelson/Sherman
Subject:	FUEL	
Instruc	tion to Order Nc.	4A
Reference	:NPD 00078-Y	
1. De:	lete Items 2 - 41	3 from NPD 00078-Y and replace with a new Item 2.
2. M&	C is instructed t	to proceed with the fabrication
3.		
4.		
		ecified in NFD 00078-Y shall be referenced with the follow-
а.	All components	will be machined to the attached sketches 1-7 dated 7/10/61.
b.	plete requireme	(NPD 00078-Y) to com- ents of new Item 2 (reference sketches 4-6).
с.		
	To: Attention: Subject: Instruc: Reference 1. De: 2. M& 3. 4. 5. All ing a. b.	<ul> <li>To: Metals &amp; Control P.O. Box 898 Attleboro, Mass.</li> <li>Attention: Mr. R. Sager/Dox Subject: FUEL</li> <li>Instruction to Order Nc.</li> <li>Reference: NFD 00078-Y</li> <li>1. Delete Items 2 - 41</li> <li>2. M&amp;C is instructed to a second sec</li></ul>

6. M&C will hold KAPL material from old Items 2 - 4B until notified.

Cognizant Requester:

	No.		_			•		Ter M.	
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(For Accountability Use Only)

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The following contractual information[•] is provided from contractual record files and is factual to the best knowledge and belief of the Manager – Materials Accountability:

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General Electric Company KNOLLS ATOMIC POWER LABORATORY Schenectady, New York

DISPOSITION INSTRUCTIONS

Date: July 17, 1962

To: Metals & Control, Ruclear, Inc. Attleboro, Massachusetts

Attention: Mr. W. E. Stevenson

Subject: Disposition of Excess Eirosloy Material - MPD 000784 (KAPL 212) Reference: Your Inventory Report Form (KAP 1345) dated Jan. 10, 1961 Gentlemen:

You are hereby instructed to dispose of the material listed in the abovereference as follows:

Prepare and ship f.o.b. your plant the following material:

### 71 pounds of Zirceloy strip-inget M-36 and 111 pouns of Residue Type II

Ship to: Knolls Atomic Power Laboratory Warehouse - Building M-2 Schenectady, New York Attention: Mr. L. Newman/H. D. Swart

Permission is granted to burn and bury the 256.3 pounds of residue Type III.

Upon disposition of the above material, please inform us in witin

of the exact amount disposed of and date thereof.

Identify all material shipped to KAPL by NPD 00078  $\checkmark$  .

Very truly yours,

cc: NE Bredt Scotters JJ Coomes JS Roicki RJ Dilz File

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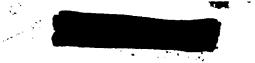
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ANULLS ATUMIC POWER LABORATORY RO 51377 CONTRACTOR STORES **Request for Quotation** i orís OPG (PROCUREMENT & STOCKING) 60.00 at MR M white L S rill be used when mat gr -ol la orderad. Ben QUOTES NOW EXPENSI 40 APTRA SUGGESTED SOURCES <u>607</u> WINC - New Haven, Coun. TO PURCHASING: 1 片 MEC - Attleboro, Mass. Plance altain QUOTATIONS ONLY on Materials REPRODUCED and/or pervices listed below Westinghouse, Chesviek, Pa. PURCHABING USE ONLY - DO NOT WRITE IN THIS BLOCK BIN SHOW FORMER HPD NUMBER IF AVAILABLE 1.9 .... 1 WEEL 14 ŝ. Manager Getes. REQUESTED DELIVERY DATE PURCHABING VSE OHLY DESCRIPTION: REQUEST ONLY ONE TYPE COMMODITY PER R.Q. - Please print ITEM OTY UNIT DISC. ABBRET BET PRICE or type ÷..., 2 4 ea Same as Item 1. THE FOLLOWING INSTRUCTIONS SHALL APPLY: In the event the Government-furnished property is not suitable for the intended use. Seller shall 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 performence dates or order price. 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 Article VII entitled "Changes" of . . A Alandan WILLI KAPL General Terms and Ounditions No. AE0-958. . We have checked idutorial Can-The execution of this request will not involve a Beecher & NCO Seet. Centry tral, AEC and DOD ancess pe classified information. (Process classified orders as Electrical____SPO___Mechanical sunal property lists and find quirod by security OPGS.) ve meterial net eveilthe adt able from those sources. 7/21/61 FE Spinelli El 7177 2 7 **.** · DATE BURNITTED REQUESTER BL DG FHOME CADE SUYER DATE Kha À. 1 OK SMB 7-26-. . . . APPROVED The start of the start 15711; Whit from when pempleted and submitted to Purchasing will initiate action for QUOTATIONS ONLY... Whit form in designed for use with Instantal Request form KAP 61. A PART 18. Places type or use heavy pr al submitted to Purchasing will initiate action for QUOTATIONS ONLY as a of both parts. 2 į. ¥.... Wes fans KAP 41.8 PART I when additional pages are required. - Ar Art in particular á. 1 .



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				specific dimensions prior to Seller initiating	1		
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	-		<b></b>	work on each item.	<b> </b>	tin mene	·
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			1				Car Burger &
100 Marca			4.	Seller shall submit a detailed process outline			
الفائدية بالبواد ماته	-			for KAPL review and approval prior to starting	2		
الكرامية المرجور فيتعالم	-			work. The process outline shall		and a second	
			-	the following informations			
		<u> </u>			ponent		
	-			components.		بستشب	
	1844 A 44	·~	S	c) Complete assembly procedure.			
~				(d) Evacuation of pack assemblies including	···		
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		A .	5.	KAPL tooknical representative shall be present			
A			5	during all operations. Seller shall dvise	ŢĊ		A A A A A A A A A A A A A A A A A A A
				KAPL 72 hours prior to performing all operations.	1 200		1.9.7
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				IADDITIONAL PAGES			
			Please print	P1	RCHASIN	IG USE ONLY	
<u>(EM</u>	QTY.	UNIT	DESCRIPTION: REQUEST ONLY ONE TYPE COMMODITY PER R. Q or type	UNIT	QTV.	NET PRICE	
,			6. Acceptance or rejection of Memb 1 and 2 shall				
			be based on Seller's compliance with the following		· · · · · · · · · · · · · · · · · · ·		
			(a) Seller's manufacturing process outline.				
			(b) Adherence to the component drawings,		•	1	
						ŧ	
		╉───┦		•		f	
		 	produced in accordance with			+	
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			8. Delivery Requirements				
	· - · - •		KAPL requires and it is essential that delivery		· · · ·		
		F	be as follows:				
			(a) Process outline shall be submitted seven		1		
/t			calendar days after receipt of order. Upon		1	†	
		<u> </u>			<u> </u>	1	
ŧ			the completion of each item. Seller shall				
			submit within sever calendar days any		ļ	<u>↓</u>	
			modifications required in order to produce				
			the subsequent items.				
			(b) Items 1 and 2 shall be completed 14 calendar			1	
			days after receipt of KAPL's approval of				
			Seller's process outline, receipt of the			1	
		[appropriate KAPL furnished material and the				
		h					
		 	designation by MAPL of the specific drawing				
		├ ──┥	dimensions. Any work performed by the			<u> </u>	
		L	· Seller on these iters prior to receipt of			L	
			KAPL approval of Geller's process outline			1	
T			vill be at Seller's risk,				
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KAPL 1094 GA PLS

THIS MAND C NUCLEAR ATTL MS 4/50 PME 2/28/62

ATTN MR J J COOMES

M AND C ISSUED FINAL MATERIAL INVENTORY REPORTS FOR COMPLETED ORDERS NPD 00078Y, NPD 01247D AND NPD 01737D ON JANUARY 12 1962. TO DATE NO ACKNOWLEDGEMENT OR DISPOSITION HAS BEEN RECEIVED. WE REQUEST THAT THIS MATTER BE RESOLVED AS SOON AS POSSIBLE.

Tom-

RECEIVED

FILE NPD 1247

Comp KETED

H. DERRS

SFFE

REPRODUCED AT GOVT

MAR 2/2 mar

J. J. CO

M AND C NUCLEAR PRODUCTS F L CUTRONE CONTRACT ADMINISTRATOR

END PLS ACK EX GERRY

\$END

General Electric Company KNOLLS ATOMIC POWER LABORATORY Schenectady, New York

DISPOSITION INSTRUCTIONS

Date:

TO: METALS & CONTROL INC. P.O. Box 898 ATTLEBORD MRIS

Attention: MRF. L. CUTRONE Subject: SURPLUS MATERIAL FROM 'NPD 01247 Reference: MR LEYERRY'S MATREIAL REPORT (KAP 1345) DATED 1/12/62 Gentlemen:

You are hereby instructed to dispose of the material listed in the abovereference as follows:

Prepare and ship f.o.b. your plant the following material:

149.6 POURIDS ZR. MATERIAL

Ship to: Knolls Atomic Power Laboratory Warehouse - Building M-2 Schenectady, New York

Attention: Mr. L. Newman/H. D. Swart

Permission is granted to BURN & BURY 23 LBS. OF

ZR CHIPS

Upon disposition of the above material, please inform us in writing

of the exact amount disposed of and date thereof.

Identify all material shipped to KAPL by NPD O/z47.

Very truly yours,

cc: NF Bradt FS Honry JJ Coomes JS Roicki RJ Dilz File R E Dura Core Materials Procurement Materials Accountability NUCLEAR CORE OPERATION

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				KNO	LLS ATOMIC PO	WER LABORA	TORY			:
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THIS ORDER CONSISTS OF _____ PAGES.



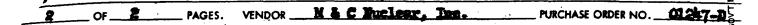
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GENERAL 🍘 ELECTRIC

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PURCHASE ORDER

KNOLLS AIOMIC POWER LABORATORY



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Certified for actional defense use under EMS Regulation No. 1. Seller is required to follow the provisions of EMS Regulation No. 1 and of all other applicable regulations and orders of HDSA in obtaining controlled materials and other products and materials medici to fill this order.

PURCHASE OFFICE FRICE SUMMARY

Original Amount of	Order		\$6000
Change by this Amer	duent No.	1	900

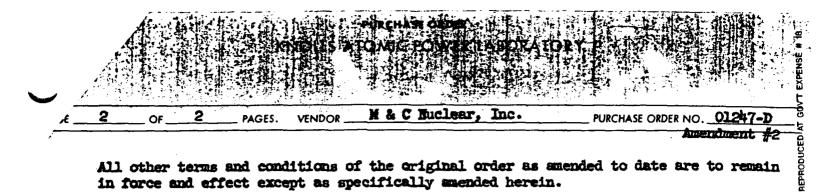
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í.	ASING	G ·	,	-		OX 1072			CHENEO	TADY, NEV	YORK
			OP	ERATED BY THE GEN	VERAL ELECTRIC COMPANY		CONTRACT W-3				
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All other terms and conditions of the original order as amended to date are to remain in force and effect except as specifically amended herein.

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PURCHASE ORDER PRICE SUBMARY

Original Amount of Order	\$6,000.00
Change by previous Amendments	900.00
Change by this Amendment #2	-Q



MYC NUCLEDR AUDITOF XIPD 01247-UR. MAT'L RECD BY MYC ON ,240 K FMC-MAC-Z BY KAPL MAT'L RECD MAC SGE 728 12/11/61 240 KG • CE Duran 4/30/61 ÷ ł ÷ , i . :

SLH 59-270 Nev

CNOLLS ATOMIC POWER LABORATORY SCHENECTADY, NEW YORK

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x. /

Dala: June 8, 1959

To: M& C Huclear, Inc.

Subject: SUPPLY CONTRACT SCH 59-270 - HEALTH AND SAFETY MANUAL APPROVAL INFORMATION to Vende: No. SCH 59-270 - IV 5

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

Information Fixed Price

(SIGNATURES REQUIRED)

Financial Representative

Approved: 7th Level Manager

6th Lovel Manager

Sth Lovel Manager

4th Level Manager

General Manager

- JTRIBUTION:
- JW Boller (Lt. Cmdr.) **CF** Derse AN Doonan WC Gibelius JV Goldthwaite GA Hanlon FC Ranny JF Kagay OFL GR Kingsbury CE Lacy HA Loucks HR Pegano'(2) WET WJ Prime 8 Sturges JPL RC Traxler & WW Ward(2) Cherubin RC RS L



JUN 1 2 1959 F. C. HANNY

Cognizant Requester:

OLLS ATOMIC POWER LABORATORY P. D. BOX 1072 SCHENECTADY, NEW YORK

Date: June 8, 1959

-1

To: M&C Ruclear, Inc. P. O. Box 898 Attleboro, Massachusetts

Attention: Mr. R. M. Dunlop

Subject: SUPPLY CONTRACT SCH 59-270 - HEALTH AND SAFETY MANUAL APPROVAL INFORMATION to Vendor No. SCH 59-270 - IV 5

Reference: M & C Request Form #14

The M & C Health and Safety Manual is approved as written. Nowever, it is believed that procedure 583-01-03 Section VIB should specify the type vacuum cleaners to be used to remove dust or liquid contamination.

As this section is presently written, it is conceivable that an operator could select a cleaner which would spread contamination rather than remove it. For example, household cleaners and some connercial cleaners have strong exhaust blast which can spread air contamination throughout a plant.

REPRODUCED AT GOVT EXPENSE # 18

SCHENECTADY, NEW YORK

Date: June 17, 1959

To: N& C Nuclear, Inc.

Subject: FUEL ELEMENT SURFACE STANDARDS IEFORMATION to Vender No. SCH 59-270 - IV 10

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

Information Fixed Price

None

(SIGNATURES REQUIRED)

Financial Representativa

Approved: 7th Level Manager

6th Level Manager

Sth Level Manager

4th Level Manager

General Manager

- JISTRIBUTION:
 - JW Boller (Lt. Cmdr.) AJ Brown **CF** Derse WC Gibelius JV Goldthwaite GA Hanlon FC Hanny JF RAGBY VFK/WRY GR Kingsbury CE Lacy HA Loucks HR Pagano (2) THE T 6/18/59 WJ Prime 6 Sturges JP RC Traxler WW Ward (2) AN Doonan CE Smith



JUN 2 2 1959 F. C. HANNY

. Trasles N. C. Schlin Cognizant Requester

P. O. BOX 1072 SCHENECTADY, NEW YORK

Date: June 17, 1959

To: M & C Nuclear, Inc. P. O. Box 898 Attleboro, Massachusetts

Attention: Mr. R. M. Dunlop

-

Subject: FUEL ELEMENT SURFACE STANDARDS INFORMATION to Vendor No. SCH 59-270 - IV 10

Reference: M & CN Request Form KAPL-97 #27 dated 6/8/59

The set of fuel element surface standards (Identification #59-270) are approved for use on Supply Contract SCH 59-270. These standards may be used for inspecting surface finish to 3-KFMO-54.

This information does not relieve the contractor from fulfilling his obligation under this contract.

This information does not affect the scope of the contract and in no way a authorizes any increase in cost or change of delivery of the equipment being purchased under this contract.

Cognizant Requester: R. C. Trasler / 4. C. fibelin

KNOLLS ATOMIC POWER LABORATORY SCHENECTADY, NEW YORK

REPRODUCED AT GOVT EXPENSE #

Date: June 26, 1959

To: M & C Muclear, Inc.

Subject: Uranium Certification for M & C N Melting - Ingot Evaluation run -Information to Vende: No. SCH 59-270 - IV #15

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

(SIGNATURES REQUIRED)

Financial Representative

Approved: 7th Level Manager

6th Lovel Manager

5th Level Manager

4th Level Manager

General Manager

DISTRIBUTION:

JW Boller (Lt. Cmdr.) CF Derse AN Doonan WC Gibelius /402 JF Goldthwaite GA Hanlon FC Hanny OFK JF Kagay GR Kingsbury **CE Lacy** HA Louche HA Lou WJ Prime S Sturges JDL RC Traxler WW Ward (2) CE Smith (2)

P. hall, K Cognizant Requester

KNOLLS ATOMIC POWER LABORATORY P. O. BOX 1072 SCHENECTADY, NEW YORX

Date: June 26, 1959

To: M & C Nuclear, Inc. P. O. Box 898 Attleboro, Massachusetts

Attention: Mr. R. M. Dunlop

Subject: URANIUM CERTIFICATION FOR M & CN MELTING - INFOT EVALUATION RUN INFORMATION to Vendor No. SCH 59-270 - IV 15

Reference:

For the Ingot Evaluation Run and before melting can start, the furnished Uranium must be completely certified to KAPL Specification 3-KPM 3-18. This entails -

- 1) Obtaining Uranium isotopic analysis and ascertaining that all material furnished meets the specification requirements.
- 2) Calculating the second and ascertaining that all material furnished meets the specification requirements.

KAPL will check the Oak Ridge data for items 1 and 2 above for the material shipped from Schenectady. For the material which is shipped directly from Oak Ridge to M & C Nuclear, M & CN (P. Noffst) agreed to check the Oak Ridge chemistry data for items 1 and 2 above, in the event that the material is needed before KAPL has supplied full certification.

This information does not relieve the Contractor from fulfilling his obligation under this Contract.

This information does not affect the scope of the Contract and in no way authorizes any increase in cost or change of delivery of the equipment being purchased under this Contract.

aufler Cognizant Requesters

SCHENECTADY, NEW YORK

	Date:	July	10,	1959
--	-------	------	-----	------

To: Mic Huclear, Inc.

Subject: Status of Government Furnished Naterial Information to Vende: No. SCH-59-270 - IV-16

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

> > (SIGNATURES REQUIRED)

Information

Fixed Price

Hone

REPRODUCED AT GOVT EXPENSE AND

Financial Representative

Approved: 7th Level Manager

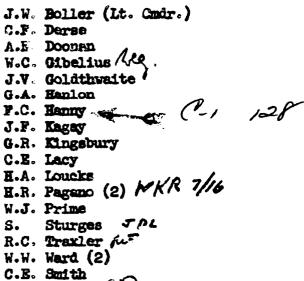
6th Level Manager

5th Level Manager

4th Level Manager

General Manager

DISTRIBUTION.



A.J. Brown

RECEIVED

2019 1 1 1959

F. C. HANNY

Cognizant Requester C [Jafler / He horry

REPRODUCED AT GOVT EXPENSE # 18

P. O. BOX 1072 SCHENECTADY, NEW YORK

Date: July 10, 1959

To: M&C Muclear, Inc. P.O. Box 898 Attleboro, Mass.

Attention Mr. R. M. Dunlop

Subject: Status of Government Furnished Material Information to Vendor No. SCH-59-270 - IV-16

Reference: 1. Contract SCH-59-270 dated May 7, 1959 Page 4 (Government furnished material).

- 2. Amendment #1, Supply Contract No. SCH-59-270.
- 3. BCH-59-270 IV-9 dated June 17, 1959 (Transmittal of Alpha Count Standards).
- 4. SCH-59-270 IV-10 dated June 17, 1959 (Fuel Element Surface Standards).

According to KAPL records the following is the status of Government furnished material on subject contract:

1. Per Reference 1.

a. 131.2 Kg of U235 Status - 132.007 Kg received at M&C Muclear*.
560 lbs. of Hafnium in crystal bar form Status - 561 lbs. received at M&C Huclear*.
b. Status - Available on request.
c. Dwg. M5-1B1-2188J Status - Market Status - Status

> - Dwg. PL-7A6839 Gr 2 Status - available on request.

- Dwg. PL-6480298 Gr 1 Status -

Cognizant Requestor Thanker Alfrech

OLLS ATOMIC POWER LABORATORY P. O. BOX 1072 SCHENECTADY, NEW YORK

Date: July 10, 1959

To: MEC Huclear, Inc.

Attention: Mr. R. M. Dunlop

Subject: Status of Government Furnished Material Information to Vendor No. SCH-59-270 - IV -16

Reference:

PAGE 42

f.

Clamps - Deg. 578D943, Gr. 1 Status 6 at MSC Muclear# 16 available on request

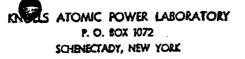
- g. 1 Wrench Dwg. USMC XRIT-X11 Status - at M&C Muclear*
- h. 1 Handling Tool Dwg. USMC XRLT-X66D Status - at M&C Ruclear*
- 1.

k.

- Clamps Dwg. 648C561 Gr. 1 Status - 6 at MAC Nuclear* 6 available on request
- j. 34 Shipping Containers Dwg. NS-9SK218 Status - 33 available on request 1 contains Call 8301-21
 - Dwg. FL-139F970F18 Status - at Mic Nuclear**
- 1. Dwg. PL-139F970P20 Status - at Mac Muclear**
- m. Government Tooling and Equipment delineated in list dated May 7, 1959 Status - at NBC Nuclear"
- n. 2 Ring Gages for Unit Call Acceptance Test Dwg. 8713817 and 8713818 Status - at MSC Nuclear*

Cognizant Requester C Theather Hi Fores

REPRODUCED AT GOVT EXPENSE # 18



Date: July 10, 1959

To Mic Huclear, Inc.

Attention: Mr. R. M. Dunlop

Subject: Status of Government Furnished Material Information to Vendor No. SIH-59-270 - IV-16

Reference:

PAGE #3

2. Per Reference 2 - Amendment No. 1 to Supply Contract No. SCH-59-270 Subparagraph 3B Material as delineated in list entitled "Additional Government Supplied Material" dated May 19, 1959 as follows:

a. (1) Alloy (2) Alloy (3) Alloy (4) Alloy	5,896 grams 7,380 grams 1,857 grams 44,574 grams
 b. (1) Zir Ingot (2) Zirconium thop Stock (3) Rod (4) 3" Dismeter Billets (5) 3" Dismeter Billet (tube) (6) 3-1/4" Dismeter (7) (8) Top End Strips (9) Bottom End Strips (10) Tabs 	1,348 # 999 # 830 # 1,208 # 702 # 603 # 525 # 196 pc. 53 pc. 123 pc.
 c. (1) Copper Tube .890" O.D. x .032" Wall !(2) Cu. Tube .187" O.D. x .025" Wall (3) Cu. Rod .890" Diameter (4) Cu. Rod 27/32" Diameter (5) Cu. Nose Plugs 3" Diameter (6) Cu. Sleeves .890" O.D. (7) Cu. Tube .640" O.D. 	7,847 ft. 5,354 ft. 250 ft. 1,159 ft. 50 pc. 13,404 pc. 120 pc.

Status - at M&C Nuclear*

Cognizant Kequester (Thada Astronom

P. O. BOX 1072 SCHENECTADY, NEW YORK

Date: July 10, 1959

To: MSC Nuclear, Inc.

Attention: Mr. R. M. Dunlop

Subject: Status of Government Furnished Material. Information to Vendor No. SCH-59-270 - IV-16

Reference:

PAGE #4

3. Reference 3 SCR-59-270 IV-9 (Alpha Count Standards).

Standard Identification

a-1-388-8 Size 4" x 4" Status - at MBC Nuclear b,1-4480 KMS-22 Size 42" x 42" Status - at MBC Nuclear Status - at MBC Nuclear

4. Reference 4 - SCH-59-270 IV-10 (Fuel Element Surface Standard)

a-1 set - Fuel Element Surface Standards SCH-59-270 Status - at MBC Nuclear*

It is requested that MaC Buclear, Inc. refer to the above items marked with an asterisk (*) (Items 1a, 1b, 1f, qty. 6, 1g, 1h, 1i, qty. 6, 1k, 1l, 1m, 1n, 2a, 3a, 3b, and 4a) and advise KAPL if they agree that material indicated is available at MAC Buclear for use on subject contract.

It is also requested that MAC Nuclear, Inc. advise KAPL the required dates for all other material listed above as Government furnished.

This information does not relieve the Contractor from fulfilling his obligation under this Contract.

This information does not affect the scope of the Contract and in no way suthorizes any increase in cost or change of delivery of the equipment being purchased under this Contract.

Cognizant Requester Fischer Hisporet

KNOLLS ATOMIC POWER LABORATORY SCHENECTADY, NEW YORK

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Action Required by C & P Type Contract Source of Funds Shop Order No. Dollars, This Change (Est.) Dollars, Presently Committed (SIGNATURES REQUIRED) Financial Representative Approved. 7th Level Manager Gth Level Manager Sth Level Manager General Manager General Manager Buttion: Butter (Lt. Cmdr.) Dersee Dooman Biburget Status Sta			Information
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Cognizant Requester: R.C. myle R. l. fibelin

SCITENECTADY, NEW YORK

Date: July 17, 1959

To: M & C Kuclear, Inc. P. O. Box 898 Attleboro, Massachusetts

Attention: Mr. R. M. Dunlop

Subject: M & C SAMPLING PLAN (REVISION 1) INFORMATION to Vendor No. SCH 59-270 - IV 21

Reference: (a) SCH 59-270 - IV #1 dated May 20, 1959 (b) M & CN Request Form KAPL-97 #49 dated July 2, 1959

Request Form #49 submitted Sampling Plans A, B and C dated June 30, 1959 for approval. The three (3) plans are approved with the following comments:

NOLLS ATOMIC POWER LABORATORY

P. O. BOX 1072

- I. Sampling Plan A Approved without comments.
- II. Sampling Plan B
 - a) It must be understood that the submitted alpha count sampling plan is considered adequate as long as the count rates are generally low. Higher sampling rates may be required in order to meet specification requirements if contamination levels run higher than presently anticipated.
 - b) The specific corrosion tested area that will be counted must be specified in the Manufacturing Process Sheets (reference a). It is not sufficient to state in the M.P.S. that alpha counting will be performed to SI 500 VA. The probe location for each component must be specified and shall be submitted for review and approval.
- III. Sampling Plan C All comments stated in IV #1 Section III are applicable:
 - a) Item I.1
 - b) Item I.2

MDT is defined as Mon-destructive Tests and thus does not single out X-ray, Eddy Current and Ultrasonic tests.

(continued on page 2) Cognizant Requester: R.C. Trayle/B.C. flim NOLLS ATOMIC POWER LABORATORY P. O. BOX 1072 SCI:ENECTADY, NEW YORK

Page 2

Date: July 17, 1959

To: M & C Nuclear, Inc. P. O. Box 898 Attleboro, Massachusetts

Attention: Mr. R. M. Dunlop

Subject: M & C SAMPLING PLAN (REVISION 1) INFORMATION to Vendor No. SCH 59-270 - IV 21.

Reference:

III. Sampling Plan C - (continued)

c) Item I.2, II and III

It is understood (3-KPP 37-2) that destructive test elements must have completed all manufacturing and inspection operations.

d) Item II.1

It will require prior KAPL concurrence, if it is found necessary to select additional elements for destructive sampling.

This information does not relieve the Contractor from fulfilling his obligation under this Contract.

This information does not affect the scope of the Contract and in no way authorizes any increase in cost or change of delivery of the equipment being purchased under this Contract.

Cognizone Requestor: R.C. myler / P. C. fibelin

SCHENECTADY, NEW YORK

Date: August 4, 1959

To: M& C Huclear, Inc.

Subject: APPROVAL TO MELT ZIRCALOY MATERIAL FOR SCH 59-270 INFORMATION to Vender No. SCH 59-270 - IV 25

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

Information Fixed Price

None

(SIGNATURES REQUIRED)

Financial Representative

Approved: 7th Level Manager

6th Level Manager

5th Level Manager.

4th Level Manager

General Manager

DISTRIBUTION: SM Bishop JW Boller (Lt. Cmdr.) **CF** Derse AN Doonan WC Gibelius JV Goldthwaite GA Hanlon FC Hanny FFD. JF Kagay 0 GR Kingsbury CE Lacy HA Loucks HR Pageno (2) WET WJ Prime S Sturges RC Traxler / WW Ward (2)

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AUG 1 8 1959 F. C. HANNY

Cognizant Roquestor R. C. Tryler M. C. Giblin

NOLLS ATOMIC POWER LABORATORY P. O. BOX 1072 SCHENECTADY, NEW YORK

Date: August 4, 1959

Io: M&C Huclear, Inc. P. O. Box 898 Attleboro, Massachusetts

Attention: Mr. R. M. Dunlop

Subject: APPROVAL TO MELS: ZIRCALOY MATERIAL FOR SCH 59-270 INFORMATION to Vendor No. SCH 59-270 - IV 25

Reference: (a) SCH 59-270 - IV #3, dated June 4, 1959 (b) M & CN Request Form KAPL-97 #54, dated July 10, 1959

M & CN Request Form $\frac{4}{7}$ submitted for approval the changes that will be incorporated in Mallory-Sharon Zirconium Fabrication Qualification Report as a result of IV $\frac{4}{7}$ (reference a).

The changes as sutlined in Request Form #54 (reference b) are approved with one exception:

Comment #12 - Eddy current test used on round stock up to 2" diameter using 58 - 60 k c frequency will show surface defects within 65 mils of the O.D. of the rod. Further tests such as ultrasonic testing or x-ray will be required to properly evaluate ber stock.

This information does not relieve the contractor from fulfilling his obligation under this contract.

This information does not affect the scope of the contract and in no way authorizes any increase in cost or change of delivery of the equipment being purchased under this contract.

Cognizant Requestor: R.C. Tryle K

CNOLLS ATOMIC POWER LABORATORY SCHENECTADY, NEW YORK

Date: August 20, 1959

To: M& C Nuclear, Ins.

Subject: APPROVAL OF ALPHA ACTIVITY CONTROLS & COUNTING PROCEDURES INFORMATION to Vendo: No. ECH 59-270 - IV 33

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

Information Fixed Price

(SIGNATURES REQUIRED)

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Financial Representativo

Approved: 7th Level Manager 6th Lovel Manager

5th Lovel Manager

4th Level Manager

General Manager

BISTRIBUTION JW Boller (Lt. Cmdr) CF Derse AN Doonan WC Gibelius JV Goldthwaite GA Ranlon IC Hanny JF Kagay C FK. GR Kingsbury CE Lecy HA LOUCKE ER Pagano (2) MKR WJ Prime 8 Sturges RC Traxler (WW Ward (2) SM Bishop AJBROWN PL Eisenscher

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Cognizant Requester: R.C. Trasler/ L. P. filling

NOLLS ATOMIC POWER LABORATORY P. D. BOX 1072 SCHENECTADY, NEW YORK

Dete: August 20, 1959

To: M&C Huclear, Inc. P. O. Box 898 Attleboro, Massachusetts

Attention: Mr. R. M. Dunlop

Subject: APPROVAL OF ALPHA ACTIVITY CONTROLS & COUNTING PROCEDURES INFORMATION to Vendor No. SCH 59-270 - IV 33

Reference: (a) M & C Ruclear Request Form KAPL 97 - #71 dated 8/4/59
 (b) N & C Ruclear Report No. 1009, Rev. 1 "Alpha Activity Controls and Counting Procedures" dated July 31, 1959

M & CN Request Form $\frac{4}{7}$ submitted reference (b) for approval. This report on M & CN alpha activity controls and counting procedures is approved after incorporation of the following comments:

a) Section I.B.4 and I.B.5

The specific location of the "poppy probes" must be specified in the applicable Process Sheets for the part. The modified MPS must be submitted for review and approval.

- b) Section II.D.5.e (1) page 12 The ling "Given,1 ppm = 0.00643 dpm/cm²" is not consistent with 8 ppm = 0.051 dpm/cm² reported in Section II.E. Section II.D.5.e must be corrected.
- c) The conclusion in paragraph II.D.5.f is certainly valid, but does not aid in clarifying the report. It must be understood that the KAPL supplied calibration standards (reference: SCH 59-270 - IV #9, Rev. 1) must be used as such. Although these standards cannot be used directly as acceptance standards, interpolation of the measured values shall be the acceptance level for alpha contamination as defined in the specifications.
- d) Section II.Z
 - 1) The operating instructions shall be incorporated in the S.I. and / or MPS.
 - 2) A minimum of 50% efficiency for any one probe shall be specified.

(continued on page 2)

Cognizant Requestor: R.C. Trusher / 4. P. Gibilin

P. O. BOX 1072 SCHENECTADY, NEW YORK



Page 2

- Date: August 20, 1959
- To: M&C Muslear, Inc. P. O. Box 898 Attleboro, Massachusetts

Attention: Mr. R. M. Dunlop

Subject: APPROVAL OF ALPHA ACTIVITY CONTROLS & COUNTING PROCEDURES INFORMATION to Vendor No. SCH 59-270 - IV 33

Reference:

- d) Section II.E (continued)
 - 3) As reported, the present plan is to reject components having activity levels greater than 0.070 dpm/cm². This is most advisable. It is not stated what the disposition of the components will be that have an activity level less than 0.070 dpm/cm². It is the responsibility of M & C Nuclear to meet contractual specification requirements at the completion of the contract. To meet this requirement, components that exceed the 8 ppm activity level as defined and interpolated from the KAPL supplied calibration standards, should be recorded on an internal deviation notice.
- e) The variability of the proportional counter data on **section of the** "outlying" source data said to be caused by timer failure, and the abnormally low source count caused by supposedly misadjustment of high voltage, point out the need for a very tight control of the proportional counting equipment. A source counting control chart is, therefore, strongly recommended.
- f) Section III.F

Same comments as section d 1 and d 3 of this IV.

g) S.I. #500 Section V C

No justification data has been submitted for the proportional counter designated APC-3. This shall be done and approved in the event that this counter will be used for SCH 59-270.

This information does not religve the contractor from fulfilling his obligation under this contract.

This information does not affect the scope of the contract and in no way authorizes any increase in cost or change of delivery of the equipment being purchased under this contract.

Cognizant Requester: R. C. Trayle A.P. fibilin

SCHENECTADY, NEW YOR:

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\smile	Dale: September 28, 1959	9	
	Ta N& C Huclear, Ind	3.	
	Subject: SUPPLY CONTRACT	59-270 - APPROVAL OF MPS : icr No. SCH 59-270 - IV 4	
		Action Required by C & P Type Contract	Information Fixed Price
		Source of Funds	
		Shop Order No. Dollars, This Change (Est.)	None
		Dollars, Accumulative (Est.)	
		Dollars, Presently Committed	
			(SIGNATURES REQUIRED)
		Financial Representative	
		Approved: 7th Level Manager	
		6th Level Manager	~
		5th Level Manager	
		41h Level Manager General Manager	**************************************
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			T. C. HANNY

Cognizant Requester: R. C. Kally

KN S ATOMIC POWER LABORATORY P. O. BOX 1072 SCHENECTADY, NEW YORK

Date: September 28, 1959

To: M&C Nuclear, Inc. P. O. Box 898 Attleboro, Massachusetts

Attention: Mr. R. M. Dunlop

Subject: SUPPLY CONTRACT 59-270 - APPROVAL OF MPS 109F414-4 INFORMATION to Vender No. SCH 59-270 - IV 42

Reference: (a) M & CN Request Form KAFL-97 #99 (b) IV #34

M & UN Request Form KAPL-97 #99 was used to transmit M & CN Manufacturing Process Specification 109F414-4 which was revised in compliance with IV #34. KAPL concurs that the revised MPS 109F414-4 complies with the requirements of IV #34. The MPS 109F414-4 is hereby approved for S3G Cores 1c and 1d manufacture.

This information does not relieve the contractor from fulfilling his obligation under this contract.

This information does not affect the scope of the contract and in no way authorizes any increase in cost or change of delivery of the equipment being purchased under this contract.

Cognizant Requester: .

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QUILS ATOMIC POWER LABORATORY SCHENECTADY, NEW YORK

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	INFORMATION to Very	dor No. BCH 59-270 - IV 52	
		Action Required by C & P Type Contract Source of Funds Shop Order No. Dollars, This Change (Est.) Dollars, Accumulative (Est.) Dollars, Presently Committed	Information Fixed Price
			(SIGNATURES REQUITED)
		Financial Representative	
		Approved: 7th Level Manager	
		6th Level Manager	
		5th Level Manager	
		4th Level Manager	
		General Manager	
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- 8 Sturges JDL WW Ward (2)
- AD Whitehead (Lt. Cmdr.)

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F. C. HANNY

m Cognizant Requester:

K. JLLS ATOMIC POWER LABORATORY P. O. BOX 1072 SCHENECTADY, NEW YORK

1

Date: October 22, 1959

To: M & C Euclear, Inc. P. O. Box 898 Attleboro, Massachusetts

Attention: Mr. R. M. Dunlop

Subject: SUPPLY CONTRACT SCH 59-270 - APPROVAL OF M & CN MANUFACTURING PROCESS SHEETS INFORMATION to Vendor No. SCH 59-270 - IV 52

Reference: M & CN Request Form #109

The reference Request Form was used to transmit M & CN Manufacturing Process Sheets for KAPL acceptance. The following Manufacturing Process Sheets are approved without comment:

844 B 495	P-1	844B782	P-1
844 B711	P-1	8448782	P-2
844 B 781	P-1	95 3B101	P-1

Manufacturing Process Sheet UC-3 is not approved until suitable limits are described on a second of the plug weld is not gross bending is permissible since a full inspection of the plug weld is not possible.

This information does not relieve the contractor from fulfilling his obligation under this contract.

This information does not affect the scope of the contract and in no way authorizes any increase in cost or ghange of delivery of the equipment being purchased under this contract.

Furl Ke Cognizant Requester

SLH 59-270 No.2

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COPY

July 8, 1959

M & C Nuclear, Inc. Post Office Box 898 Attleboro, Massachusetts

Attention: Mr. R. M. Dunlop

Gentlemen:

Your letter of July 1, 1959, Attention: Mr. W. J. Prime, concerning "residues" in Clause 38(a)(2) and Clause 38(d)(1) of the General Provisions to Supply Contract SCH-59-270, was referred to this office for reply.

We concur with M&C Nuclear's interpretation of these Clauses and wish to have the same practices used as in Contract SCH-58-41 with regard to these "residues".

Very truly yours,

D. W. Short, Acting Director Materials Division

CC: W. J. Prime W. W. Ward

COPY

June 2, 1959

DISTRIBUTION:

A.J. Brown A. E.W. Bunke C.F. Derse A.N. Dooman (3) Q. D. J. Bricson W.C. Gibelius J.F. Goldthwaite W.H. Griffith G.A. Hanlon F.C. Henny J.F. Kagey (3) OFK G.R. Kingsbury C.B. Locy H.A. Loucks H.R. Pagano (2) W.J. Prime C.E. Smith D.C. Stevart J.A. Steele S. Sturges 6 R.C. Traxler G.V. VonStetina

W.W. Ward (3)

General Electric Company JLLS ATOMIC POWER LABORATORY Schenectady, New York

June 2, 1959

To: DISTRIBUTION

Subject: TRANSAITTAL OF DRAWINGS TO M & C NUCLEAR, INC. FOR SUPPLY CONTRACT SCH 59-270

Reference: (1) List of Specifications and Drawings for S3G Core 1 Type Reactor Cells

To make certain that M & C receives all drawings (reference 1) and the latest revisions of the drawings, which pertain to 83G Type 1 Cores c and d and Supply Contract SCH 59-270, the following plan will be initiated:

- 1) One reproducible drawing will be mailed by the Engineering Data Approval Processing Group to M & C Buclear. Inc.
- 2) At the time a drawing is revised and issued, the Engineering Data Approval Processing Group will sutcastically mail one reproducible drawing to M & C Muclear, Inc.
- 3) Each abipment of reproducible drawingsmust be forwarded to M & C Nuclear by a cover letter, which is prepared by the Engineering Data Approval Processing Group.

The distribution of this letter shall be as follows:

M & C Huclear, Inc. (Attn. R.H. Dunlop) (3) w/sepia encl.

KAPL:	A.J. Brown	(1) v/o encl.
	A.N. Dooman	(1) v/o encl.
	J.F. Kagay	(1) v/o encl.
	H.A. Loucks	(1) w/o encl. (1) w/o encl.

The transmittal letter shall state that the drawings are transmitted for information only and specific instructions will be forthcoming.

- 4) M & C Nuclear, Inc. after receipt of these reproducible drawings is not permitted to use these drawings unless so specified. This will be done by IV's, Modifications to the Contract and the Supply Contract itself.
- 5) It is the responsibility of SAR Core 1 Mechanical Design Group to inform the Engineering Data Approval Processing Group of any drawing additions or deletions to the drawing list (reference 1).

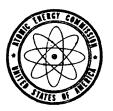
The above outlined procedure will assure our customer and KAPL that M & C Nuclear automatically receives the most up to date drawings. In addition, it will eliminate the possibility of the vendor being instructed to build the product to a certain drawing revision without having received a copy of this revision.

F. C. HANNY

RECEIVED W. C. Gibilius 1959 NUCLEAR CORE PRODUCTION ENGINEERING E-1 Mezz. - E.T. 322/7160

WCGibelius/s

ON: CED



ADORESS REPLY TO: THE MANAGER U. S. ATOMIC ENERGY COMMISSION P. O. BOX 188 SCHENECTADY, NEW YORK AND REFER TO:

UNITED STATES ATOMIC ENERGY COMMISSION SCHENECTADY, NEW YORK

LED FUT /HSD

H.S.DORR

OFETCESS

0-235.

256 7/13

TO ARE - NGE FOR RETURN

July 6, 1999

X & C Muclear, Inc. Post Office Ber 898 Attleboro, Magnelmette

Attention: Mr. X. C. Deffy

Gent1.mmt:

Reference is made to my latter of May 12, 1959 which allocated of reactor grade streaming goage for work to be performed under Sovely Contract No. 808-59-270,

Is accordance with the provisions set forth is Associated No. 1, dated June 11, 1959, to the subject contract, reactor grade strooming sponge is hereby deducted from the allocation specified in Clause 98(a) of the General Provisions of the contract. The revised allocation is now of sponse and the details regarding delivery should be worked out directly between MiC and Mallory Sharton.

Amendment No. 1 also provides for a reduction in the quantity of U-235 in the amount of 3.5 kilograms, and the original contract fimre i CODY of this letter the Maolls Atomic Power Laboratory is requested to errange with you for the return of the furnished U-235 which is in authorized by the contract. escess



CC: E. Dunlop, MC Y. C. Hammy, KAPL Very truly yours,

D. W. Short, Acting Director Materials Division

MD: DHB

June 30, 1959

10. Com 10 Com 10 Com

N & C Huclasr, Inc. Post Office Dax 898 Attlaboro, Massachusetts

Attention: Mr. K. C. Deffy

Guntless:

In accordance with the requirements set forth in Article 36 of Supply Contract He. SEM-59-270, the following achedules must be sobuitted to this office within 30 days after completion and delivery of the S35 Type I Cells.

Uranium Willightion Schodule (Weight in Grons	Urenet and	Philipption	Schotule	(Weight	in Grees
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- 1. Total (-235) Hoseived
 - a. From external sources b. From other jobs
- 2. Shipments and Trunsfors
 - a. Product
 - b. Suspins
 - e. Virgin meterial
 - d. Other
 - e. Berty for successy
- 3. Recep of meterial remaining at completion of work
 - a. Virgin meterial
 - b. Ro-unible material
 - c. Over-rea of product
 - L. Recoverable scrup (furnish related 450's
 - vith scheinle) e. Unrecoverable scrap (furmish related 450's with subshile)

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	Materials		Materials			
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DATE 🏲	_6/30/59	6/30/59	6/30/59	6/30/59		<u></u>

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AUG 7 1959

F. C. HANNY

Mr. K. C. Darry

Anne 30, 1959

Special Reactor Reterials Otilization (Neight in Founds)

1. Zireanium and Eirenlay

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- a. Total quantity received, including internal treasfers
- b. Total quantity in finished preduct

- a. Neterials remaining at completion of job list by form, size, weight, identification
- 2. Martulus
 - a. Total quastity received, including internal transfers
 - b. Total quantity in finished product
 - c. Longes
 - d. Material remaining at completion of job list by form, aise, and weight

It is requested that both the 86 and U-235 weights be reflected on the urandom schedule, and that all astedules be furnished in five oughes. If you should have any quantions, we will be glad to discuss them with you.

Very truly jours,

D. 9. Short, Acting Director Materials Division

OC: No. R. Danley, Mc

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Mr. W. J. Prime Mr. W. W. Ward

OFFICE > SURNAME > DATE > DATE > Porm ABC-818 (Bev. 9-53) > 4. 607 manter mining grates 10-607(6)-4

Ut:LE KNOLLS ATOMIC POWER LABORATORY EPRODUCED AT GOVT EXPEN GENERAL ELECTRIC SCHENECTADY, NE SCH 59.27 NATING REPROCESS DEFT AT RECOMMENDER 4, 1959 MLC SUBJECT:

Mr. F. C. Hanny Room 128 BLDG. C

As per our agreement of 11/4/59, your office will take the necessary action to instruct M & C Nuclear, Inc. relative to the disposal of scrap enriched element sections.

NUCLEAR CORE PRODUCTION ENGINEERING E-1 Mezz. - Ext. 322

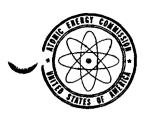
AJBrown/s

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NOV 5 1959 F. C. HANNY

MC NUC		. شرخ ۱۳	Hanny
JEST FOR CHANGE CLARIFICATION	WAIVER	APPROVAL AN	
TO Mr. A. J. Brown Knolls Atomic Power Laboratory General Electric Company P. O. Box 1072 Schenectady, N. Y.		ROJECT DESIGNATION KAPI-97 USTOMER ORDER NO. SCE 59-270 NAC NUCLEAR, INC. KAPL-97 #129	DATE & 10/22/59 13
AND EXPEDITIOUSLY. (DATE) CUSTOMER SPECIFICATION OR PART NAME.		ON. IT IS REQUESTED TH IRED ACTION TO BE TA	
ELEMENT EVALUATION CUSTOMER SPECIFICATION OR PART NUMBER 3KPP37-2 E.3			
Vour decision as to the disposition of all including those sectioned, is hereby request.	the elements (S	FER TO ANY ATTACHED DAT	
	R. R. (ECEIVED AT KAPL UL, 20 1959 IKAXLER	

EFFECT ON PRICE		EFFECT ON DELIVERY		
RECOMMENDATION INITIATED BY C. R., FATRES James APPROVED BY DIOTRAT MERICAN	DATE 10/22/59 DATE 10/22/59	PLEASE REPLY TO (TYPE NAME) CONTRACT ADDINGS PATOR R. C. White	DATE 10/22/59	
ACTION TAKEN (TO BE FILLED IN BY ADDRE THE REQUEST IS APPROVED AND OF THE REQUEST IS NOT APPROVED OTHER We acknowledge recein	FICIAL AUTHOR		59	
	A.J.Brown	TURES		



ADDRESS REPLY TO: THE MANAGER 17. S. ATOMIC ENERGY COMMISSION P. O. BOX 1885 SCHENECTADY, NEW YOR AND REFER TO: NO LETY

UNITED STATES ATOMIC ENERGY COMMISSION SCHENECTADY, NEW YORK

ØR: WX1/HSD ØRe energefon Shipment. J

EPRODUCED AT GOVT EXPENSE # 1

January 6, 1960

M & C Muclear, Inc. P. O. Box 898 Attleboro, Massachusette

Attention: Mr. K. C. Duffy

Gentlement

Reference is made to Supply Contract SCH 59-270, Amendment 3, which provides for additional enviceed uranium.

In accordance with Glause 38 of the General Provisions of the subject contract, you are hereby authorized an additional 7.h kg of enriched wranium contained U-235 in the form of William nominal chop stock, The total authorized enriched urgnium is as follows:

> 138.62 kg of U-235 in the form of neminal chop stock 3.3 kg of U-235 in core alloy material

Arrangements have been made with KAPL to ship the additional material under Project h652-12 on January 11, 1960.

Very truly yours,

D. W. Short, Director Materials Division

CC: E. M. Dunlop, M & C ->F. C. Hanny, KAPL W. J. Prime, SNROO W. W. Ward, SNROO

RECEIVED

198. 7 St.

F. C. HANNY

		KNOU	S ATOMIC POWER	LABORATORY	
				NUCLEAR MATERIAL	S
		RI	ECEIVING INFOR	MATION	
or cont	ract No.	SCH-59-21 Inclear IN	10	RR I	No. 115930 No. MAC-SGE-693 Received 2-10-60
endor 11	4C /	Inclear IN	C.	101 P	ло <u>МАС-SGE-69</u> :
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FES 1 1 1950
F. C. HANNY

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KAP 3288 (3-58) REV. (I.V. PART 2)

Cognizant Requester: Karly

KNOLLS ATOMIC POWER LABORATORY P. D. BOX 1072 SCHENECTADY, NEW YORK

Date: December 30, 1959

To: M & C Muclear, Inc. P. O. Box 898 Attleboro, Massachusetta

Attention: Mr. R. M. Dunlop

Subject: M & C N "PROPOSED CERTIFICATION" INFORMATION to Vendor No. COMPACT SCH 59-270 - IV # 62

Reference:

The proposed certification statement per M & C N Request #113 is not acceptable to KAPL. The included statement is considered satisfactory and in line with contract requirements covered by:

- (1) Article 33 Supply Contract
- (2) Specification 3-KPP 37-2, Revision 5, Section J-1
- (3) Specification 3-KPP 37-3, Revision 6, Section J-1

The proposed certification is unsatisfactory because:

- 1. It certifies to the "best of our knowledge" -- KAPL requires "categorical certification" per contract specification.
- 2. This is an internal form to the Project Manager from the QC Manager.
- 3. This is based on KAPL review of M & C N Records and KAPL Inspections.

(Continued on page 2)

Andli Cognizant Requester

KNOLLS ATOMIC POWER LABORATORY P. D. BOX 1072 SCHENECTADY, NEW YORK

Date: December 30, 1959

To: M & C Nuclear, Inc. P. O. Box 898 Attleboro, Massachusetts

Attention: Mr. R. M. Dunlop

Subject: M & C N "PROPOSED CERTIFICATION" INFORMATION to Vendor No. CONTRACT SCH 59-270 - IV #62

Reference:

18

M & C Nuclear, Inc. P. O. Box 898 Attleboro, Massachusetts

Date

To: Manager SNROO, AEC

Attention: Contracting Officer (Contract No., Equipment description, identification)

M & C N guarantees that material and workmanship meet the requirements of subject contract, including the specifications made a part of this contract; and further, guarantees the items referenced above has been manufactured in accordance with the contract drawings, specifications, and government approved processes, except as waived and concurred with by the government.

M & C N QC Manager

M & C N Project Manager

Verified

KAPL NCQA Representative

Cognizant Requester: (Continued on page

Page 2

KNOLLS ATOMIC POWER LABORATORY P. O. BOX 1072 SCHENECTADY, NEW YORK

Page 3

Date: December 30, 1959

To: M & C Nuclear, Inc. P. O. Box 898 Attleboro, Massachusetts

Attention: Mr. R. M. Dunlop

Subject: M & C N "PROPOSED CERTIFICATION" INFORMATION to Vendor No. CONTRACT SCH 59-270 - IV # 62

Reference:

....

This information does not relieve the contractor from fulfilling his obligation under this contract.

This information does not affect the scope of the contract and in no way authorizes any increase in cost or change of delivery of the equipment being purchased under this contract.

Chothy Cognizant Requestor:

INOLLS ATOMIC POWER LABORATORY SCHENECTADY, NEW YORK

Date: April 22, 1960

To: M& C Muclear, Inc.

Subject: SUPPLY CONTRACT 59-270 -Instruction to Vondor No. SCH 59-270 - IV #71

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

Instruction	 	
Fixed Fee	 	
None	 	

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Programming

Cost and Budget Control

Approved: 7th Level Manager

6th Level Manager

5th Level Manager

4th Lovel Manager

General Managor

Betraylin

(SIGNATURES REQUIRED)



F. C. HANNY

Cognizant Requester

DISTRIBUTION: KC Arnold (M&C) SH Bishop AC Bonk HF Brown **CF** Derse AN Doonan GA Eanlon FC Harmy JF Kagay GR Kingsbury CE Lacy RA Leavitt HA Loucks HR Pagano WJ Prime Sturges TA 8 RC Traxler WW Ward (2) AD Whitehead (Lt.Cmdr.)

BF COWELL KAP 3285 (10-58) REV. (I.V. PAR) 2)

REPRODUCED AT GOVT EXPENSE # 18

DLLS ATOMIC POWER' LABORATORY P. D. DOX 1072 SCHENECTADY, NEW YORK

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Data: April 22, 1960

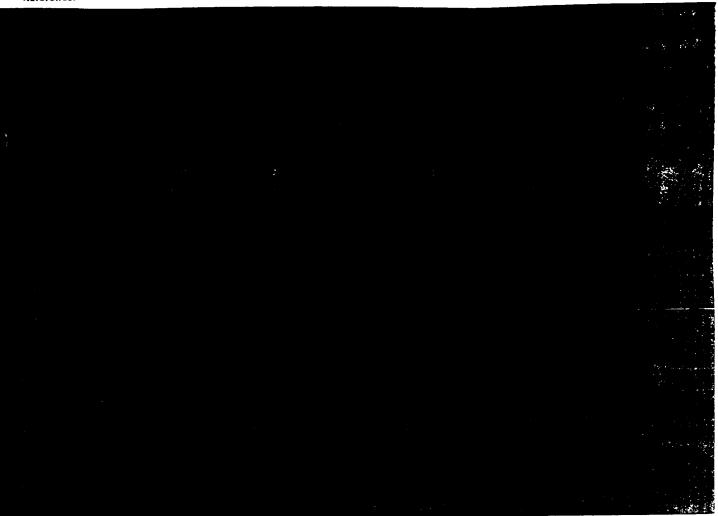
To: M&C Huclear, Inc. P. O. Box 898 Attlecoro, Mass.

Attention: Mr. R. M. Dunlop

Subject: SUPPLY CONTRACT 59-270 -Instruction to Vendor No. SCH 59-270 - IV #71

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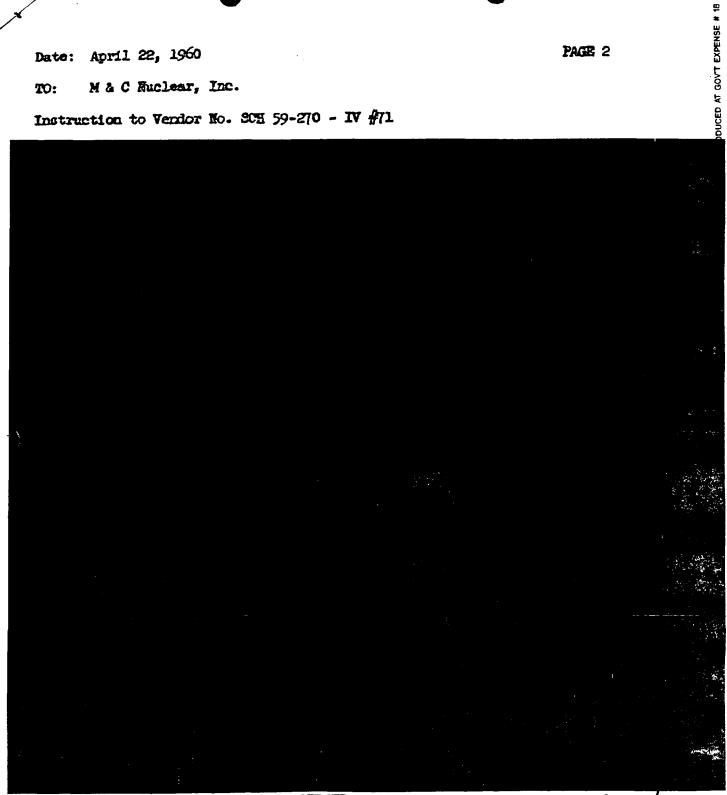


Bram Thallul Cognizant Requested

Date: April 22, 1960

M& C Ruclear, Inc. TO:

Instruction to Vendor No. SCH 59-270 - IV #71



RECEIPT OF THIS IV MUST BE ACKRONIEDGED.

Cognizant Requester:

Mu

(Continued on Page 3)

PAGE 2

PAGE 3

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Date: April 22, 1960

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To: H & C Nuclear, Inc.

Instruction to Verder No. SCH 59-270 - IV #71

This instruction does not relieve the contractor from fulfilling his obligation under this contract.

This instruction does not affect the scope of the contract, and in no way authorizes any increase in cost or change of delivery of the equipment being purchased under this contract.

(Qraf MM Cognizant Requester!

$\widehat{\bullet}$

Date: August 8, 1960

To: M&C N, Attleboro, Mass.

Subject: Certification 365 Core Alloys Item 5D of Acontinent #4 Contract SCH 59-270 Instruction to Vendor No. #86 - Contract SCH 59-270

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

AD Whitehead (It. Cmdr.)

Fixed Price		 	
	<u> </u>	 	
None		 	

(SIGNATURES REQUIRED)

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

DISTRIBUTION: KC Arnold - M & C N SM Bishop AC Bonk AJ Brown BF Covell CF Derse AF Doonan FC Hanny JF Kagay GR Kingsbury CE Lacy RA Leevitt IM Loeb HA Loucks WJ Prime S Sturges ME Thiebaud RC Traxler WW Ward (2) KAP 3288 (10-58) REV. (1.V. PART 2)

RECEIVED AUG 12 1960 F. C. HANNY.

E Thibaud 14 Cognizant Requestor:

August 8, 1960

To: Metal & Controls Nuclear, Inc. Post Office Box 898 Attleboro, Massachusetts

Artention: Mr. R. M. Dunlop

Subject: Certification 365 Core Alleys Item 5D of Amendment #4 Contract SCH 59-270

NOLLS ATOMIC POWER LAECRATOR P. O. BOX 1072

SCHENECTADY, NEW YORK

Instruction to Order Mc. #86 - Contract SCH 59-270

Reference:

Date:

M & C N original certification including government approved deviations & waivers is acceptable for this contract.

Cognizant Requester: ME This Paul

Al telegation Schedule regesteted ken clause #38 Bragnaph F' Contract By & W ahart on a 130/59. al notified KET '0/4/60 Les supply contract the 57-20 except for some small and pole is complete. 35 cella have been shipped from 2010 g/29/60 lassda This and because we could like to cluss up all loose ends please see what you this can do about the following: 1) Obtaming a mylete listing of all governant ound moterials with a recommended. disposition: Particularly, 45, 1, and parts frabruated from zercaty colucte helorys to the government. 2) Cotain listing of government allocated Smaturals whithis a not proved by MICH. 3) Recommend or take appropriate steps to E clear up any proplems with special maturely Such as rods etc 4) Neep us camplify advised as to the type

M & C NUCLEAR, INC.

ATTLEBORO, MASS.

October 7, 1960

To:	Mr.	Thomas	Kissinger
	KAP]	ն	

From: K. C. Duffy

SUBJECT: SPECIAL NUCLEAR STATUS REPORTS

Attached are Special Nuclear Status Reports for:

- Contract SCH-59-270 (KAPL-97) Hafnium Final Report AUDITED & FOUND CORRECT 10/12 KEO Disposition desired for material on hand at M & C. TWK'S LETTER TO AF. Corrected M.T.C. No. M & C 79A attached
- Contract SCH-60-16 (KAPL-108) Zr (KAPL-149) Zr Final Report Disposition desired for material on hand at M & C.

Contract NPD-44073 (KAPL-117) Zr

Final Report

Contract NPD-44723 (KAPL-121) Zr

Contract NPD-44-770 (KAPL-136) Zr Final Report Letter to Mr. L. E. Duran, reference material burned, attached.

Very truly yours,

OCT 10 1960

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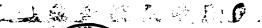
K.C. Duffy ' SS Materials Representative

F. C. HANNY,

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UNITED STATES ATOMIC ENERGY COMMISSION SCHENECTADY, NEW YORK

ADDRESS REFLY TO: THE MANAGER U. S. ATOMIC ENERGY COMMISSION P.'O. BOX 100 EXTENDETADY, NEW YORK



September 27, 1960

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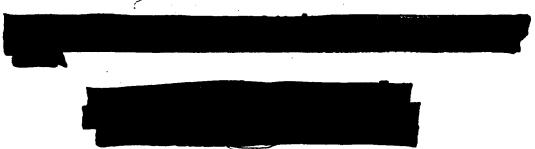
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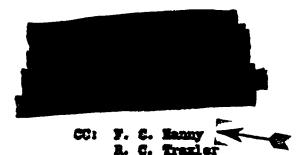
Attention: Mr. L. M. Loob

Gentlemons

Reference is made to my letter of September 21, 1960 with the enclosed copy of the Section State State State State from N & C Buclear, Inc., file: KAFL-97, which detailed the unit cells, including the contents thereof, which were fabricated under Contracts 202 59-270, 202 58-41, and 202 58-237.



Please make these changes in your copy of the H & C Muclear, Inc., letter.



Very truly yours,

D. W. Short, Director Naterials Division

RECEIVED

SEP 28 1960

F. C. HANNY

att: Entra/ LCY A SAL UNITED STATES ATOMIC ENERGY COMMISSION SCHENECTADY, NEW YORK tel militat va in in the state of the second U-245 202 2 ADDRESS REPLY TO: THE MANAGER COMMESSION P. G. BOX 100 COMMISSION COMMISSION CONTRACTOR AND AN OWNER ON EARING WARKER CONTRACTOR AND AN OWNER OF AN OWNER SCHENER COMMISSION OWNER OWNE THE OWNER The state we shall she all the state of the second se

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N & C Meleer, Inc. P. C. Box 898 Attleboro, Masachusetts

SEP 2 3 1960

REPRODUCED AT GOV'T EXPENSE #

Attention: Mr. George Williams

Signature & ATTAC. Sa antes

.Centlemen:

The Countigation has been authorized to transfer the SJG Cores 1C and 1D for the UMS Triton, SSR(N)586 and their contained special nuclear material, and two spare reactor cells and their contained special nuclear material, to the Department of the Mayr.

The Counission is making all arrangements to accept the cores and spares FUE your plant, Attleboro, Massachusetts. However, as required by Contract SCE 59-270, M & C Buelear, Inc. will, at its expense, load the reactor cells in the Government furnished shipping containers at your plant, provide transportation of these cells in their containers, and load these containers on Counission designated counton carriers at the Attleboro, Massachusetts railroad siding. These arrangements are based on the shipment taking place during the weektof September 25, 1960. An ANC representative will accept the cores and spare reactor cells on a courier receipt and in effect deliver them to the Havy. No Form ANC 101 will be issued for this transfer, but in like thereof, you will have as supporting data a signed courier receipt for the release of the material to the ANC and, you will also receive a copy of a latter

You are hereby suthorized to remove the special nuclear material from your investory records, under Project No. 4652-12, at the date of the transfer and to report the removal on line 35 of the Material Balance Report. A detailed sub-schedule to the MSR for the transfer must be



RECEIVED

SEP 23 1960

F. C. HANNY

Mr. George Williams



SEP 2 3 1960

AEPRODUCED AT GOVT EXPENSE 4 18

Solutived reflecting the Project No., title, and total uraning and U-R35 weights.

This office will make the mecessary arrangements, at a later date, for the transfer of the three spare fuel assemblies being fubricated under Contrast SCE 59-270.

We will be pleased to supply any additional details you may need in connection with this transfer.

n a l'Anglenni, com 25 le Ban - 199 La Leune, Mansance (194 Very truly yours,

Martice: Mr. George Milling.

Stanley W. Mitzueg Manager

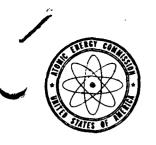
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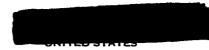
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ATOMIC ENERGY COMMISSION SCHENECTADY, NEW YORK

ADDRESS REPLY TO: THE MANAGER U. S. ATOMIC ENERGY COMMISSION P. O. BOX 1001 SCHENETADY, NEW YORK

NO TON ...

September 21, 1960

General Electric Company Enalls Atomic Power Laboratory Schemostady, New York

Attention: Mr. L. M. Loeb

Gentlemen:

Enclosed is a copy of a Confidential-Restricted Buta letter dated September 16, 1960 from N & C Muclear, Inc., file: KAFL-97, which details the unit cells, including contents thereof, which were febricated under Contracts SCH 59-270, SCH 58-41, and SCH-58-237.

This information is being furnished for KAPL's use in preparing the necessary certifications on the cells prior to transfer to the DOD-Mavy.

Very truly yours,

SEP 21 **1960**

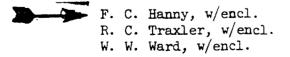
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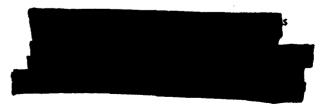
D. W. Short, Director Materials Division

Esclosure:

F. C. HANNY.

As above









M&C NUCLEAR, INC. (A SUBSIDIARY)

September 16, 1960

YILE: KAPL-97

The Manager U. S. Atomic Energy Commission Schemetady Maval Reactors Operations Office F. G. Box 1069 Schemetady, N. Y.

Attention: Mr. D. Short

Cantimen:

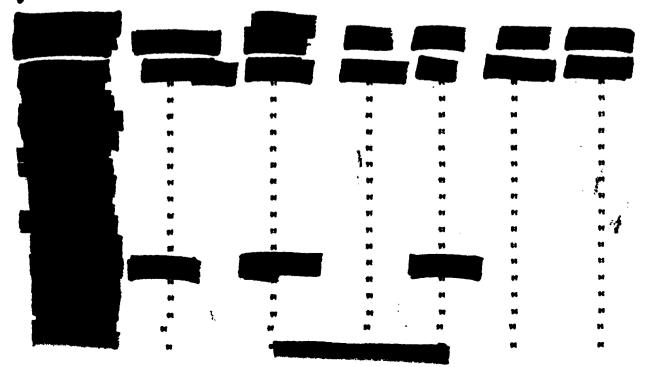
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Preparations are presently being made to ship the reactor calls on Supply Contract SCH 59-270, the reactor cells on Contract SCH 58-41 and the sector cells on Contract SCH 58-237 on September 29, 1960.

The cell identity to be included in this shipment, together with the applicable weights are listed below:

Total 112,000 Lbs.

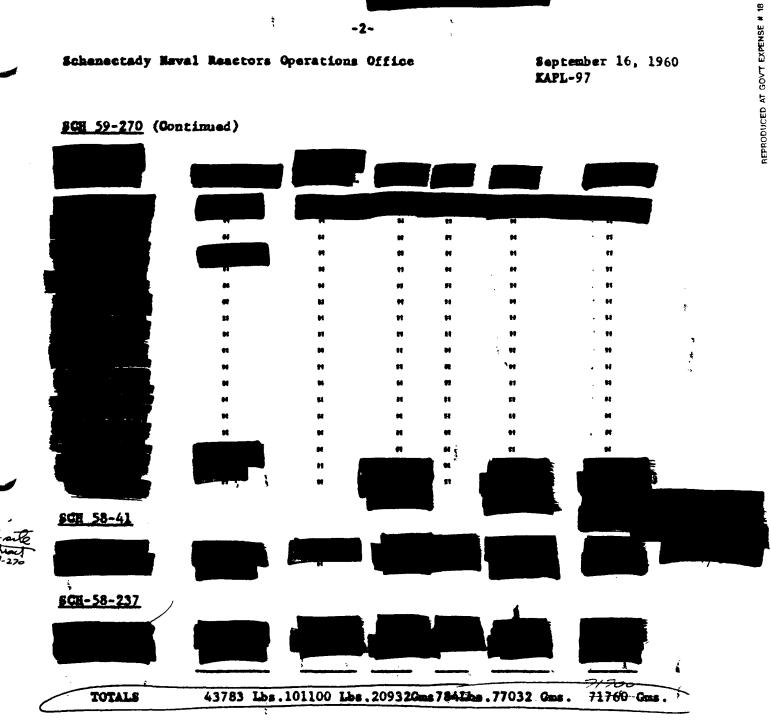
SCH 59-270





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As in previous shipments, if the above information is sufficient, we expect the Commission to issue a letter of authorization for shipment and necessary courier receipt. If further information is necessary, please contact us.



Very truly yours,

R. M. Dunlop Project Manager



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REACTOR CELL LIST Attachment (a) - Certification Dated Sept. 21, 1960 Contract SCW 59-270

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EXPENSE UCED A

Presto C



Sheet 2 of 2

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ME The bauf M. E. Thiebaud, Engineer Core quality Engree. & Assurance NUCLEAR CORE QUALITY CONTROL



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

MD:WGM

UNITED STATES ATOMIC ENERGY COMMISSION SCHENECTADY, NEW YORK



RECEIVED

October 27, 1960

RECEIVED

007 28 **1960**

F. C. HANNY,

2 3 1960

B. H. CALDWELL

General Electric Company Knolls Atomic Power Laboratory Schenectady, New York

Attention: Mr. B. H. Caldwell

Gentlemen:

Reference is made to Mr. F. C. Hanny's letter of October 13, 1950, file: MA No. 192, subject "Hafnium Scrap-M & C Nuclear, Inc. - SCH 59-270", regarding the disposition of hafnium scrap located at M & C Nuclear, Inc. from Contract SCH 59-270. A listing of the hafnium scrap and its disposition is as follows:

l can hafnium fines	4.7 pounds - certified
l can hafnium shavings	6.7 pounds - certified
l box hafnium chunks	5.6 pounds - certified
l electrode stub	2.5 pounds - certification questionable
l can hafnium/zirconium sclids - mixed	3.0 pounds - non-certified
l barrel hafnium/zirconium fines - mixed	<u>38.0</u> pounds - non-certified

Use authority number H-900 to ship the 60.5 pounds of hafnium scrap consigning to Wah Chang Corp., Albany, Oregon, attention: Mr. S. Y. Yih. Transfer this material on material transfer certificates listing weights and categories as done in your Mr. F. C. Hanny's letter. The material transfer certificates should be marked to reflect that the 5.6 pounds of hafnium chunks are for use under Contract AT(36-1)-58 and the remaining 54.9 pounds of hafnium scrap are for use under Contract AT(36-1)-62. Analytical data for the hafnium chunks should be included with the shipment if possible to facilitate reprocessing.

Very truly yours,

fullhost

D. M. Short, Director Materials Division

CC: F. C. Hanny