

Superfund Records Center  
SITE: Shpuk  
BREAK: 11.1  
OTHER: 201719

NPD 40224 - 173C

SDMS DocID 000209719



KING IS ATOMIC POWER REACTOR  
P. O. BOX 1072  
SCHENECTADY, NEW YORK

REPRODUCED AT GOVT EXPENSE # 18

Date: December 31, 1958

To: MFC Nuclear, Inc.  
P.O. Box 898  
Attleboro, Mass.

Attention: Mr. W. Fuznok

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

Reference:

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

This IV supersedes and amends IV #3.

Proceed with this IV immediately.

[REDACTED]

All of the above material shall conform to KAPL Spec. KPM3-41, dated 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.

Cognizant Requester: *[Signature]*

(continued on Page #2)

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

Date: December 31, 1958

To: M&C Nuclear, Inc.

Attention: Mr. W. Paynton

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

Reference:

PAGE #2

Normal boron shall be used with loadings as specified above.

[REDACTED]

[REDACTED]

[REDACTED]

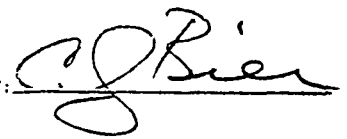
The method of measurement shall be subject to KAPL approval.

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. Adams shall have technical cognizance of this IV.

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

Cognizant Requester:



KNOLLS ATOMIC POWER LABORATORY  
SCHENECTADY, NEW YORK

Date: December 31, 1958  
 To: M&C Nuclear  
 Subject: Fuel - NPD-40224-K  
 Instruction to Vendor 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

Transmittal
Fixed Price
731-185
\$1,000.00

(SIGNATURES REQUIRED)

Financial Representative  
 Approved: 7th Level Manager  
 6th Level Manager  
 5th Level Manager  
 4th Level Manager  
 General Manager

\_\_\_\_\_  
 \_\_\_\_\_  
*Robert Brown* 12/31/58  
 \_\_\_\_\_  
 \_\_\_\_\_

DISTRIBUTION:

- R.C. Adams
- C.J. Bier
- H.F. Brown
- L.V. Kjar
- J.M. Mylroie
- W.A. Neisz - *wan.*
- J.S. Roicki
- C.E. Smith (2) *Ces/Py*
- S. Sturges
- W.J. VanKatten
- J.V. Goldthwaite
- E.A. Rufer
- A.B. Oppenheim
- W.W. Ward (2)
- C.S. Haugh
- W.H. Pappin
- H.R. Pagano (2)
- A. Levy
- A. Kephart (ARK) *12/31/58*
- L. MAISEL

Cognizant Requester: *Bier*

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

REPRODUCED AT GOVT EXPENSE # 18

Date: December 23, 1958

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

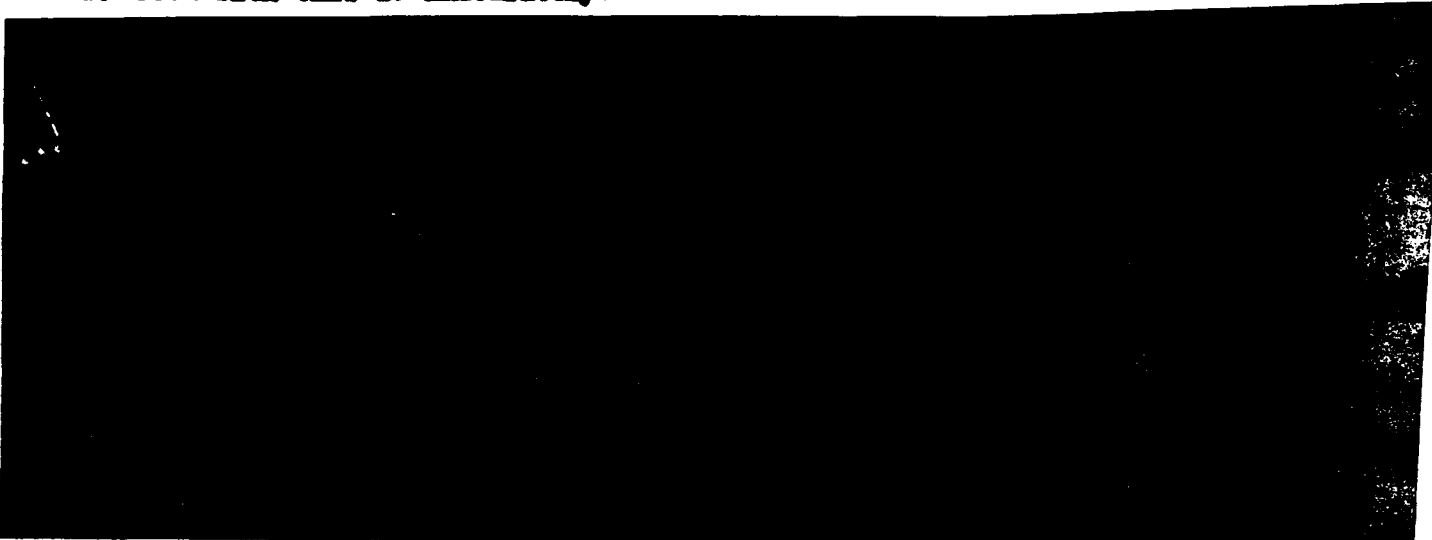
Attention: Mr. W. Paynton

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

Reference:

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

Proceed with this IV immediately.



All of the above material shall conform to KAPL Spec. SKPM3-41, Rev. 1, dated November 24, 1958.

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

Normal boron shall be used with loadings as specified above.

(continued on Page #2)

Cognizant Requestor: C J Bier

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

Date: December 23, 1958

To: MFC Nuclear, Inc.

Attention: Mr. W. Paynton

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

Reference:

PAGE #2

[REDACTED]

There is no requirement for hardness.

Conditions and edges shall be as follows: [REDACTED]

Flugging is not allowed.

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

[REDACTED]

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, seams, laps, pitting and foreign matter shall not be more than 0.030" in diameter and/or length - nor more than 0.005" in depth. Note: That no such defect shall be closer than 0.030"

(continued on Page #3)

Cognizant Requester: C J Bier / m

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

Date: December 23, 1958

To: M&C Nuclear, Inc.

Attention: Mr. W. Paynton

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

Reference:

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.

[REDACTED]

[REDACTED]

[REDACTED]

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. Adams shall have technical cognizance of this IV.

Cognizant Requester: C J Bier

ENROLLS ATOMIC POWER ASSOCIATION  
SCHENECTADY, NEW YORK

Date: December 22, 1958

To: WAP Nuclear  
Attleboro, Massachusetts

Subject: FUEL  
Instruction

to Vendor No. 3 *NPO 80224-K.*

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  
731-189  
\$1,000.00

(SIGNATURES REQUIRED)

Financial Representative

Approved: 7th Level Manager

6th Level Manager

5th Level Manager

4th Level Manager

General Manager

\_\_\_\_\_  
\_\_\_\_\_  
*J. J. Brown 12/23/58*  
\_\_\_\_\_  
\_\_\_\_\_

DISTRIBUTION:

RC Adams

CJ Bier

HF Brown

LV Kjar

JM Mylroie

WA Neisz

JB Rouchi

CE Smith *12/23/58*

S Sturges *S/S D.L.*

WJ VanKatten

JV Goldswaite

EA Ruffer

~~\_\_\_\_\_~~

~~\_\_\_\_\_~~

A Oppenheim

WN Ward (2)

CS Hanga

WH Pappin

ER Pagano (2) *[Signature]*

Cognizant Requester

*CJ Bier*



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

Date: December 18, 1958

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

Attention:

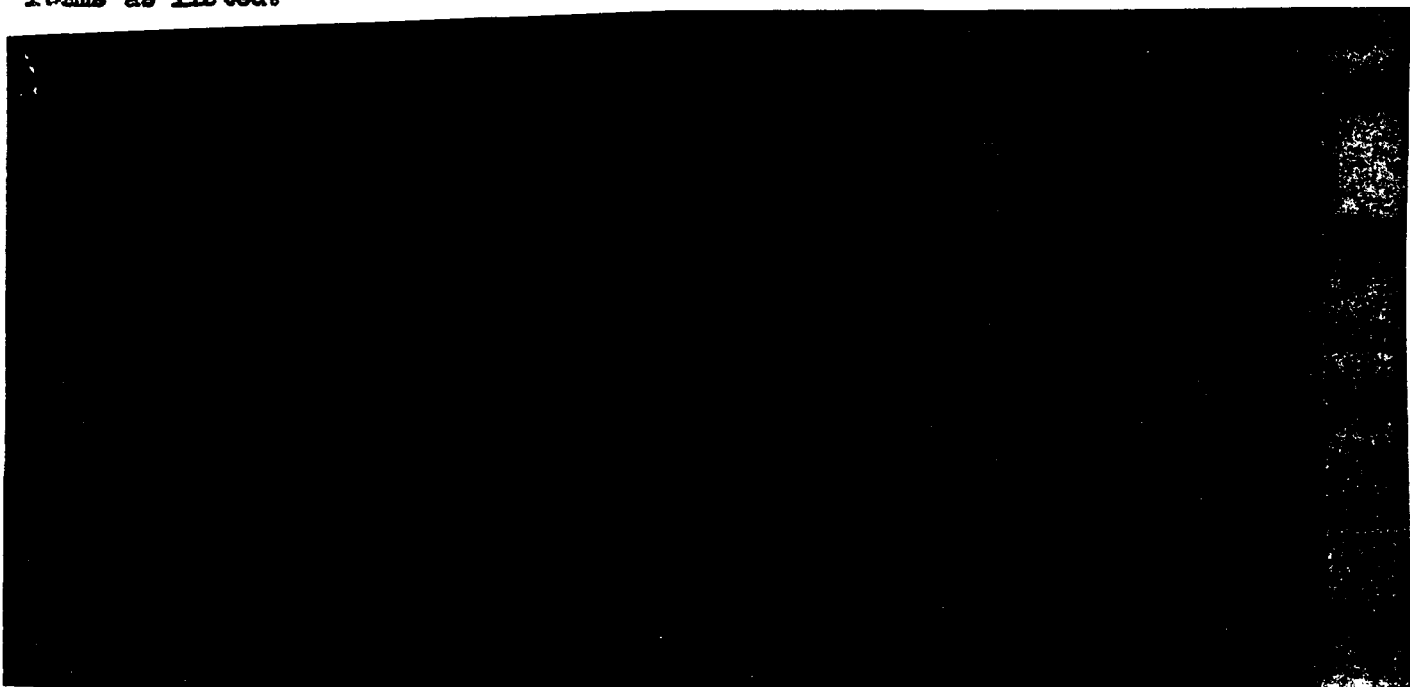
Subject: FUEL

~~Inspection~~ to Vendor No. 2  
Inquiry

Reference: NPD 40221-K

Please produce the following items against NPD 40221-K.

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



(Continued)

Cognizant Requester: *CPB*

ATOMIC POWER BY DEATON  
P. O. BOX 1071  
SCHEMECTADY, NEW YORK

Date: December 10, 1958

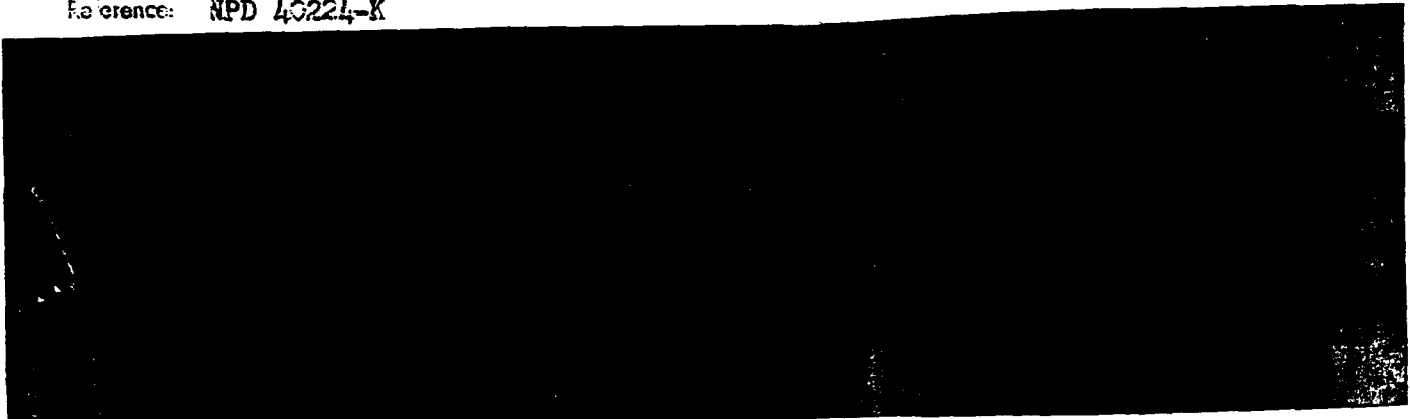
Page 2

To: D & C Nuclear, Inc.

Attention: W. Fayton

Subject: FUEL  
Inquiry to Vendor No. 2

Reference: NPD 40224-K

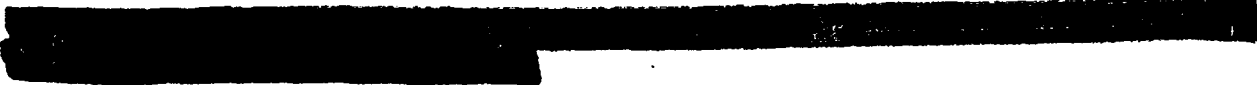


All of the above material shall conform to KAPL Specification CKPM-3-41 Revision 1, dated November 24, 1958.

Zircaloy-2 is to be used as an alloy base.

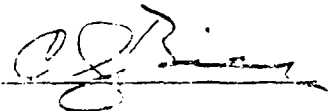
Natural uranium shall be used with loadings as specified above.

Normal boron shall be used with loadings as specified above.



There is no requirement for hardness.

(Continued)

Contract Requester: 

REPRODUCED AT GOV'T EXPENSE # 18

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

Date: December 18, 1958 Page 3

To: M & C Nuclear, Inc.

Attention: W. Paynton

Subject: FUEL  
Inquiry to Vendor No. 2

Reference: HPD-40224-X

Conditions and edges shall be as follows:

[REDACTED]

Plugging is not allowed.

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

[REDACTED]

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, seams, laps, pitting and foreign matter shall not be more than 0.030" in diameter and/or length nor 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)

KINGS ATOMIC POWER REACTOR  
P. O. BOX 1072  
SCHENECTADY, NEW YORK

Date: December 18, 1958

Page 4

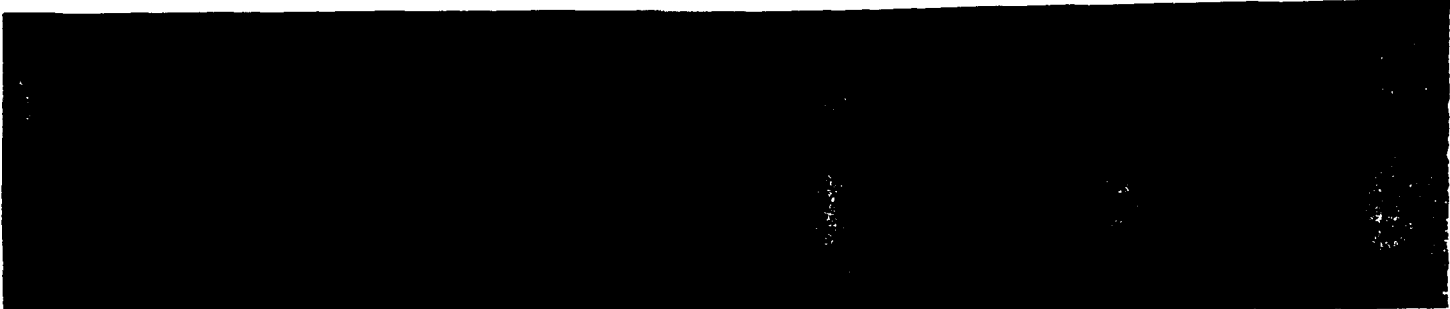
To: M & C Nuclear, Inc.

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 December 29, 1958.

This order is in addition to present order.

Cognizant Requester: \_\_\_\_\_

KNOLLS ATOMIC POWER LABORATORY  
SCHENECTADY, NEW YORK

Date: December 18, 1958

To: M & C Nuclear, Inc.

Subject: FUEL Inquiry to Vendor No. 2

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

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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(SIGNATURES REQUIRED)

Financial Representative

Approved: 7th Level Manager

6th Level Manager

5th Level Manager

4th Level Manager

General Manager

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DISTRIBUTION:

- RC Adams
- CJ Bier
- HF Brown *2/7/58*
- LV Kjar
- JM Malroie
- WA Noice
- JS Roichi
- CE Smith
- S Sturges
- WJ VanNatten
- JV Colthwaite
- This 1 U has/wowards*
- OK - RFB*

Cognizant Requester: \_\_\_\_\_

KNOLLS ATOMIC POWER LABORATORY

P. O. BOX 1072

SCHENECTADY, NEW YORK

Date: 1/12/59

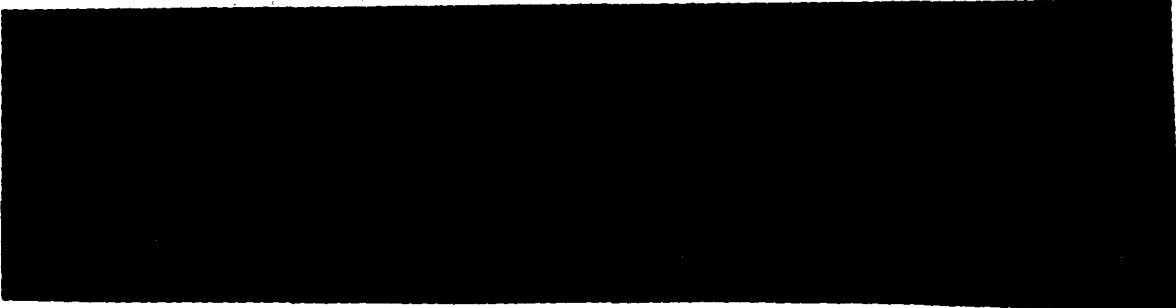
To: M&C Nuclear, Inc.  
P. O. Box 898  
Attleboro, Mass.

Attention: Mr. W. Paynton

Subject: Fuel   
Instruction to Vendor No. 5

Reference: NPD-40224

This IV supersedes and amends IV #4, ~~on which all items listed~~ <sup>on contract #40224</sup> ~~of only (4) items have listed~~ <sup>of only (4) items have listed</sup> ~~felax (4) within the frame axed~~ width tolerances.

  
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.

Cognizant Requester: 

KNOLLS ATOMIC POWER LABORATORY  
SCHENECTADY, NEW YORK

REPRODUCED AT GOVT EXPENSE # 18

Date: 1/12/59

To: M&C Nuclear, Inc.

Subject: Fuel [redacted]  
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 of IV-4
\$43,425.00
\$39,400.00

(SIGNATURES REQUIRED)

Financial Representative

*W. Haugh* 1/13/59

Approved: 7th Level Manager

6th Level Manager

5th Level Manager

4th Level Manager

General Manager

*J. Z. Brown* 1/13/59

*D. B. Programming* 1/13/59

DISTRIBUTION:

- R.C. Adams
- C.J. Bier
- H.F. Brown
- L.V. Kjar
- J.M. Mylroie
- W.A. Neisz
- R. Selzler
- C.E. Smith (2) *CSJ/KJA*
- S. Sturges JDL
- 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
- A. Kephart
- L. Maisel

Cognizant Requester:

*C. J. Bier*

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

REPRODUCED AT GOVT EXPENSE # 18

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.

Cognizant Requester: L. E. Duran  
L. E. Duran



KNOLLS ATOMIC POWER LABORATORY  
SCHENECTADY, NEW YORK

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

Information  
Fixed Price  
R & D  
-----  
None  
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(SIGNATURES REQUIRED)

Financial Representative  
Approved: 7th Level Manager  
6th Level Manager  
5th Level Manager  
4th Level Manager  
General Manager

\_\_\_\_\_  
\_\_\_\_\_  
*L. C. Hanny 9/18/59*  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DISTRIBUTION:

- RC Adams
- CJ Bier
- HF Brown
- LV Kjar
- JM Mylroie
- WA Neisz
- R Selzler
- \* CE Smith (2) *ces*
- 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 *spw*

\* Signatures required.

Cognizant Requester: *L. E. Duran*  
L. E. DURAN

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NPD 42088-17ic

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

On October 2, 1959

To: F. E. Hulett, Inc.  
P.O. Box 899  
Andover, Massachusetts

Re: Mr. W. Payton

Subject: Disposition of Waste Mixed Uranium  
Inventory - Volume 10 - IPN 42088

Re: Mr. W. Payton's letter to Mr. J. H. Harty, IPN 42088

You are instructed to dispose of waste mixed uranium referred to in the  
reference letter as follows:

Prepare to triplicate a detailed listing of the 590 grams (SS weight) of  
U<sup>235</sup> waste as per ABC Manual, Chapter 7-30.061, which will be forwarded  
to SRRCO for their evaluation and disposition instruction.

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

Cooperant Requester: L. E. Duran

L. E. Duran

KNOLLS ATOMIC POWER LABORATORY  
SCHENECTADY, NEW YORK

Date October 2, 1959

To M & C Nuclear, Inc.

Subject Disposition of Waste Normal Uranium  
Information to Vendor No. 1 - MPD 42088

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)

Special Representative

Approved: 7th level Manager

6th level Manager

5th level Manager

4th level Manager

General Manager

\_\_\_\_\_  
\_\_\_\_\_  
*J. C. Hanny* 10/3/59  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DISTRIBUTION

- JM Mylroie
- MP Smith
- GA Hester
- CE Smith
- LV Kiser
- NE Short *cfb*
- ME Hanny
- Sturges *JDL*

• Signatures required.

NPD 44703 |

ATOMIC ENERGY COMMISSION  
U.S. GOVERNMENT  
SCHEMATIC, NEW YORK

Date: November 10, 1959

To: M&C Nuclear, Inc., Attleboro, Massachusetts

Attn: E. Sagar

Subject: QUALITY ASSURANCE PROVISIONS - THE CELL BLOCK-HP MPD 44703  
Reference: Vendor No. 19

Reference:

KAPL FAX 11-6-59 Wrd to Sagar/Pappin/Deegan. The following is confirmed to meet the requirements of the subject orders

- a. The process approval samples requested by IV-16 and amendment 1 are KAPL approved.
- b. Repair procedures used on the fuel block-subassembly extension bracket welds and repair procedures 1K and 2K are KAPL approved.
- c. Cleanliness requirements for this order are standard M&C cleanliness requirements for Zircaloy material.
- d. X-ray standards and procedures previously submitted are approved.

The permissible concentration of such weld defects shall be as follows:

- e. IV-17 should be cancelled because this information is included in IV-16.
- f. Filler wire from M&C No. N00486 M&C Purchase Order 10018 Heat No. 28120 is acceptable for use on this purchase order.

Original Requester: ACB

NPD-44703-1416

Ackerman

REPRODUCED AT GOV'T EXPENSE # 18

Date: October 20, 1959

To: M&C Nuclear  
Attleboro, Mass.

Subject: M&C DEVIATION NOTICE-DISPOSITION REQUEST #6  
Instruction to Vendor No. 16 10-17-59

NPD 44703

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

<u>Amendment</u>
<u>Fixed Price</u>
<u>R&amp;D</u>
<u>721-613</u>
<u>Reduction \$700.00</u>
<u>\$10,043.00</u>
<u>\$10,743.00</u>

(SIGNATURES REQUIRED)

Financial Representative

Approved: 7th Level Manager

6th Level Manager

5th Level Manager

4th Level Manager

General Manager

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DISTRIBUTION:

HF Brown 214B 10/21

AR Derocher

CS Haugh

RS Kinja

CE Smith

C Schenk

S Sturges

JO Mirate

RS Zeno RS Zeno 10/21/59

WW Ward

MW Steffens

WM Knox

D Jorgensen DAJ

T Stagnitta 10/21

DN Dunning

H. R. PAGANO (2)

Note: See OPG 1.22 dated 9/15/59  
Section V-c-2 for deviations

*[Faint handwritten notes and signatures]*

Contract Requestor: W.C. Ward

✓

✓

✓

NPD 01733-MSC



General Electric Company  
KNOLLS ATOMIC POWER LABORATORY  
Schenectady, New York

December 4, 1961

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

References: Quotations Received From:

- (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:

Evaluation of Bids

<u>Vendor</u>	<u>Item</u>	<u>Total Cost To KAPL</u>	<u>Delivery</u>	<u>Remarks</u>
1. UNC Corp.	[REDACTED]	\$20,621	4 wks. ARO and material	Non-Conforming (guaranteed basis)
UNC Corp.	[REDACTED]	\$20,621	4 wks. ARO and material	Non-Conforming ("best effort" basis)
2. M & C Inc.	[REDACTED]	\$ 4,105	4 wks. ARO and material	Non-Conforming ("best effort" basis)
M & C Inc.	[REDACTED]	\$ 4,105	4 wks. ARO and material	Non-Conforming (min. guarantee on tolerance and yield)
3. B & W Co.	- Decline to quote			
4. O E Inc.	- Decline to quote			
5. Westinghouse-	No quote			

December 4, 1961

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 [REDACTED] (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 - [REDACTED] Reactor Physics).
4. This program was NR approved in Letter #A 924, dated October 20, 1961, RD:N;DN Schmaker.

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. Dazen  
NCME Experimental and Critical Assemblies  
NUCLEAR CORE OPERATION

JRD:bv

cc: HF Brown  
JJ Coomes/TW Kissinger ←  
JW Noaks/RG Luce  
EO Porter *E.P.P.*  
lb/file

# KNOLLS ATOMIC POWER LABORATORY

Request for Quotation

FUNDING

AEC W-31

NAVY CONTRACT NO.

OPG (PROCUREMENT & STOCKING) 60.00

RQ

Insert WR Number  
will be used when  
items are ordered.

Date QUOTES required

82151

TO PURCHASING:  
Please obtain QUOTATIONS ONLY on Materials  
and/or services listed below

PURCHASING USE ONLY - DO NOT WRITE IN THIS BLOCK

T W Kissenger

SUGGESTED SOURCES

United Nuclear Corporation

AEC Nuclear, RSI

Westinghouse, Blairville

SHOW FORMER NPD NUMBER IF AVAILABLE

See Instruction 1h.  
REQUESTED DELIVERY DATE

ITEM	QTY.	UNIT	DESCRIPTION. REQUEST ONLY ONE TYPE COMMODITY PER R.Q.	PURCHASING USE ONLY		
				UNIT	DISC.	NET PRICE
[REDACTED]						
1			[REDACTED]			
[REDACTED]						
[REDACTED]						
Unit Price _____ Total Price _____						
2			[REDACTED]			
[REDACTED]						

### Q C CATEGORY OF SUPPLIES

SUPPLY CATEGORY MUST BE INDICATED (X)

- PRIME 1 (CONCURRENCE BY QUALITY CONTROL)
- PRIME 2 (CONCURRENCE BY QUALITY CONTROL)
- NON-PRIME

Buyer 11/6  
C/A OR BUYER DATE

- If none of the blocks above are checked, the execution of this request indicates that the Q C SUPPLY CATEGORY IS "ALL OTHER."
- The execution of this request will NOT involve access to CLASSIFIED INFORMATION.
- Material control, AEC and DOD EXCESS personal property lists have been reviewed and the above material is not available from these sources.
- The execution of this request will not involve procurement, shipment, or use of Source and Special Nuclear Materials (S.N.M.)

COGNIZANT ENGINEER OR REQUESTER

R. Johnson

BLDG. E-1

DATE SUBMITTED 11/2/61

APPROVED

REQUESTER: This form when completed and submitted to Purchasing will initiate action for QUOTATIONS ONLY on materials and/or services described herein. This form is designed for use with Material Request Form KAP 61A PART II. Please take the necessary precautions to insure legibility on all copies of both parts.

REPRODUCED AT GOV. EXPENSE

12154 p. 2 of 654

ITEM	QTY.	UNIT	DESCRIPTION: REQUEST ONLY ONE TYPE COMMODITY PER R Q. - (b)	Please print or type	PURCHASING USE ONLY		
					UNIT	QTY.	NET PRICE
			[REDACTED]				

Total Price \_\_\_\_\_

3 copies Vendor's complete Inspection Records.

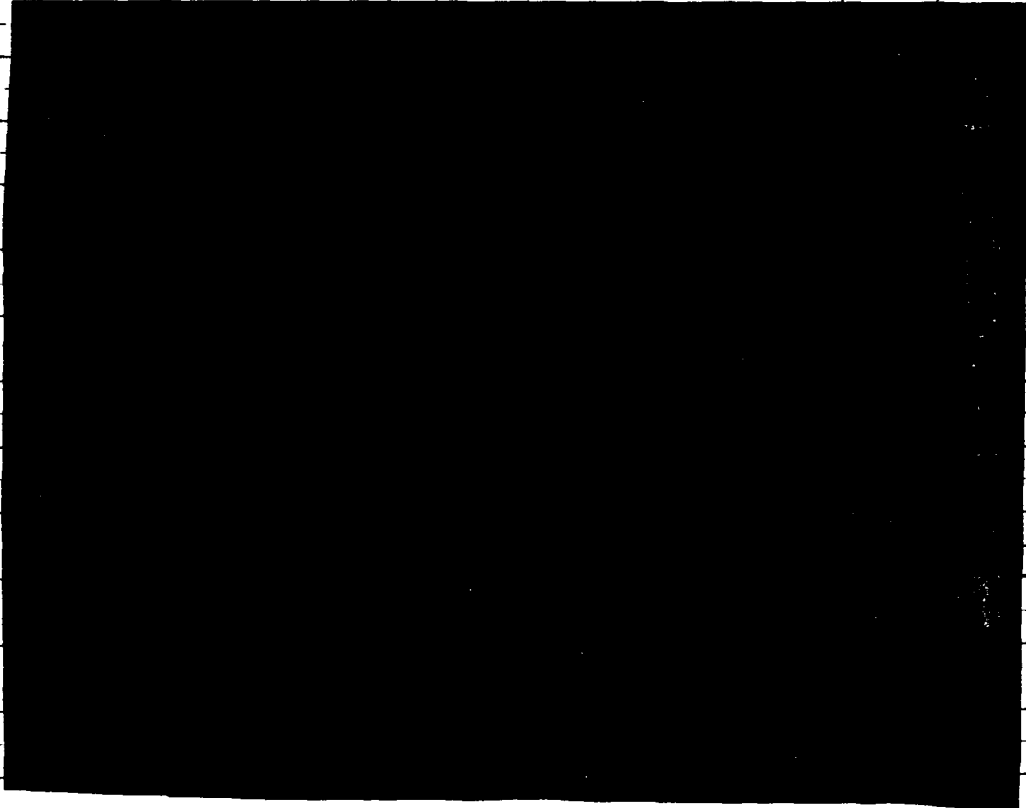
4. Copies Certification in the form prescribed below:

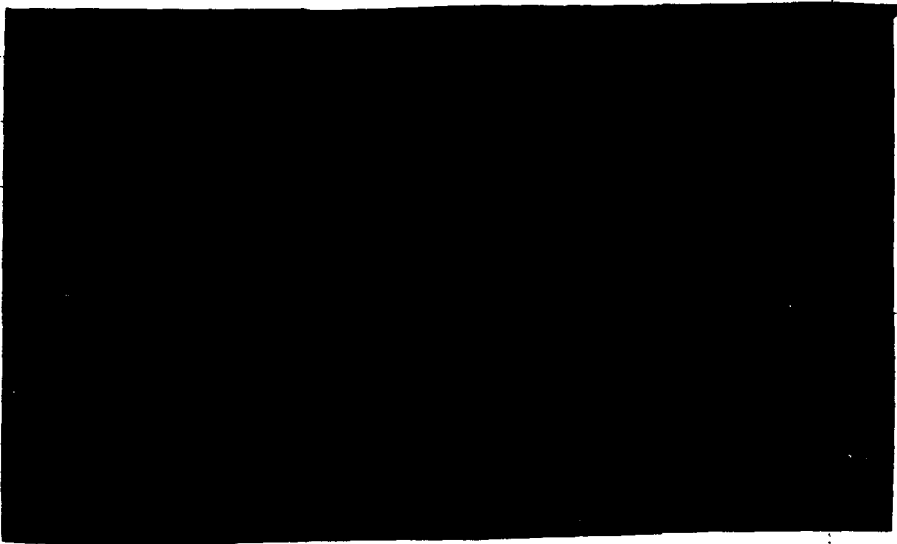
I, \_\_\_\_\_ certify that the services called for on contract, \_\_\_\_\_, have been furnished in strict accordance with the requirements of the aforesaid order.

NAME \_\_\_\_\_  
 TITLE \_\_\_\_\_  
 DATE \_\_\_\_\_

THE FOLLOWING INSTRUCTIONS SHALL APPLY:

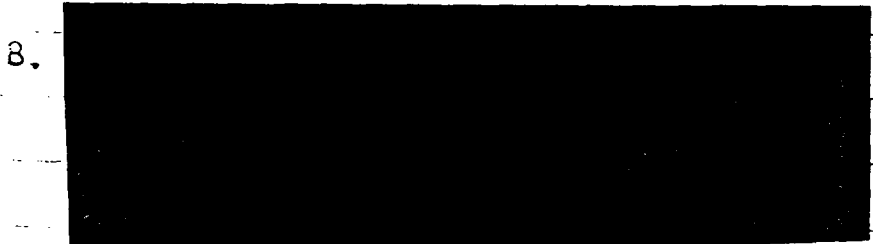
1. The vendor shall quote separately on items 1, 3, 4 and items 2, 3, 4, giving unit and total price for item 1 and total price for item 2.



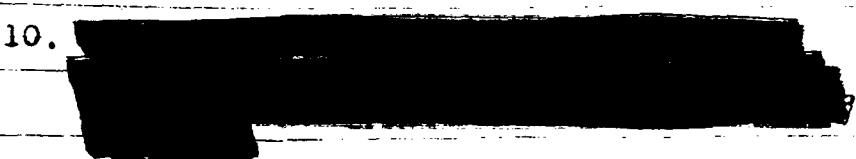


6. Suitable accountability procedures shall be set up to account for all fissionable material at every step in the manufacturing process. Such procedures must be in accordance with existing AEC regulations, (Vol 7000, Part 1400, Materials Accountability, AEC Manual).



7. Procedures shall be established to make impossible the accumulation of enough fissionable material in one area to produce a critical mass capable of sustaining a chain reaction.



9. Care shall be taken throughout the fabrication process and storage to avoid contamination by foreign materials since these may adversely affect the reactivity of the shims.



ITEM	QTY	UNIT	DESCRIPTION: REQUEST ONLY ONE TYPE COMMODITY PER R. Q. - Please print or type	PURCHASING USE ONLY		
				UNIT	QTY	NET PRICE
			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.			
			13. Shipment: A. KAPL will furnish vendor with shipping containers to be used in delivering finished product. B. MIL-STD-129, Marking for Shipment and storage shall apply to this order. C. Individual packaging of shims shall not be required, however, vendor 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 KAPL approval within seven (7) calendar days after order placement. These shall be submitted to:  T. W. Kissinger KAPL P. O. Box 1072 Schenectady, New York			
			16. Vendor shall submit a weekly status report by telephone or Fax 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 714C P. O. Box 1072 Schenectady, New York			

ITEM	QTY.	UNIT	DESCRIPTION: REQUEST ONLY ONE TYPE COMMODITY PER R Q - Please print or type	PURCHASING USE ONLY		
				UNIT	QTY.	EXT.
			17. Prior to making any shipments to KAPL, vendor shall notify KAPL (J. J. Coccos, Mgr. NCO Materials Control) twenty-four (24) hours in advance to enable obtaining prior AEC-SERO <sup>Shipping</sup> approval. KAPL shall notify vendor when the required approval has been obtained.			
			18. Vendor shall notify KAPL cognizant engineer not less than 48 hours in advance of initial rolling of material to enable surveillance by KAPL representative.			
			19. Vendor shall submit a process outline with bid for KAPL information. Outline shall contain:			
			a. 			
			b. 			

REPRODUCED AT GOVT EXPENSE

KNOLLS ATOMIC POWER LABORATORY  
SCHENECTADY, NEW YORK

RECEIVED

DEC 15 1961

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

REPRODUCED AT GOVT EXPENSE # 18

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

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

\_\_\_\_\_  
\_\_\_\_\_  
*Ellis O. Porter 12/12/61*  
*Herbert F. Brown 12/20/61*  
\_\_\_\_\_  
\_\_\_\_\_

DISTRIBUTION:

- RC Bisbee (5)
- AC Bonk
- JJ Coomes
- CJ Derse
- RP Doody/TW Kissinger *44,287*
- AN Doonan
- JP Frandsen/HH Winkler
- JK Gingrich/RA Leavitt
- CS Hofmann/EWD Bunke
- JD Lee
- LM Loeb
- JW Noaks
- EC Rumbaugh
- WW Ward (3)
- file
- 1b

Cognizant Requester: *J.R. Dayer*



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

Date: December 12, 1961

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

[REDACTED]

Therefore, it is necessary to change the requirements in the subject order and delete the guarantee regarding quantity (560 min.) and finished gage (.0245"  $\pm$  .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 authorized to proceed with work on Option A immediately. The charge for Item 4 is not to exceed \$2,010.00.

[REDACTED] The charge for item 5 is not 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 authorization 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 Requester: *J.R. Dager*

General Electric Company  
KNOLLS ATOMIC POWER LABORATORY  
Schenectady, New York

January 2, 1962  
NCME #820

RECEIVED  
JAN - 3 1962  
R. P. DOODY, JR.

JAN 3 1962

J. J. COOMES

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

Subject: NPD-01733 - INSTRUCTION TO VENDOR #1

Reference: (1) NR Letter from A. Radkowski; SYM 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.

Since scrap material was being used, as is indicated in reference (1), 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 KAPL received quality material in return.

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

Therefore, IV #1 authorized KAPL to proceed with work on the basis of Option A. and it appears that they will be able to supply KAPL 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.

*Herbert F. Brown*

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

HFB/EO Porter:bv

cc: WW Ward (8)

# REQUEST FOR SHIPMENT OF SS MATERIAL

SHIP TO <b>M &amp; C Nuclear Corp.</b>		CLASSIFICATION OF MATERIAL <b>UNCLASSIFIED</b>			A.E.C. J01 FORM NO. <b>S6E-MAC-166</b>			
<b>Attleboro, Massachusetts</b>		DATE REQUIRED AT DESTINATION <b>12/6/61</b>	DATE SHIPMENT DESIRED <b>12/4/61</b>	LOCATION OF MATERIAL <b>M-2</b>		J.C.C. CLASS I II III		
<b>P.O. Box 898</b>		MATERIAL CATEGORY (CIRCLE ONE) UE <b>(75 UE)</b> 75 UN UO OTHER			TYPE AND NO. OF CONTAINERS <b>2 55 Gal. Drums</b>			
		FORM OF MAT'L.	METAL	ALLOY <b>X</b>	OXIDE	WASTE	SOLUTION	OTHER
ATTENTION: <b>Frank Cutone</b>		CONTRACT OR N.P.D. NO. <b>01733</b>			TO BE RETURNED <input checked="" type="checkbox"/> YES RETURNED CONDITION <input type="checkbox"/> NO <input type="checkbox"/> SAME <input checked="" type="checkbox"/> OTHER			
METHOD OF SHIPMENT <b>Railway Express Prot. Sign.</b>		PREPAID <b>X</b>	COLLECT	VALUE <b>50.00</b>	SHOP ORDER <b>7443312</b>	<input type="checkbox"/> A.E.C. COURIER <input type="checkbox"/> KAPL MESSENGER		

PURPOSE OF SHIPMENT  
**Material for work on NPD 01733**

MEASUREMENT METHOD  
**Hadley Metrogram Balance**

MISCELLANEOUS INSTRUCTIONS  
**Do not open in transit**

SHIPMENT REQUESTED BY **J. Hoaks** SECTION MGR. **R. Luce** BLDG. **F** EXT. **7016** SEND COPY OF SHIPPING DOCUMENT TO

*A. D. Delaney Jr. - KAPL Security*

SHIPPING DOCUMENT NO. <b>C10183</b>	DATE OF SHIPMENT	CARRIER <b>MC CORMACK</b>	BILL/LADING NO.	SIGNATURE OF SHIPPER <i>P. C. Bisher</i>	DATE
MATERIAL CLASSIFIER	CUSTODIAN <b>J. Hoaks</b>	KAP-84 RECEIPT	SIGNATURE OF KAPL PURCHASING	DATE	

RADIOLOGICAL SERVICES MONITORING INFORMATION

UNIT OF MEASURE  GRAMS  KILOGRAMS

SIGNATURE - ABC MATERIAL DIVISION *[Signature]* DATE **12/4/61**

EXTERNAL RADIATION		MATERIAL	DESCRIPTION	TYPE	SIZE	KIND	ETC.		
MREM/HR AT 2 INCHES** INCL	IDENTY	GROSS WGT.	NET WGT.	WGT.	% U	ELEM. WGT.	% ENR.	ISOTOPE WGT.	PROJECT NO.
			<b>32721.91</b>			<b>4106.65</b>		<b>3825.57</b>	<b>SNR 40705-01-1</b>
MREM/HR PENETRATING									
MREM/HR AT 1 METER**									
INCL MREM/HR PENETRATING									
MREM/HR AT 15 FT.** INCL									
MREM/HR PENETRATING									
**FROM OUTER SURFACE OF CONTAINER									
OUTER SURFACE CONTAMINATION									
c/m BETA GAMMA AT 1"									
d/m ALPHA 14 SQ. INCH									
INSTRUMENT SURVEY <input type="checkbox"/>		SMEAR SURVEY <input type="checkbox"/>							
OTHER MONITORING RESULTS									
		TOTALS							
				← TOTAL GROSS WGT. →		← TOTAL ELEM. WGT. →			
						<b>4106.65</b>			

THE FOLLOWING CONTRACTUAL INFORMATION\* IS PROVIDED FROM CONTRACTUAL RECORD FILES AND IS FACTUAL TO THE BEST KNOWLEDGE AND BELIEF OF THE MANAGER—MATERIAL CONTROL.

SURVEYOR'S SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

RADIOLOGICAL SERV. SIGN. \_\_\_\_\_ DATE \_\_\_\_\_

**J. J. Coomes** *[Signature]*  
MANAGER—MATERIAL CONTROL DATE \_\_\_\_\_

*QUANTITY AUTHORIZED TO DATE	<b>7651.14</b>	UNIT	<b>grams</b>	<b>235</b>	FORM	<b>alloy</b>
*QUANTITY PREVIOUSLY SHIPPED	<b>3825.57</b>	UNIT	<b>grams</b>	<b>235</b>	FORM	<b>alloy</b>
QUANTITY THIS SHIPMENT	<b>3825.57</b>	UNIT	<b>grams</b>	<b>235</b>	FORM	<b>alloy</b>
TOTAL SHIPPED	<b>7651.14</b>	UNIT				

SNROO COMMENTS \_\_\_\_\_

REPRODUCED AT GOV'T EXPENSE # 18

EC Risbee  
JR Daxon  
JV Hooks

**Premium Transportation - MFD 01733**

**January 10, 1962**

**Mr. J. J. Burrows  
Warehouse  
Building N-1  
KAPL**

Premium transportation by McDonald Express has been authorized for a shipment of [REDACTED] on MFD 01733, M & C Nuclear. The shipment will consist of four drums of material and is urgently required to continue the fabrication of the ATR reload at KAPL.

Commercial transportation cannot deliver [REDACTED] in sufficient time to enable the schedules to be maintained. The shipment is being sent collect and should be charged to S. O. 7443-312.

**Approved**

**E. G. Luce, Manager  
SAR Reactor Physics**

**T. H. Kissinger  
Nuclear Core Materials Control  
Building O-1, Ext. 698**

**TJK:esp**

MT

OPR ATTIL 481 PLSOK M

ES PR OK

PR ATTIL 481 OK

THIS IS M AND C NUCLEAR GA PLS

KAPL 1094 SCDY NY CLG - 1/10/62

ATTENTION... F CUTRONE

CONFIRMING TELECON WITH YOUR K. DUFFY.

RE NPD-01733- PERMISSION GRANTED TO SHIP 5 DRUMS CONTAINING [REDACTED]  
[REDACTED] ON 1-10-62, MC DONALD EXPRESS AND 3 DRUMS ON 1-11-62, GAYS  
EXPRESS, CONTAINING SCRAP FROM ORDER.

TW KISSINGEP

KNOLLS ATOMIC POWER LABORATORY

END PLS ACK

RED OKN THS

PURCHASE ORDER

KNOLLS ATOMIC POWER LABORATORY

P.O. BOX 1072

SCHEENCTADY, NEW YORK

TO AEC  
7/28

REPRODUCED AT GOVT EXPENSE # 18

CHASING

OPERATED BY THE GENERAL ELECTRIC COMPANY UNDER GOVERNMENT CONTRACT W-31-109-ENG.-32

SHOP ORDER NO. <b>7443-312</b>	M.R. NO. <b>12154</b>	DATE ORDERED <b>12/6/61</b>	VENDOR CODE <b>3611</b>
-----------------------------------	--------------------------	--------------------------------	----------------------------

SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

PURCHASE ORDER NO. <b>NPD 01733-D</b>
--

TO

**H & C Nuclear, Inc.  
Attleboro, Mass.**

**Attn: Mr. F. Cutrone**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**

WAREHOUSE BLDG. M-2


SCHEENCTADY, NEW YORK

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS:) RENDER INVOICES IN DUPLICATE TO:  
FINANCE - ACCOUNTS PAYABLE

ON PREPAID SHIPMENTS F.O.B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL

SHIP VIA <b>Oxy's Express</b>	F.O.B. <b>Attleboro, Mass.</b>	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE <b>Ref. Instruction 11</b>	ORDERED FOR <b>J. Dagen</b>	BLDG. BUYER <b>Room. E-1 R. C. Bisbee/jar</b>

THIS ORDER SUBJECT TO GENERAL TERMS AND CONDITIONS OF ATTACHED PURCHASE SUPPLEMENT NO. **AEC-958** FUNDING: **W-31**

ITEM	QUANTITY	UNIT	DELIVER TO: (BUILDING) (ROOM)	UNIT PRICE	DISCOUNT	NET TOTAL
1	5		<b>KAPL HQ QUALITY CONTROL INSPECTION IS REQUIRED QC-A</b> 			<b>\$150.00</b>
2	3	ccs.	<b>Seller's complete Inspection Records</b>			<b>(Included in Item 1)</b>
3	3	ccs.	<b>Standard Certification Clause in the form prescribed below:</b>  <b>'I, _____, certify that the material and/or services called for on KAPL Purchase Order NPD 01733 have been furnished in strict accordance with the requirements of the aforesaid order.'</b>  Signed: _____ Title: _____ Date: _____			<b>(Included in Item 1)</b>
<b>Total Amount of Purchase Order</b>						<b>\$150.00</b>

THIS ORDER CONSISTS OF \_\_\_\_\_ PAGES.

GENERAL  ELECTRIC

**PURCHASE ORDER**  
**KNOLLS ATOMIC POWER LABORATORY**

P.O. BOX 1072

SCHENECTADY, NEW YORK

BUYING

OPERATED BY THE GENERAL ELECTRIC COMPANY UNDER GOVERNMENT CONTRACT W-31-109-ENG.-52

PURCHASE ORDER NO.

SHOP ORDER NO.      M.R. NO.      DATE ORDERED      VENDOR CODE

SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

**NPD 01733-D**

TO

**M & C Nuclear, Inc.**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**

WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

-Page 2-

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS:) RENDER INVOICES IN DUPLICATE TO:  
 FINANCE - ACCOUNTS PAYABLE  
 ON PREPAID SHIPMENTS F.O.B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL

SHIP VIA	F.O.B.	TERMS	DO-E2 Certified under DMS Reg. 1	
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG.	BUYER

THIS ORDER SUBJECT TO GENERAL TERMS AND CONDITIONS OF ATTACHED PURCHASE SUPPLEMENT NO. \_\_\_\_\_ FUNDING: \_\_\_\_\_

ITEM	QUANTITY	UNIT	DELIVER TO:	UNIT PRICE	DISCOUNT	NET TOTAL
			(BUILDING) (ROOM)			
			<p>In consideration of the placement by General Electric of this purchase order, Seller grants to General Electric Option A covering items 4 thru 6 inclusive, such option to be exercisable by General Electric within 30 calendar days after acceptance of Item 1.</p> <p><b>OPTION A</b></p>			
4	[REDACTED] (Min)		[REDACTED]			\$2,010.00
5			[REDACTED]			\$1,945.00
6	3	ccs.	Production Schedule			(Included in the above)

THIS ORDER CONSISTS OF \_\_\_\_\_ PAGES.

**GENERAL  ELECTRIC**

REPRODUCED AT GOVT EXPENSE # 18

**PURCHASE ORDER**  
**KNOLLS ATOMIC POWER LABORATORY**

P.O. BOX 1072

SCHENECTADY, NEW YORK

SING

OPERATED BY THE GENERAL ELECTRIC COMPANY UNDER GOVERNMENT CONTRACT W-31-109-ENG.-52

PURCHASE ORDER NO.

SHOP ORDER NO.

M.R. NO.

DATE ORDERED

VENDOR CODE

SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

**NPD 01733-D**

TO

**M & C Nuclear, Inc.**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**

WAREHOUSE BLDG. M-2

SCHENECTADY, NEW YORK

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS.) RENDER INVOICES IN DUPLICATE TO:  
**FINANCE - ACCOUNTS PAYABLE**

ON PREPAID SHIPMENTS F.O.B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL

-Page 3-

SHIP VIA	F.O.B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

THIS ORDER SUBJECT TO GENERAL TERMS AND CONDITIONS OF ATTACHED PURCHASE SUPPLEMENT NO. \_\_\_\_\_ FUNDING: \_\_\_\_\_

ITEM	QUANTITY	UNIT	DELIVER TO: (BUILDING) (ROOM)	UNIT PRICE	DISCOUNT	NET TOTAL
7	3	ecs.	Seller's complete Inspection Records			(Included in the above)
8	3	ecs.	Standard Certification Clause  'I, _____, certify that the material and/or services called for on KNPL Purchase Order NPD 01733-D have been furnished in strict accordance with the requirements of the aforesaid order.' Signed: _____ Title: _____ Date: _____  In consideration of the placement by General Electric of this purchase order, Seller grants to General Electric Option B covering Item 9, such option to be exercisable by General Electric at any time prior to final acceptance of Items 1 and 4.  <u>OPTION B</u>  Intermediate vacuum anneal of plates to minimize edge cracking.			
9				\$244/anneal		

THIS ORDER CONSISTS OF \_\_\_\_\_ PAGES: \_\_\_\_\_

**GENERAL  ELECTRIC**

REPRODUCED AT GOVT EXPENSE # 18



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.

[REDACTED]

Also upon placement of the order, [REDACTED]

[REDACTED]

material from other sources provided it is certified 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. [REDACTED]

3. [REDACTED]

4. [REDACTED]

5. DIMENSIONAL INSPECTION

Item 1 and 4: [REDACTED]

[REDACTED]

[REDACTED]

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 manufacturing process. Such procedures must be in accordance with existing AEC regulations, (Vol 7000, Part 7400, Materials Accountability, AEC Manual).
7. Care shall be taken throughout the fabrication process and storage to avoid contamination by foreign materials since these may adversely affect the reactivity of the shims.
8. Finished fuel shims shall be suitably cleaned to remove surface dirt and oil using acetone.
9. No individual shim identification shall be required unless shims and outside specified tolerance limits.
10. Shipment:
  - A. KAPL will furnish Seller with shipping containers to be used in delivering finished product.
  - B. MIL-STD-129, Marking for Shipment 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 nuclear 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 KAPL, Seller shall notify KAPL (J. J. Coomes, Mgr. NCO Materials Control) twenty-four (24) hours in advance to enable obtaining prior AEC-SMRO 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:
  - a. 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.
  - c. Items 4 thru 8 inclusive 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.

REPRODUCED AT GOVT EXPENSE # 18

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

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. O. Box 1072  
Schenectady, New York

15. Seller shall notify KAPL cognizant engineer not less than 48 hours in advance of ~~\_\_\_\_\_~~ material to enable surveillance by KAPL representative. ~~\_\_\_\_\_~~

16. The following Quality Control Inspection requirements shall apply:

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 meet order requirements and the seller elects to request KAPL disposition, a formal request for waiver of order requirements shall be submitted to KAPL Purchasing via KAP-416 form or equivalent.

17. General Terms and Conditions of Purchase AEC-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 apply 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 Conditions of Purchase AEC-958 is hereby amended in accordance with the document entitled "Modification to AEC-958" dated 9/25/61 which is attached and made a part hereof; except Paragraph E which does not apply.

- 19. Seller shall submit with his proposal covering any changes to the order, including Change Orders issued by KAPL, a detailed cost breakdown using DD Form 633.
- 20. Seller shall submit four (4) copies of all correspondence when communicating under this order with KAPL.

REPRODUCED BY GOVT EXPENSE # 18



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NPD 44703-D

**PURCHASING**

**PURCHASE ORDER  
KNOLLS ATOMIC POWER LABORATORY**

P.O. BOX 1072

SCHENECTADY, NEW YORK

TWK/LED®

REPRODUCED BY GOVERNMENT

SI	PL. NO. 4-013	M. S. NO. 15925	COMM. NO. ---	DATE ORDERED 8/21/59	VENDOR CODE 13611
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SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

PURCHASE ORDER NO.  
**NPD 44703**

TO  
**M & C Nuclear, Inc.  
Attleboro,  
Massachusetts  
Attn: Mr. D. A. Hurter**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY  
WAREHOUSE BLDG. MC  
SCHENECTADY, NEW YORK**  
\*See Instr. F

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA <b>Gay's Express</b>	DELIVER TO <b>Attleboro, Mass.</b>	TERMS ---	DO-E2 Certified under DMS Reg. 1
REQUIREMENTS ON SITE <b>See Instruction #C</b>	DELIVERED BY <b>Ward</b>	QUANTITY <b>158</b>	BLDG. <b>M. W. Steffens/wb</b>

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/> <b>100 QUALITY CONTROL REQUIRED AT SOURCE.</b>			
1	1	ea.	Cell Mechanical Test Mock-up Mid-Section in accordance with KAPL Drawing 7484E47.			
2	4	ea.	Written reports discussing the procedures and techniques used in fabricating Item #1.			
3	2	ea.	Copies of a certificate in the form prescribed below: "I, _____, certify that the material and/or services called for on KAPL Purchase Order NPD-44703-D have been furnished in strict accordance with the requirements of the aforesaid order." Signed: _____ Title: _____ Date: _____			
<b>TOTAL PRICE FOR ITEMS #1, #2 AND #3</b>						<b>\$14,742.00</b>
The following instructions shall apply:						
A. KAPL will furnish Zr meeting requirements of MIL-Z-19859 as follows:						
(CONTINUED ON PAGE 2)						

**RECEIVED**  
SEP 1 1959  
F. C. HANNY

PURCHASE ORDER  
**KNOLLS ATOMIC POWER LABORATORY**

P. O. BOX 1072

SCHENECTADY, NEW YORK

CHASING

PURCHASE ORDER NO.

SHOW NPD NO. ON ALL PACKAGES  
 AND CORRESPONDENCE

**NPD -44703-D**

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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TO

**M & C Nuclear, Inc.**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

PAGE -2-

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA		F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1	
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG.	BUYER	

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			A. (Continued)			
			(1) [REDACTED] weldment components [REDACTED] per sketch HCO 721-613A. 4 pcs. (1 set) by 8/24, balance by 9/1.			
			(2) [REDACTED] weldment components [REDACTED] per sketch HCO 721-613B 4 pcs. (1 set) by 8/24, balance by 9/1.			
			(3) [REDACTED] set weldment components [REDACTED] per HCO sketch 721-613C 16 pcs. (4 sets) by 8/21/59, balance 8/26.			
			(4) [REDACTED] stock [REDACTED]			
			(5) [REDACTED] spacers (1 pcs.)			
			(6) Fuel Mock-up blocks (4 pcs.) 4" x 5" x 7" by 8/21/59.			
			(7) 25 pounds Cr. [REDACTED] suitable for welding mockups by 8/21/59.			

REPRODUCED AT GOV. PENSE # 18



KNOLLS ATOMIC POWER LABORATORY

P.O. BOX 1072

SCHENECTADY, NEW YORK

PROCHASING

PURCHASE ORDER NO.

SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

NPD 44703-D

ORDER NO.	M. & NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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TO  
M & C Nuclear Inc.

SHIP TO: KNOLLS ATOMIC POWER LABORATORY  
WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK

Page 3

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
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REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG.	BUYER
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This order placed pursuant to Gov't Prime Contract No.  AEC W-31-109 ENG. 52  NAVY NOBS 56405  NAVY NOBS 72103

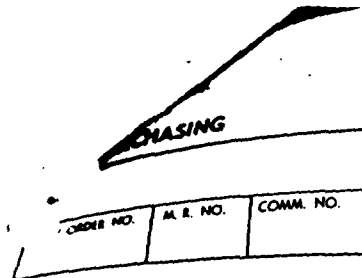
Subject to general terms and conditions of attached Purchase Supplement  AEC-958  NAVY-858

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			<p>CONFIRMING ORDER IF CHECKED <input type="checkbox"/></p> <p>B. Seller shall submit a process outline covering the proposed details of fabrication for the assembly prior to welding. This outline shall include a provision for corrosion testing. KAPL will approve the process outline within twenty-four (24) hours after it's submission. Seller shall be responsible for submitting this process outline to KAPL in sufficient time for its approval to enable Seller to meet the delivery requirements specified below.</p> <p>C. Delivery Requirements: KAPL requires and it is essential that delivery of the work required by this order be made on or before September 17, 1959. Delivery shall be subject to receipt by Seller of the KAPL supplied material in accordance with Instruction A above. At the written request of the Seller, delivery will be extended if limiting Items #3 and #6 of A are not received in accordance with the schedule or if the remaining Items #1, #2, #4, #5 and #7 are not received within four (4) days of schedule. Extensions will not exceed a day for day basis and will not be additive.</p>			

REPRODUCED AT APERNSE # 18

PURCHASE ORDER  
**KNOLLS ATOMIC POWER LABORATORY**  
 P. O. BOX 1072

SCHENECTADY, NEW YORK



ORDER NO.	M. E. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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SHOW NPD NO. ON ALL PACKAGES  
AND CORRESPONDENCE

PURCHASE ORDER NO.

**NPD 44703-B**

TO **M & C Nuclear, Inc.**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

PAGE -4-

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	<b>DO-E2 Certified under DMS Reg. 1</b>
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			<b>D. Argon will be used as the welding atmosphere.</b>			
			<b>E. A complete dimensional inspection shall be made by the Seller and approved by KAPL Quality Control Engineering prior to shipment of the work specified in Item #1.</b>			
			<b>F. Ship material specified in Item #1 to:                      Bristol Machine Company                      Forestville,                      Connecticut                      Mark: For use on KAPL T&amp;M K379-78</b>			
			<b>G. The Seller recognizes that Zirconium in various forms possesses potentially hazardous properties. With respect to the Zirconium furnished by KAPL, the Seller assumes full responsibility and shall indemnify and hold General Electric harmless against any losses, liability, expenses or damage to the Seller or others which occur or arise while the Zirconium is in the possession and control of the Seller or anyone performing services for the Seller.</b>			
			(CONTINUED ON PAGE 5)			

REPRODUCED AT EXPENSE # 18

**PURCHASE ORDER  
KNOLLS ATOMIC POWER LABORATORY  
P. O. BOX 1072**

**SCHENECTADY, NEW YORK**

**CHASING**

PURCHASE ORDER NO.

SHOW NPD NO. ON ALL PACKAGES  
AND CORRESPONDENCE

**NPD** 44703-D

ORDER NO.	M. E. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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TO **M & C Nuclear, Inc.**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK

**PAGE -5-**

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.

ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	<b>DO-E2 Certified under DMS Reg. 1</b>	
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG.	BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			<p align="center">CONFIRMING ORDER IF CHECKED <input checked="" type="checkbox"/></p> <p><b>H. With regard to the Zircaloy supplied by KAPL, the Seller shall:</b></p> <p><b>A. During the course of the work, maintain identification records and provide reports in accordance with the document entitled "Instructions to Suppliers: Accountability of Government Controlled Critical Materials" dated 5/21/58.</b></p> <p><b>B. Upon completion of the work, provide the Manager of Materials Accountability, KAPL, four (4) copies of a material report containing the following information:</b></p> <ol style="list-style-type: none"> <li>1. Quantity of raw material received (in pounds and form).</li> <li>2. Quantity of finished material shipped (in pounds &amp; form).</li> <li>3. Quantity of scrap generated (in pounds &amp; form).</li> <li>4. Quantity of unprocessed raw material remaining (in pounds and form).</li> <li>5. Detailed losses in pounds.</li> </ol> <p align="center">(CONTINUED ON PAGE 6)</p>			

REPRODUCED AT GOVERNMENT EXPENSE # 18

PURCHASE ORDER  
**KNOLLS ATOMIC POWER LABORATORY**  
 P. O. BOX 1072

SCHENECTADY, NEW YORK

REV.  
 PURCHASING

PURCHASE ORDER NUMBER

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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SHOW NPD NO. ON ALL PACKAGES  
 AND CORRESPONDENCE

NPD **447**

TO  
**M & C Nuclear, Inc.**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

PAGE -6-

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	<b>DO-E2 Certified under DMS Reg. 1</b>
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			<p><b>H. (Continued)</b></p> <p><b>C.</b> Upon receipt of information requested by (A) and (B) above, KAPL 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, burn and bury, (<u>chips, turnings, and fines will normally be burned or buried</u>) negotiate for purchase, 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.</p> <p><b>D.</b> Seller shall conform to all applicable Interstate Commerce Commission regulations in preparing and shipping the KAPL supplied material.</p> <p><b>I.</b> Modification to Purchase Order Supplement No. AEC-958:</p>			

REPRODUCED FROM GOVERNMENT RECORDS

PURCHASE ORDER  
**KNOLLS ATOMIC POWER LABORATORY**

P. O. BOX 1072

SCHENECTADY, NEW YORK

**ORDER NO.** **M. R. NO.** **COMM. NO.** **DATE ORDERED** **VENDOR CODE**

SHOW NPD NO. ON ALL PACKAGES  
 AND CORRESPONDENCE

PURCHASE ORDER NO.  
**NPD 44703-0**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

TO **H & C Nuclear, Inc.**

**PAGE -7-**

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	<b>DO-E2 Certified under DMS Reg. 1</b>
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			<p align="center">CONFIRMING ORDER IF CHECKED <input type="checkbox"/></p> <p><b>I. (Continued)</b></p> <p>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.</p> <p>2. 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.</p> <p>3. 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".</p> <p>4. Under Paragraph D of Article XXIII (Default) delete the words "tools, dies, jigs and fixtures" as they appear between the words "parts" and "Plans" in the sixth line thereof.</p>			

REPRODUCED BY GOV. EXPENSE # 18

PURCHASE ORDER  
**KNOLLS ATOMIC POWER LABORATORY**  
 P. O. BOX 1072

SCHENECTADY, NEW YORK

ASING

NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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SHOW NPD NO. ON ALL PACKAGES  
AND CORRESPONDENCE

PURCHASE ORDER NO.  
**NPD 44703-D**

TO **M & C Nuclear, Inc.**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

PAGE -8-

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL

SHIP VIA	F. O. B.	TERMS	<b>DO-E2 Certified under DMS Reg. 1</b>
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			<p style="text-align: center;">CONFIRMING ORDER IF CHECKED <input type="checkbox"/></p> <p><b>5. Delete Article XVI (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.</b></p> <p><b>J. Send certificates required in Item #3 to:                      Warehouse Inspector/Supervising Engineer                      Warehouse, Building M-2                      Knolls Atomic Power Laboratory                      Schenectady, New York</b></p>			

ATTACHMENT #1

Purchase Order NPD-44703-D

"XXVI - Taxes

A. As used throughout this article, the term "tax inclusive date" means the date of negotiated contracts and the date set for the opening of bids for contracts entered into through formal advertising. 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 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 than \$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."



**PURCHASE ORDER  
KNOLLS ATOMIC POWER LABORATORY**

**PURCHASING**

P. O. BOX 1072

SCHENECTADY, NEW YORK

ORDER NO. 21-613	M. R. NO.	COMM. NO.	DATE ORDERED 10/2/59	VENDOR CODE 13011
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SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

PURCHASE ORDER NO. 44703-D  
**NPD** Amendment

TO  
M & C Nuclear, Inc.  
Attleboro  
Massachusetts  
Attn: Mr. D. A. Hurter

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR A. C. Ward	BLDG. BUYER C M. W. Steffens/ame

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			Purchase Order NPD-44703-D issued under date of August 21, 1959 is hereby amended as follows:  Delete item #1 and substitute in lieu thereof the following:  Cell Mechanical Test Mock-up Mid-Section in accordance with KAPL Drawing 7434B47 Revision B.  <u>Purchase Order Price Summary</u>  Original amount of order \$14,742.00 Increase by this Amendment #1 165.00 Revised amount of order <del>14,907.</del>			
1		ea				
			Note: This amendment #1 is a result of IV's 1,7 and 11.			

**RECEIVED**  
OCT 8 1959  
F. C. HANNY

PURCHASE ORDER  
 KNOLLS ATOMIC POWER LABORATORY

P.O. BOX 1072

SCHENECTADY, NEW YORK

**PURCHASING**

REPRODUCE AT GOVERNMENT EXPENSE # 18

ORDER NO. 121-513	M. R. NO.	COMM. NO.	DATE ORDERED 10/8/59	VENDOR CODE 13611
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SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

PURCHASE ORDER NO

**NPD 44703**

AMENDMENT NO. 2

TO  
**M & C Nuclear, Inc.**  
**Attleboro,**  
**Massachusetts**  
**Attn: Mr. D.A. Hurter**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR <b>A.C. Ward</b>	BLDG. <b>C</b> BUYER <b>M.W. Staffens/ark</b>

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			Purchase Order NPD 44703-D issued under date of August 21, 1959 and as amended to date, is hereby further amended as follows:  Add the following item to the KAPL-supplied material listed under instruction A.  (8) <span style="background-color: black; color: black;">XXXXXXXXXXXXXXXXXXXX</span> bracket weldment components, one-half (1/2) set of parts (2 pcs.) per sketch NCO 721-613B.  <u>Purchase Order Price Summary</u>  Original Amount of order \$ 14,742.00 Increase by Amendment #1 155.00 Decrease by this Amendment #2 (1,327.00) Revised Amount of Order ----- \$13,580.			
			NOTE: This Amendment #2 is a result of I.V. #9.			

**RECEIVED**

**F. C. HANNY**

**PURCHASE ORDER**  
**KNOLLS ATOMIC POWER LABORATORY**  
 P. O. BOX 1072

SCHENECTADY, NEW YORK

**PURCHASING**

REPRODUCED AT GOV. SENSE # 18

ORDER NO. <b>-613</b>	M. R. NO.	COMM. NO.	DATE ORDERED <b>10/12/59</b>	VENDOR CODE <b>13611</b>
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SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

PURCHASE ORDER NO.  
**NPD 44703-D**  
 AMENDMENT NO. 3

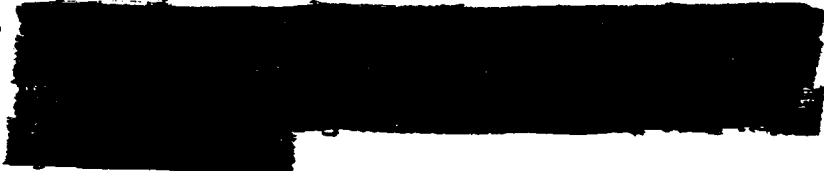
TO  
**M & C Nuclear, Inc.**  
**Attleboro,**  
**Massachusetts**  
**Attn: Mr. D.A. Hurter**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR <b>A.C. Ward</b>	BLDG. BUYER <b>M.W. Steffens/ark</b>

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL										
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>													
			<p>Purchase Order NPD 44703-D issued under date of August 21, 1959 and as amended to date, is hereby further amended as follows:</p> <p>Add the following as Instruction K.</p> <p>K. </p> <p><u>Purchase Order Price Summary</u></p> <table> <tr> <td>Original Amount of Order</td> <td align="right">\$ 14,742.00</td> </tr> <tr> <td>Increase by Amendment #1</td> <td align="right">165.00</td> </tr> <tr> <td>Decrease by Amendment #2</td> <td align="right">(1,327.00)</td> </tr> <tr> <td>Increase by this Amendment #3</td> <td align="right">163.00</td> </tr> <tr> <td><b>Revised Amount of Order</b></td> <td align="right"><b>-----\$13,743.00</b></td> </tr> </table> <p>NOTE; This Amendment is issued in lieu of I.V. #10</p>	Original Amount of Order	\$ 14,742.00	Increase by Amendment #1	165.00	Decrease by Amendment #2	(1,327.00)	Increase by this Amendment #3	163.00	<b>Revised Amount of Order</b>	<b>-----\$13,743.00</b>			
Original Amount of Order	\$ 14,742.00															
Increase by Amendment #1	165.00															
Decrease by Amendment #2	(1,327.00)															
Increase by this Amendment #3	163.00															
<b>Revised Amount of Order</b>	<b>-----\$13,743.00</b>															

**RECEIVED**  
 OCT 14 1959  
**F. C. HANNY**

PURCHASE ORDER  
KNOLLS ATOMIC POWER LABORATORY

P. O. BOX 1072

SCHENECTADY, NEW YORK

PURCHASING

EXPENSE # 18  
REPRODUCTION OK

ORDER NO. 21-513	M. R. NO.	COMM. NO.	DATE ORDERED 3/3/50	VENDOR CODE 3611
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SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

PURCHASE ORDER NO. **NPD 44703-D**  
Attachment No. 4

TO  
**M & C Nuclear, Inc.**  
**Attleboro, Massachusetts**  
  
**Attention: Mr. R. D. Sager**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR A. C. Ward	BLDG. <b>C</b> BUYER <i>W. D. Sager</i> V. D. Moore/DCR

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DELIVER TO:	UNIT PRICE	DISCOUNT	NET TOTAL										
			<p>CONFIRMING ORDER IF CHECKED <input type="checkbox"/></p> <p>Purchase order NPD 44,03-D issued under date of August 21, 1959 and as amended to date is hereby further amended as follows:</p> <p>Decrease the total price of the order by \$500.00 for a revised total price of \$13,155.00. This decrease in price is made to compensate KAPL for the decrease in the work as specified by Change Orders Nos. 1 and 2.</p> <p><u>Purchase Order Price Summary</u></p> <table> <tr> <td>Original Amount of Order</td> <td>(14,742.00)</td> </tr> <tr> <td>Increase by Attachment No. 1</td> <td>155.00</td> </tr> <tr> <td>Decrease by Attachment No. 2</td> <td>(1,321.00)</td> </tr> <tr> <td>Increase by Attachment No. 3</td> <td>153.00</td> </tr> <tr> <td>Decrease by this Attachment No. 4</td> <td><u>(500.00)</u></td> </tr> </table> <p>REVISED AMOUNT OF ORDER ----- (13,155.00)</p>	Original Amount of Order	(14,742.00)	Increase by Attachment No. 1	155.00	Decrease by Attachment No. 2	(1,321.00)	Increase by Attachment No. 3	153.00	Decrease by this Attachment No. 4	<u>(500.00)</u>			
Original Amount of Order	(14,742.00)															
Increase by Attachment No. 1	155.00															
Decrease by Attachment No. 2	(1,321.00)															
Increase by Attachment No. 3	153.00															
Decrease by this Attachment No. 4	<u>(500.00)</u>															
			CONTINUED ON PAGE 2													

PURCHASE ORDER  
KNOLLS ATOMIC POWER LABORATORY  
P. O. BOX 1072

SCHENECTADY, NEW YORK

PURCHASING

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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SHOW NPD NO. ON ALL PACKAGES  
AND CORRESPONDENCE

PURCHASE ORDER NO.

**NPD** 247  
Attachment

TO

**M & C Nuclear, Inc.**

Page 2

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	<b>DO-E2 Certified under DMS Reg. 1</b>
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DELIVER TO:	UNIT PRICE	DISCOUNT	NET TOTAL
			<p>CONFIRMING ORDER IF CHECKED <input type="checkbox"/></p> <p>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.</p> <p>Certified for national defense use under DMS Regulation No. 1.</p> <p>Seller is required to follow the provisions of DMS Regulation No. 1 and of all other applicable regulations and orders of IDCA in obtaining controlled materials and other products and materials needed to fill this order.</p>			

REPRODUCED - GOVT EXPENSE # 18

AUDIT OF NPD 44703 - MYC NUCLEAR  
ZIRC

MAT'L FURNISHED BY KAPL

PER PUR. ORDER 25 LBS  
(TO BE USED FOR WFLD MOCKUPS)

ALL OTHER MAT'L FURNISHED THROUGH BRISTOL  
MACH TOOL ON T&M CONTRACT 379. & WEST LAKE  
MFG ON T&M CONTRACT 353.

MYC NUCLEAR COMPLETED THE MID SECTION  
& SHIPPED IT TO BRISTOL MACH TOOL  
FOR FINAL MACH. ON 11/16/59.

LEDuran 5/10/60

VPD 44701-5

**PURCHASE ORDER**  
**KNOLLS ATOMIC POWER LABORATORY**  
 P. O. BOX 1072

*TWK/LED/copy to DEC*  
**SCHENECTADY, NEW YORK**

**PURCHASING**

ORDER NO. 1-234	M. R. NO. 15965	COMM. NO. ---	DATE ORDERED 8/24/59	VENDOR CODE 13C11
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SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE



PURCHASE ORDER NO. **NPD 44701 - Y**

TO  
**Metals and Controls Corp.**  
 Div. of Texas Instruments Inc.  
 Attleboro, Mass.  
 Attn: Mr. M. Payton

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA <b>Gay's Express</b>	F. O. B. <b>Attleboro, Mass.</b>	TERMS <b>Net 30 days</b>	DO-E2 Certified under <b>DMS Reg. 1</b>
REQUESTED ON SITE	DELIVERY DATE <b>See Inst. 2</b>	ORDERED FOR <b>J. Myrole Room 167 D-4 BLDG.</b>	BUYER <b>R. M. Tentor/M. W. Steffens</b>
This order placed pursuant to Gov't Prime Contract No. <input type="checkbox"/> AEC W-31-109 ENG-52 <input type="checkbox"/> NAVY NOBS 56405 <input type="checkbox"/> NAVY NOBS 72103 <input type="checkbox"/> <b>JJD</b>			
Subject to general terms and conditions of attached Purchase Supplement <input type="checkbox"/> AEC-958 <input type="checkbox"/> NAVY-858 <input type="checkbox"/>			

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
1	100	ea	<b>KAPL NCO QUALITY CONTROL SURVEILLANCE INSPECTION REQUIRED AT SOURCE</b> 			
	200	ea				
3	2	ea	Two copies of Certification in the form prescribed below: 'I, _____, certify that the material and/or services called for on KAPL Purchase Order NPD # _____ have been furnished in strict accordance with the requirements of the aforesaid Order.' Signed: _____ Title: _____ Date: _____			
Total Price of Items #1, #2 and #3-----						<b>\$400.00</b>

**RECEIVED**  
 SEP 2 1959  
**F. C. HANNY**

(Continued Page 2)

REPRODUCED AT GOVT EXPENSE # 18



PURCHASE ORDER  
**KNOLLS ATOMIC POWER LABORATORY**  
 P. O. BOX 1072

SCHENECTADY, NEW YORK

**PURCHASING**

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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SHOW NPD NO. ON ALL PACKAGES  
 AND CORRESPONDENCE

PURCHASE ORDER NO.  
**NPD 44701-Y**

TO **Metals and Controls Corp.**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

Page 2

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	<b>DO-E2 Certified under DMS Reg. 1</b>
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			<p align="center">CONFIRMING ORDER IF CHECKED <input type="checkbox"/></p> <p><b>The following instructions shall apply:</b></p> <p><b>1. KAPL will furnish 100 lbs. of Zircaloy</b> [REDACTED]</p> <p>If the amount of Zircaloy -2 requested by the Seller and furnished by KAPL is insufficient to complete the work required by this order, additional Zircaloy -2 can be supplied by KAPL at Seller's expense at the rate of \$19.00 per pound. All material used by the Seller for the work required by this order shall be certified by the Seller as being KAPL supplied material.</p> <p><b>2. Tolerances for the work shall be as follows:</b></p> <p>[REDACTED]</p> <p align="center">(Continued Page 3)</p>			

REPRODUCED AT GOVT EXPENSE # 18

KNOLLS ATOMIC POWER LABORATORY

P.O. BOX 1072

SCHENECTADY, NEW YORK

REV. PURCHASING

SHOP ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

PURCHASE ORDER NO. 4470121 NPD

TO Metals and Controls Corp.

SHIP TO: KNOLLS ATOMIC POWER LABORATORY WAREHOUSE BLDG. M-2 SCHENECTADY, NEW YORK

Page 3

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE. ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHP VIA		F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG.	BUYER

This order placed pursuant to Gov't Prime Contract No.  AEC W-31-109 ENG. 52  NAVY NO85 56405  NAVY NO85 72103  Subject to general terms and conditions of attached Purchase Supplement  AEC-958  NAVY-858

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			3. [REDACTED]			
			4. Surface condition shall be 63 rms or better.			
			5. Grain size shall not exceed ASTM-C (non-ferrous)			
			6. Delivery Requirements: KAPL requires and it is essential that delivery be made as follows: A. Item 1 - two (2) weeks after receipt of KAPL furnished material. B. Item 2 - four (4) weeks after receipt of KAPL furnished material.			
			7. The Seller recognizes that Zirconium in various forms possesses potentially hazardous properties. With respect to the Zirconium furnished by KAPL, the Seller assumes full responsibility and shall indemnify and hold General Electric harmless against any losses, liability, expenses or damage to the Seller or others which occur or arise while the Zirconium is in the possession and control of the Seller or anyone performing services for the Seller (Continued Page 4)			

**PURCHASE ORDER**  
**KNOLLS ATOMIC POWER LABORATORY**  
**P. O. BOX 1072**

**SCHENECTADY, NEW YORK**

**BUYING**

PURCHASE ORDER NO. **44701**

SHOP ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

**NPD** 44701

TO **Metals and Controls Corp.**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

Page 4

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	<b>DO-E2 Certified under DMS Reg. 1</b>
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			<p>3. With regard to the Fircaloy supplied by NAPL, the Seller shall:</p> <p>A. During the course of the work maintain identification records and provide reports in accordance with the document entitled "Instructions to Suppliers: Accountability of Government Controlled Critical Materials" dated 5/21/58</p> <p>B. Upon completion of the work, provide the Manager of Materials Accountability, NAPL four (4) copies of a material report containing the following information:</p> <ol style="list-style-type: none"> <li>1. Quantity of raw material received (in pounds and form).</li> <li>2. Quantity of finished material shipped (in pounds and form).</li> <li>3. Quantity of scrap generated (in pounds and form)</li> <li>4. Quantity of unprocessed raw material remaining (in pounds and form)</li> </ol> <p style="text-align: center;">(Continued Page 5)</p>			

REPRODUCED AT GOVT EXPENSE # 18

REV.  
PURCHASING

PURCHASE ORDER  
KNOLLS ATOMIC POWER LABORATORY  
P. O. BOX 1072

SCHENECTADY, NEW YORK

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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SHOW NPD NO. ON ALL PACKAGES  
AND CORRESPONDENCE

PURCHASE ORDER NO.  
**NPD 44701-Y**

TO  
**Metals and Controls Corp.**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK

Page 3

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	<b>DO-E2 Certified under DMS Reg. 1</b>
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			<p>CONFIRMING ORDER IF CHECKED <input type="checkbox"/></p> <p>C. Upon receipt of information requested by (a) and (i) above, KAPL 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, burn and bury, or prepare for purchase, or prepare and ship f.o.b. Seller's plant all unprocessed material and scrap generated. All costs relative to burning and burying of scrap shall be at the expense of the Seller and all scrap thus disposed of shall be certified in writing to KAPL.</p> <p>D. Seller shall conform to all applicable Interstate Commerce Commission regulations in preparing and shipping the KAPL supplied material.</p> <p>9. Seller shall mail one (1) copy of his Receiving Report at time of receipt of KAPL furnished material to: Supervisor, Material Control Building M-2, Warehouse Knolls Atomic Power Laboratory Scheneectady, New York</p> <p>This order confirming telegram on August 19, 1959</p>			

REPRODUCED AT GOVT EXPENSE # 18

**Subject: Disposition of Zircaloy Scrap Accumulated  
As of 1/16/60 on Purchase Orders NFD 44191  
and NFD 44701**

**February 10, 1960**

**Metals and Controls Corporation  
Division of Texas Instruments, Inc.  
Attleboro, Massachusetts**

**Attention: Mr. M. Hayton**

**Gentlemen:**

You are hereby instructed to prepare and ship f.o.b. your plant the 126.5 pounds of zircaloy scrap listed for NFD 44191 and the 24 pounds of zircaloy scrap listed for NFD 44701 on Dr. E. E. Seiple's report No. 5 dated 1/13/60 to:

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

**Attention: Mr. L. Newman/W. D. Monk**

Please have this scrap segregated and identified by ingot and purchase order numbers. Periodically during the duration of large contracts you will be instructed to return all scrap as reported by your monthly report (KAP-2345). We hope that this policy will alleviate your storage problems and make the final accounting of KAP-furnished material easier.

Very truly yours,

**L. E. Duran - Contract Analyst  
Materials Accountability**

**LED:sal**

- bec: MF Bradt
- ES Lorr
- FC Hanny
- TW Kissinger
- CE Smith
- 8 Sturges

AUDIT OF MPD 44701 - MYC GEN PHOT  
ZIKC

REPRODUCED AT GOVT EXPENSE # 18

MATL FURNISHED BY KAPL

S/D C 633 8/28/69

112 LBS HZC 109.7

MATL RECD AT KAPL

RR 116544	2/19/60	53.5 LBS	STRIPS
RR 116544	2/19/60	55.5 "	SCRAP
TOTAL		109.0 LBS	

FAB LOSS 3.0 LBS

GRAND TOTAL 112.00 LBS

L E Duran 4/4/60

✓

✓

✓

NP044714-D

PURCHASE ORDER  
KNOLLS ATOMIC POWER LABORATORY  
P.O. BOX 1072

450-LED

PURCHASING

SCHENECTADY, NEW YORK

ORDER NO. 3-508	M. R. NO. 1267	COMM. NO.	DATE ORDERED 10/15/59	VENDOR CODE 24611
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SHOW NPD NO. ON ALL PACKAGES  
AND CORRESPONDENCE

PURCHASE ORDER NO.  
NPD 44711-D

TO  
**M & C Nuclear Inc.**  
 Attleboro, Mass.  
 Attn: Mr. R. Sager

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA <b>KAPL Messenger</b>	F.O.B. <b>Attleboro, Mass.</b>	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE <b>See Inet. #7</b>	ORDERED FOR <b>S. Bishop</b>	BLDG. <b>C-1</b>
		Room <b>158</b>	BUYER <b>R. M. Tentor/jjc</b>

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
1	13	ea	[REDACTED]			
2	2	ea	[REDACTED]			
3	2	ea	Certification in the form prescribed below: "I, _____, certify that the material and/or services called for on KAPL Purchase Order NPD # _____ have been furnished in strict accordance with the requirements of the aforesaid order." Signed: _____ Title: _____ Date: _____			
Lot Price of Items #1, #2, and #3 -----						525.00
The following instructions shall apply: 1. [REDACTED] 2. The work required by this order shall be done under the direction of Mr. S. M. Bishop of KAPL.						
(Continued Page 2)						

RECEIVED  
 OCT 21 1959  
 F. C. HANNY

REPRODUCED AT GOVT EXPENSE # 18



PURCHASE ORDER

KNOLLS ATOMIC POWER LABORATORY

P.O. BOX 1072

SCHENECTADY, NEW YORK

PURCHASING

89) REV.

PURCHASE ORDER NO.

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

**NPD 44714-D**

TO

**M & C Nuclear Inc.**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

Page 2

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			<p>3. The Seller recognizes that Zirconium in various forms possesses potentially hazardous properties. With respect to the Zirconium furnished by KAPL, the Seller assumes full responsibility and shall indemnify and hold General Electric harmless against any losses, liability, expenses or damage to the Seller or others which occur or arise while the Zirconium is in the possession and control of the Seller or anyone performing services for the Seller.</p> <p>4. With regard to the Zircaloy supplied by KAPL, the Seller shall:</p> <p>A. During the course of the work, maintain identification records and provide reports in accordance with the document entitled "Instructions to Suppliers: Accountability of Government Controlled Critical Materials" dated 5/21/58.</p> <p>B. Upon completion of the work, provide the Manager of Materials Accountability, KAPL four (4) copies of a material report containing the following information:</p>			

REPRODUCED BY GOVT EXPENSE # 118

PURCHASE ORDER  
**KNOLLS ATOMIC POWER LABORATORY**  
 P.O. BOX 1072

SCHENECTADY, NEW YORK

PURCHASING

PURCHASE ORDER NO.

**NPD 44714-D**

SHOW NPD NO. ON ALL PACKAGES  
 AND CORRESPONDENCE

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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TO

**M & C Nuclear Inc.**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

Page 3

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			1. Quantity of raw material received (in pounds and form) 2. Quantity of finished material shipped (in pounds and form) 3. Quantity of scrap generated (in pounds and form) 4. Quantity of unprocessed raw material remaining (in pounds and form) 5. Detailed losses in pounds  C. Upon receipt of information requested by (A) and (B) above, KAPL 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 burn and bury ( <u>chips, turnings, and fines will normally be burned or buried</u> ) negotiate for purchase, 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.			

REPRODUCED AT GOVT EXPENSE #18

89) REV.  
PURCHASING

PURCHASE ORDER  
KNOLLS ATOMIC POWER LABORATORY  
P. O. BOX 1072

SCHENECTADY, NEW YORK

SHOP ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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SHOW NPD NO. ON ALL PACKAGES  
AND CORRESPONDENCE

PURCHASE ORDER NO.  
**NPD 44714-5**

TO  
M & C Nuclear Inc.

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK

Page 4

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA		F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG.	BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			<p>D. Seller shall conform to all applicable Interstate Commerce Commission regulations in preparing and shipping the KAPL supplied material.</p> <p>5. A. With regard to the uranium supplied by KAPL and subsequently returned by the Seller to KAPL as product, the Seller shall prepare the required AEC Form 101. This form shall include the following information:</p> <ol style="list-style-type: none"> <li>1. Reference KAPL Purchase Order and Item numbers.</li> <li>2. Deviates from specification as referenced to waivers or inspection reports.</li> <li>3. Identify devistes.</li> <li>4. Identify extra quantities.</li> <li>5. Reference KAPL Project numbers.</li> </ol> <p>B. All shipments to KAPL of U235 excepting uranium whose isotopic U235 constituent is less than 5% or where the total uranium quantity is less than 500 grams should be made in accordance with the criticality limits set forth in KAPL's Criticality Manual A-CM-1.</p>			

REPRODUCE AT GOVERNMENT EXPENSE

1951 REV.  
PURCHASING

PURCHASE ORDER  
KNOLLS ATOMIC POWER LABORATORY  
P. O. BOX 1072

SCHENECTADY, NEW YORK

DER. NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

PURCHASE ORDER NO.

**NPD** 44714-D

TO

**M & C Nuclear**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK

Page 5

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			<p>6. Upon receipt of the KAPL supplied material mail one (1) copy of your receiving report to Supervisor, Traffic Control, Knolls Atomic Power Laboratory, P. O. Box 1072, Schenectady, New York.</p> <p>7. Delivery Requirement: KAPL requires and it is essential that delivery of the work required by this order be made within two (2) days after Seller receives the KAPL supplied material.</p> <p>8. Purchase Order Supplement No. AEC-958 General Terms and Conditions of Purchase Order are hereby amended as follows: A. Delete paragraph E under section IX entitled Government Property and substitute in lieu thereof the following: "E. The Seller shall not be liable for loss, destruction of or damage to Government furnished material, not compensated for by insurance or otherwise, resulting from processing, fabrication and burn-up of said material unless such loss, destruction or damage results from willful</p>			

(Cont Page 6)

REPRODUCED AT GOVT EXPENSE # 18

PURCHASE ORDER  
KNOLLS ATOMIC POWER LABORATORY  
P. O. BOX 1072

SCHENECTADY, NEW YORK

PURCHASING

REPRODUCTION GOVT EXPENSE 18

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

PURCHASE ORDER NO.  
**NPD 44714-D**

TO  
M & C Nuclear  
Rogers

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1	
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG.	BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			<p>CONFIRMING ORDER IF CHECKED <input type="checkbox"/></p> <p>misconduct or lack of good faith on the part of the Seller's managerial personnel, or unless such loss, destruction or damage results from a failure on the part of the Seller's managerial personnel, to take all reasonable steps to comply with any appropriate written directions of the (Contracting Officer) to safeguard such material. The term "Seller's managerial personnel" as used herein means the Seller's directors, officers and any of its managers, superintendents, or other equivalent representatives who have supervision or direction of (a) all or substantially all of the Seller's operation at any one plant or separate location at which this contract is being performed. The Seller represents that it has not included in the contract price any charge or reserve for insurance covering loss or destruction of or damage to special nuclear material, except charges or reserves for insurance normally carried by Seller as a general business expense to cover loss or destruction of or damage to special nuclear material.</p>			

M & C

P. O. BOX 898



NUCLEAR, INC.

ATTLEBORO, MASSACHUSETTS, U. S. A.

TELEPHONE 1-3600

File: KAPL-123

November 6, 1959

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

Attention: Mr. R. M. Tantor

Subject: P. O. MPD 44714-D

Gentlemen:

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

1. Certification
2. Material report (final)

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

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

Very truly yours,

\_\_\_\_\_  
R. H. Sager  
Project Administrator

RHS/bs  
Enclosures

RECEIVED

NOV 12 1959

F. C. HANNY

KAPL-123

CERTIFICATION

PURCHASE ORDER NO. WPD 44714-D

I, Richard E. Sager, certify that the services called for on KAPL Purchase Order WPD 44714-D have been furnished in strict accordance with the requirements of the aforesaid order.



Richard E. Sager  
Project Administrator  
November 6, 1959

KAPL-123

TO: Manager, Materials Accountability, KAPL

FINAL MATERIALS REPORT

PURCHASE ORDER NFD 44714-D

Quantity of raw material received		17.50
		
Quantity of finished material shipped		17.50
		
Quantity of scrap generated		0
Quantity of unprocessed raw material		0
Losses		0

R. B. Segar  
Project Administrator  
11/6/59



NPD 44770 /

PURCHASE ORDER  
KNOLLS ATOMIC POWER LABORATORY

P.O. BOX 1072

SCHENECTADY, NEW YORK

PURCHASING

PURCHASE ORDER NO.

SHOW NPD NO. ON ALL PACKAGES  
AND CORRESPONDENCE

NPD 44770

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
2-404	21198		JAN 5 1960	13611

TO

M & C Nuclear, Inc.  
Attleboro, Mass.  
Attn: Mr. W. Payrton

SHIP TO: KNOLLS ATOMIC POWER LABORATORY  
WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA <b>Gay's Express</b>	F. O. B. <b>Attleboro, Mass.</b>	TERMS -----	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE See Inst. #11	ORDERED FOR H. H. Winkler E-1 Mezz.	BLDG. BUYER R. M. Tentor/jjd

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
1	105	ea.	<p>KAPL NUCLEAR CORE QUALITY CONTROL INSPECTION REQUIRED AT SOURCE.</p> <p>[REDACTED]</p> <p>with KAPL drawing 942C141, Revision 0 Group 1 and KAPL Specification KPM 3-44 Revision 4 dated October 5, 1959 as both are amended by Instruction #1 and #9 below. (KAPL will furnish 942C141 Part 2)</p>			\$100,000.00
2	2	copies	Certification in accordance with Paragraph 4.6 of KPM 3-44 Revision 4.			Price Included in Item #1.
3	2	copies	Certification in accordance with Instruction #13 below.			Price Included in Item #1.
			Total Price of Items #1, #2 and #3 above.	-----		\$100,000.00

(Continued Page 2)

RECEIVED

JAN 7 1960

F. C. HANNY

PURCHASE ORDER  
KNOLLS ATOMIC POWER LABORATORY

PURCHASING

P.O. BOX 1072

SCHENECTADY, NEW YORK

REPRODUCED AT GOVT EXPENSE # 18

PURCHASE ORDER NO.

**NPD** 44770-Y

SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE

TO

**M & C Nuclear Inc.**

Page 2

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			<p>CONFIRMING ORDER IF CHECKED <input type="checkbox"/></p> <p><u>The following instructions shall apply:</u></p> <p>1. KAPL Specification KPM 3-44, Rev. 4 is hereby amended as follows:</p> <p>A. Paragraph 3.2.1 delete subparagraphs (a), (b), (i), (k), (m), and (n) and substitute in lieu of (a) and (i) the following:                      "(a) 3.3.1 (Zirconium Alloy-Wrought Products)                      The corrosion resistance requirements of MIL-Z-19859A shall be met for all preproduction Zircaloy [REDACTED]."                      "(i) 3.8 (Surface finish and defects) - [REDACTED]</p> <p>B. Delete paragraph 3.3.2 in its entirety.</p> <p>C. Delete paragraph 3.10 in its entirety.</p> <p>D. Delete paragraph 3.12 in its entirety.</p> <p>(Continued Page 3)</p>			

PURCHASE ORDER  
KNOLLS ATOMIC POWER LABORATORY

PURCHASING

P. O. BOX 1072

SCHENECTADY, NEW YORK

PURCHASE ORDER NO.

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE

SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

**NPD** 44770-Y

TO

M & C Nuclear Inc.

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK

Page 3

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
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ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			1. (Continued)			
			E. (a) Delete paragraph 3.13 in its entirety.			
			(b) Add to paragraph 3.5.2 - "Allowable deviation of the average loading from nominal loading (expressed as a percent of nominal loading). [REDACTED]"			
			F. Paragraphs 3.5.4, 3.5.4.1 and 4.3.2.3. In addition to performing chemistry for impurities [REDACTED] the Seller shall perform the chemistry requirements of 3.5.4 and 3.4.5.1 on one (1) out of every one hundred (100) [REDACTED]			
			G. Paragraph 3.15 - [REDACTED]			
			H. Amend Paragraph 4.2 [REDACTED]			
			I. Delete Paragraph 4.3.1.1 in its entirety.			
			(Continued Page 4)			

REPRODUCED AT GOVT EXPENSE # 18

PURCHASE ORDER  
 KNOLLS ATOMIC POWER LABORATORY

P.O. BOX 1072

SCHENECTADY, NEW YORK

PURCHASING

PURCHASE ORDER NO.

**NPD 44770-Y**

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

TO

**M & C Nuclear, Inc.**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK



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BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	<b>DO-E2 Certified under DMS Reg. 1</b>	
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG.	BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			<p>1. (Continued)</p> <p>N. Paragraph 4.4.1.1 - KAPL will perform X-Ray photometer tests to measure loading and homogeneity on an acceptance or rejection basis. Details of the test procedure will be specified by the contracting agency.</p> <p>O. Delete paragraph 4.4.2 in its entirety.</p> <p>P. </p> <p>Q. Delete Paragraph 6.1 and substitute in lieu thereof the following:</p> <p>"6.1 - Ordering Data -</p> <p>(a) </p>			
			(Continued Page 6)			

REPRODUCED AT GOVT EXPENSE # 18

PURCHASE ORDER  
KNOLLS ATOMIC POWER LABORATORY

P. O. BOX 1072

SCHENECTADY, NEW YORK

PURCHASING

PURCHASE ORDER NO.

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

**NPD** 44770-8

TO  
**M & C Nuclear, Inc.**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK

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BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1	
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG.	BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			1. Q. (Continued)			
			(f) Applicable standards are:			
			[REDACTED] KS 21715, Rev. 2			
			[REDACTED] KS 26071			
			[REDACTED] KS 26072			
			[REDACTED] KS 26073			
			[REDACTED] KS 26013			
			[REDACTED] KS 26014			
			[REDACTED] KS 26015			
			[REDACTED] KS 27519 (to be mutually agreed upon after completion)			
			(g) [REDACTED]			
			(h) Certification and test reports shall be in accordance with 4.G.			
			(Continued Page 8)			

REPRODUCED AT GOVT EXPENSE # 18

**PURCHASE ORDER**  
**KNOLLS ATOMIC POWER LABORATORY**

**PURCHASING**

**P. O. BOX 1072**

**SCHENECTADY, NEW YORK**

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE

SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

PURCHASE ORDER NO.

**NPD 44770-Y**

TO

**M & C Nuclear, Inc.**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

**Page 8**

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
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REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

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ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			<p>2. Military Standard MII-STD-271A dated January 2, 1959 is amended as follows:</p> <ul style="list-style-type: none"> <li>a. Delete Section 4.1.2 process approval (Radiographic).</li> <li>b. Delete Section 4.1.3 procedure for obtaining, etc.</li> <li>c. Change Section 4.1.4 - restriction to read  <div style="background-color: black; width: 100%; height: 20px;"></div></li> <li>d. Delete Sections 4.4.1 to and including Section 4.4.5.</li> </ul> <p>3. KAPL will furnish <div style="background-color: black; width: 100px; height: 15px;"></div> 942C141 Part 2 (683 lbs.). <div style="background-color: black; width: 100px; height: 15px;"></div>                      by the Seller to complete the work required above, it will be supplied by KAPL at Seller's expense at the rate of \$19.00 per pound. All material used by the Seller shall be certified by the Seller as being KAPL-supplied material.</p> <p align="center">(Continued Page 9)</p>			

REPRODUCED AT GOVT EXPENSE # 18

PURCHASE ORDER  
 KNOLLS ATOMIC POWER LABORATORY

PURCHASING

P. O. BOX 1072

SCHENECTADY, NEW YORK

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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SHOW NPD NO. ON ALL PACKAGES  
 AND CORRESPONDENCE

PURCHASE ORDER NO.

**NPD** 44770-2

TO

M & C Nuclear, Inc.

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

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BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
4.			<p>[REDACTED]</p> <p>A. Delete Paragraph 6.1 and substitute in lieu thereof the following:</p> <p>"6.1 - Ordering Data -</p> <p>a. KAPL Specification DLG Specification                      KPM 3-57, Revision 7 dated July 16, 1959                      entitled [REDACTED]"</p> <p>b. [REDACTED]</p>			
5.			<p>[REDACTED]</p> <p>it will be supplied by KAPL at Seller's expense at the rate of \$4.00 per gram. All material used by the Seller shall be certified by the Seller as being KAPL-supplied material.</p>			

(Continued Page 10)

FREE INFORMATION ON GOVT PURCHASES



PURCHASE ORDER

KNOLL'S ATOMIC POWER LABORATORY

PURCHASING

P.O. BOX 1072

SCHENECTADY, NEW YORK

REPRODUCED AT GOVT EXPENSE # 18

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

PURCHASE ORDER NO.

**NPD** 44770-Y

TO  
**M & C Nuclear, Inc.**  
 Page 10

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	<b>DO-E2 Certified under DMS Reg. 1</b>
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			<p>6. KAPL will furnish 1890 pounds of Zircaloy [REDACTED]</p> <p>[REDACTED]</p> <p>fabrication of spacers 9420141, Part 1. If additional Zircaloy [REDACTED] is required by the Seller to complete the work required above, it will be supplied by KAPL at Seller's expense at the rate of \$19.00 per pound. All material used by the Seller shall be certified by the Seller as being KAPL supplied material.</p> <p>7. All material supplied by KAPL, including any additional material requested, will remain the property of the government.</p> <p>8. [REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>			

(Continued Page 11)

PURCHASE ORDER  
KNOLLS ATOMIC POWER LABORATORY

PURCHASING

P. O. BOX 1072

SCHENECTADY, NEW YORK

REPRODUCED AT GOVT EXPENSE # 18

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

PURCHASE ORDER NO.

**NPD** 44770-Y

TO

M & C Nuclear, Inc.

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK

Page 11

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS) RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			8. (Continued)			
			c. [REDACTED]			
			9. KAPL drawing 942C141, Revision 0 is hereby amended as follows for the production of Item #1 above.			
			e. [REDACTED]			
			b. [REDACTED]			
			10. [REDACTED]			
			a. [REDACTED]			

(Continued Page 12)

PURCHASE ORDER  
 KNOLLS ATOMIC POWER LABORATORY

PURCHASING

P.O. BOX 1072

SCHENECTADY, NEW YORK

REPRODUCED AT GOVT EXPENSE # 18

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE

SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

PURCHASE ORDER NO.  
**NPD 44770-Y**

TO

**M & C Nuclear, Inc.**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

Page 12

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	<b>DO-E2 Certified under DMS Reg. 1</b>
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			<p>10. (Continued)</p> <p>B. Zircaloy requested for preproduction and production requirements shall be furnished by January 15, 1960. Seller shall use his Zircaloy stock material for the preproduction strips which KAPL will replace.</p> <p>C. Boron Carbide required for the production requirements shall be furnished by January 15, 1960.</p> <p>11. <u>Delivery Requirements</u></p> <p>KAPL requires and it is essential that delivery of the work required by Items #1 thru #3 be made as follows:</p> <p>A. Process outlines as required by the specifications shall be submitted for KAPL approval within seven (7) calendar days after receipt of order. Any work performed by the Seller prior to receipt of KAPL's approval of Seller's process outline shall be at Seller's risk.</p> <p>(Continued Page 13)</p>			

**PURCHASE ORDER**  
**KNOLLS ATOMIC POWER LABORATORY**  
 P. O. BOX 1072

SCHENECTADY, NEW YORK

**PURCHASING**

PURCHASE ORDER NO.

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

**NPD 44770-Y**

TO

**M & C Nuclear Inc.**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

Page 13

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	<b>DO-E2 Certified under DMS Reg. 1</b>	
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG.	BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			<p>11. (Continued)</p> <p>B. The results of the preproduction run, as required by KPM 3-44 are to be submitted for KAPL approval January 20, 1960. Any work performed by the Seller prior to receipt of KAPL's approval of Seller's preproduction run shall be at Seller's risk.</p> <p>C. Item #1 shall be delivered by March 10, 1960.</p> <p>D. The above schedule is based on KAPL providing approval of the process outline and preproduction requirements four working days after submission by Seller.</p> <p>12. KAPL General Terms and Conditions of Purchase No. AEC-958 is hereby amended to include Article 37 entitled "Government Furnished Material" as attached.</p> <p align="center">(Continued Page 14)</p>			

REPRODUCED AT GOVT EXPENSE # 18

**PURCHASE ORDER**  
**KNOLLS ATOMIC POWER LABORATORY**

**PURCHASING**

**P.O. BOX 1072**

**SCHENECTADY, NEW YORK**

REPRODUCED AT GOVT EXPENSE # 1B

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE

SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

PURCHASE ORDER NO.

**NPD 44770-Y**

TO **M & C Nuclear, Inc.**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

Page 14

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	<b>DO-E2 Certified under DMS Reg. 1</b>
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			<p>13. "Two (2) copies of a certificate in the form prescribed below:</p> <p>"I, _____, certify that the material and/or services called for on KAPL Purchase Order NPD # _____ have been furnished in strict accordance with the requirements of the aforesaid order."</p> <p>Signed: _____                      Title: _____                      Date: _____</p> <p>Send above certificates to KAPL, Attention: Warehouse Inspector/Supervising Engineer, NCO Material Process Control and Certification Group."</p>			
			<p>14. Modifications to Purchase Order Supplement No. AEC-958 are contained in Appendix 1 of this order.</p>			

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 harmless 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:

1. 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.
2. Seller shall burn and bury at his own expense, all unusable zirconium chips, fines, etc., smaller than 20 mesh (U.S. Sieve size) and all unusable zirconium turnings, shavings, etc., having a minimum dimension smaller than 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 as chips, 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

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JAN 7 1960

F. C. HANNY

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" and "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

Purchase Order NPD-44770-F

"XXVI - Taxes

A. As used throughout this article, the term "tax inclusive date" means the date of negotiated contracts and the date set for the opening of bids for contracts entered into through formal advertising. 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 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 than \$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."

PURCHASE ORDER  
KNOLLS ATOMIC POWER LABORATORY  
P. O. BOX 1072

HS2-LED  
SCHENECTADY, NEW YORK

PURCHASING

ORDER NO. 732-404	M. R. NO. 21198	COMM. NO.	DATE ORDERED 2/8/60	VENDOR CODE 3611
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SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

PURCHASE ORDER NO.  
NPD 44770-Y  
Amendment #1

TO  
M & C Nuclear, Inc.  
Attleboro, Mass.  
Attn: Mr. J. Paynton

SHIP TO: KNOLLS ATOMIC POWER LABORATORY  
WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR H. H. Winkler E-1 Mezz.	BLDG. BUYER R. M. Tantor/jja

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			<p>Purchase Order NPD 44770-Y issued under date of January 5, 1960 is hereby amended as follows:</p> <p>Add the following to Instruction #1:</p> <p>"R. Delete the following from paragraph 2.1 "MR STD (Proposed) Process Outlines, Process Specifications and Process Manuals."</p> <p>and substitute in lieu thereof the following:</p> <p>"Nuclear Core Operation-Instruction No. 19 (Process Outlines and Process Specifications."</p> <p>Delete the first sentence of Instruction #6 and substitute in lieu thereof the following:</p> <p>"6. KAPL will furnish 1,665 pounds of <del>Uraloy II</del></p>			

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F. C. HANNY

(Continued Page 2)

REPRODUCED AT GOVT EXPENSE # 18

8591 REV.

# PURCHASE ORDER KNOLLS ATOMIC POWER LABORATORY

P. O. BOX 1072

SCHENECTADY, NEW YORK

PURCHASING

PURCHASE ORDER NO.

**NPD 44770**  
Amendment #1

SHOW NPD NO. ON ALL PACKAGES  
AND CORRESPONDENCE

SHOP ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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TO

**M & C Nuclear Inc.**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK

Page 2

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			<p><b>Add the following instruction:</b></p> <p>"15. <u>Seller is hereby authorized to transfer 25 pounds of Zircaloy [redacted] ingot identity HZC-1062, from the AEC contract SCH 60-16 to KAPL contract NPD 44770-Y, with the provision that an equal amount of powder of acceptable quality is returned to the AEC contract at the time of completion of this contract.</u> identity [redacted]</p> <p><u>Purchase Order Price Summary:</u></p> <p>Original Amount of Order            \$100,000.00 Change by Amendment #1            <u>-0-</u></p> <p>Revised Amount of Purchase Order ----- \$100,000.00</p>			

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

HSD - LFD

**PURCHASING**

PURCHASE ORDER NO.

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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SHOW NPD NO. ON ALL PACKAGES  
AND CORRESPONDENCE

**NPD 44770-Y**

TO

**M & C Nuclear, Inc.**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

Page 2

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
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SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			<p><u>The following instructions shall apply:</u></p> <p>1. KAPL Specification KPM 3-44, Rev. 4 is hereby amended as follows:</p> <p>A. Paragraph 3.2.1 delete subparagraphs (a), (b), (i), (k), (m), and (n) and substitute in lieu thereof (a) and (i) the following:                      "(a) 3.3.1 (Zirconium Alloy-wrought Products) The corrosion resistance requirements of MIL-Z-19859A is waived for this order. The chemistry requirements of MIL-Z-19859A shall be met for all production and preproduction Zircaloy."                      "(i) 3.8 (Surface finish and defects) - The surface roughness [redacted] shall not exceed 250 micro-inches AA".</p> <p>B. Delete paragraph 3.3.2 in its entirety.</p> <p>C. Delete paragraph 3.10 in its entirety.</p> <p>D. Delete paragraph 3.12 in its entirety.</p> <p style="text-align: center;">(Continued Page 3)</p>			

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FEB 25 1954

F. C. HANNY

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KNOLLS ATOMIC POWER LABORATORY

P. O. BOX 1072

SCHENECTADY, NEW YORK

PURCHASING

PURCHASE ORDER NO.

NPD 44770-Y

SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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TO  
M & C Nuclear Inc.

SHIP TO: KNOLLS ATOMIC POWER LABORATORY  
WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK

Page 8

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
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SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			2. Military Standard MLL-STD-271A dated January 2, 1959 is amended as follows:  a. Delete Section 4.1.2 process approval (Radiographic)  b. Delete Section 4.1.3 procedure for obtaining, etc.  c. Change Section 4.1.4 - restriction to read "One radiograph including exposure and developing data of each strip to be sent to KAPL (RCQC) for information."  d. Delete Sections 4.4.1 to and including Section 4.4.5.			
			3. KAPL will furnish (683 lbs.) [REDACTED] by the Seller to complete the work required by above, it will be supplied by KAPL at Seller's expense at the rate of \$19.00 per pound. Seller reserves the right to purchase additional Zircaloy from KAPL or other sources provided the material is certified to Military Specification MLL-Z-1935A and the certification is approved by KAPL prior to use.  (Continued Page 9)			

PURCHASE ORDER  
**KNOLLS ATOMIC POWER LABORATORY**  
 P. O. BOX 1072

SCHENECTADY, NEW YORK

REPRODUCED AT GOVT EXPENSE # 18

REV.  
 PURCHASING

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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SHOW NPD NO. ON ALL PACKAGES  
 AND CORRESPONDENCE

PURCHASE ORDER NO.

**NPD 44770-Y**

TO

M & C Nuclear Inc.






SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

Page 9

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			4.  A. Delete Paragraph 6.1 and substitute in lieu thereof the following: "6.1 - Ordering Data - a.  b. 			
			5.  by the Seller to complete the work required above, it will be supplied by KAPL at Seller's expense at the rate of \$4.00 per gram. Seller reserves the right to purchase additional  from KAPL or other sources provided the material is certified to Military Specification MIL-Z-19059A and the certification is approved by KAPL prior to use.			

(Continued Page 10)

85) REV.  
PURCHASING

PURCHASE ORDER  
KNOLLS ATOMIC POWER LABORATORY  
P. O. BOX 1072

SCHENECTADY, NEW YORK

PURCHASE ORDER

NPD 44770-3

REPRODUCED FROM GOVT. PRINTING OFFICE # 18

SHOP ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE

SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

TO

M & C Nuclear, Inc.

SHIP TO: KNOLLS ATOMIC POWER LABORATORY  
WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK

Page 10

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			6. KAPL will furnish 1890 pounds of Zircaloy II [REDACTED] Part 1. If additional Zircaloy II is required by the Seller to complete the work required above, it will be supplied by KAPL at Seller's expense at the rate of \$19.00 per pound. Seller reserves the right to purchase additional Zircaloy II from KAPL on other sources provided the material is certified to Military Specification MIL-Z-19859A and the certification is approved by KAPL prior to use.			
			7. All material supplied by KAPL, including any additional material requested, will remain the property of the government.			
			8. [REDACTED]			
			a. [REDACTED]			
			b. [REDACTED]			

PURCHASE ORDER  
**KNOLLS ATOMIC POWER LABORATORY**  
 P.O. BOX 1072

*HSD. LED*  
**SCHENECTADY, NEW YORK**

**PURCHASING**

PURCHASE ORDER NO.

ORDER NO. 2-404	M. R. NO.	COMM. NO.	DATE ORDERED 2/17/60	VENDOR CODE 3611
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SHOW NPD NO. ON ALL PACKAGES  
 AND CORRESPONDENCE

**NPD 44770-Y**  
 Amendment #2

TO  
**M & C Nuclear, Inc.**  
**Attleboro, Mass.**  
**Attn: Mr. W. Paynton**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1	
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG.	BUYER
	See Inst. #16 below	H. H. Winkler	E-1 Mezz.	R. M. Tentor/jjd
This order placed pursuant to Gov't Prime Contract No.		<input type="checkbox"/> AEC W-31-109 ENG. 52	<input type="checkbox"/> NAVY NOBS 56405	<input type="checkbox"/> NAVY NOBS 72103
Subject to general terms and conditions of attached Purchase Supplement		<input checked="" type="checkbox"/> AEC - 958	<input type="checkbox"/> NAVY - 858	<input type="checkbox"/>

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			Purchase Order NPD 44770-Y issued under date of January 5, 1960 amended to date, is hereby further amended as follows:			
			Add the following item:			
5	5	ea.	[REDACTED]			
5	4	ea.	[REDACTED]			
			The following instructions shall apply:			
			15. KAPL requires and it is essential that delivery be as follows:			
			(Continued Page 2)			

**RECEIVED**  
 FEB 4 1960  
**F. C. HANNY**

REPRODUCED AT GOVT EXPENSE # 18



CHASING

PURCHASE ORDER  
KNOLLS ATOMIC POWER LABORATORY  
P. O. BOX 1072

SCHENECTADY, NEW YORK

REPRODUCED AT GOVT EXPENSE # 18

REV.	OF ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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TO

M & C Nuclear, Inc.

Page 2

SHOW NPD NO. ON ALL PACKAGES  
AND CORRESPONDENCE

PURCHASE ORDER NO.

NPD 44770-Y  
Amendment #2

SHIP TO: KNOLLS ATOMIC POWER LABORATORY  
WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			16. (Continued)			
			a) Item 4 on or before February 23, 1960.			
			b) Item 5 shall be delivered four (4) calendar days after receipt of two (2) extrusions (Item 4) from KAPL.			
			17. KAPL will supply 20 pounds of 3 1/4" diameter Zircaloy rod. If the amount of Zircaloy requested by the Seller and furnished by KAPL is insufficient to complete the work required by this order, additional Zircaloy can be supplied by KAPL at Seller's expense at the rate of \$19.00 per pound. Seller reserves the right to purchase additional Zircaloy from KAPL or other sources provided the material is certified to Military Specification MIL-Z-19859A and the certification is approved by KAPL prior to use.			
			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.			
			(Continued Page 3)			

**PURCHASE ORDER**  
**KNOLLS ATOMIC POWER LABORATORY**

P. O. BOX 1072

SCHEENCTADY, NEW YORK

ASING

PURCHASE ORDER NO.

SHOW NPD NO. ON ALL PACKAGES  
AND CORRESPONDENCE

**NPD 44770-Y**  
Amendment #2

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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TO

**M & C Nuclear, Inc.**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHEENCTADY, NEW YORK

Page 3

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			<b><u>Purchase Order Price Summary:</u></b>			
			Original Amount of Order	\$100,000.00		
			Change by Amendment #1	-0-		
			Increase by Amendment #2	<u>1,500.00</u>		
			Revised Total Amount of Purchase Order			-----\$101,500.00

REPRODUCED AT GOVT EXPENSE # 18

PURCHASE ORDER  
**KNOLLS ATOMIC POWER LABORATORY**

P. O. BOX 1072

SCHENECTADY, NEW YORK

**PURCHASING**

REPRODUCTION OF GOVT EXPENSE # 18

OP ORDER NO. S. Below	M. R. NO.	COMM. NO.	DATE ORDERED <b>APR 11 1960</b>	VENDOR CODE 3011
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SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

PURCHASE ORDER NO.

**NPD 44770-Y**

Amendment # 3

TO  
**M & C Nuclear, Inc.**  
**Attleboro, Mass.**  
**Attn: Mr. V. Paynton**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	<b>DO-E2 Certified under DMS Reg. 1</b>
REQUESTED ON SITE	DELIVERY DATE See Inst. 22 below	ORDERED FOR <b>H. H. Winkler</b>	BLDG. BUYER <b>E-1 Mezz. R. M. Tentor/jjd</b>

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			<p>CONFIRMING ORDER IF CHECKED <input type="checkbox"/></p> <p>Purchase Order NPD 44770-Y issued under date of January 5, 1960 as amended to date, is hereby further amended as follows:</p> <p>Delete the first sentence of Instruction 6 and substitute in lieu thereof the following:</p> <p>6. KAPL will furnish 1,783 pounds of Zircaloy 3 1/2" diameter bar suitable for use on this order;</p> <p>[REDACTED]</p> <p>Part 1 and 185 pounds of 1 1/2" diameter Zircaloy bar (Ingot identity MZC 1111)."</p> <p>Delete Instruction #1.N. and substitute in lieu thereof the following:</p> <p>N. Paragraph 4.4.1.1 - KAPL will perform x-ray photometer tests to measure loading and homogeneity on an acceptance or rejection basis. The details of the procedure for testing are:</p> <p>(Continued Page 2)</p>			

**RECEIVED**  
 APR 19 1960  
**F. C. HANNY**

PURCHASE ORDER  
**KNOLLS' ATOMIC POWER LABORATORY**  
 P.O. BOX 1072

SCHENECTADY, NEW YORK

REV.  
 PURCHASING

PURCHASE ORDER NO.

SHOW NPD NO. ON ALL PACKAGES  
 AND CORRESPONDENCE

NPD 44770-Y  
 Amendment #3

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

OP ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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TO  
**M & C Nuclear Inc.**

Page 2

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			(a) KAPL will x-ray photometer all double length <div style="background-color: black; height: 20px; width: 100%;"></div>			
			(b) KAPL will x-ray photometer 10 of every 100 strips fabricated to final length and cross section." Additional Price - \$5,000 Revised Cost of Item 1 - \$103,000			
			<u>ADD THE FOLLOWING ITEMS:</u>			
6	4	ea.	Cut Chemical certification samples from the KAPL supplied 3 1/2" diameter Zircaloy bar stock. Seller shall ship samples to KAPL for Chemical Analysis. Price - \$104			
7			Additional work required to use KAPL supplied Zircaloy plate stock <div style="background-color: black; height: 15px; width: 100%;"></div> for Part 1 of drawing 942C141 due to the change in length. Price - \$350			

(Continued Page 3)

REPRODUCED AT GOVT EXPENSE # 18

**PURCHASE ORDER**  
**KNOLLS ATOMIC POWER LABORATORY**

P.O. BOX 1072

SCHENECTADY, NEW YORK

REV. PURCHASING

SHOP ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE

SHOW NPD NO. ON ALL PACKAGES  
AND CORRESPONDENCE

PURCHASE ORDER NO.

**NPD** 44770-  
Amendment #

TO  
**M & C Nuclear, Inc.**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK




Page 3

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	<b>DO-E2 Certified under DMS Reg. 1</b>
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
8	13	ea.	 for 942C141, Part 1. Price - \$71			
	34	ea.	 dated October 5, 1959 as amended by Instructions 1, 9, 18, 19 and 20. Total Price - \$11,030			
10	10	ea.	 Unit Price - \$224, Total Price - \$2,240			

(Continued Page 4)

REPRODUCTION AT GOV. EXPENSE # 18

REV.  
PURCHASING

PURCHASE ORDER  
KNOLLS ATOMIC POWER LABORATORY  
P.O. BOX 1072

SCHENECTADY, NEW YORK

SHOP ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE

SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

PURCHASE ORDER NO. **NPD 44770-**  
Amendment 1

TO  
M & C Nuclear Inc.




SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK

Page 4

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
11	10	ea.	 Unit Price - \$224, Total Price - \$2,240  <u>THE FOLLOWING INSTRUCTIONS SHALL APPLY:</u>  18.   19. Seller shall destructively test a minimum 			

(Continued Page 5)

REPRODUCE AT GOVT EXPENSE

**PURCHASE ORDER**  
**KNOLLS ATOMIC POWER LABORATOR**

P. O. BOX 1072

SCHENECTADY, NEW YORK

BUYING

PURCHASE ORDER NO.

**NPD-4770-Y**

Amendment #3

SHOW NPD NO. ON ALL PACKAGES  
AND CORRESPONDENCE

SHOP ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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TO  
**M & C Nuclear Inc.**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

Page 5

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	<b>DO-E2 Certified under DMS Reg. 1</b>
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
20.			KAPL will furnish 8.5 feet of 3 1/4" diameter Zircaloy (Approx. 200 lbs.) and 420 grams air milled [REDACTED] Item 9. If additional Zircaloy II or Boron Carbide is required by Item 9, it will be supplied by KAPL at Seller's expense at the rate of \$19.00 per pound and \$4.00 per gram respectively. Seller reserves the right to purchase additional Zircaloy [REDACTED] from KAPL or other sources provided the material is certified to Military Specification MLL-7-19859A and the certification is approved by KAPL prior to use.			
21.			KAPL will furnish 100 pounds of 3 1/4" - 3 1/2" Zircaloy bar; [REDACTED] If additional Zircaloy II or [REDACTED] is required by the Seller to complete the work required by Items 10 and 11, it will be supplied by KAPL at Seller's expense at the rate of \$19.00 per pound and \$4.00 per gram respectively.			

(Continued Page 6)

REPRODUCE AT GOVT EXPENSE # 18

PURCHASE ORDER  
**KNOX ATOMIC POWER LABORATORY**

P. O. BOX 1072

SCHENECTADY, NEW YORK

CHASING

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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SHOW NPD NO. ON ALL PACKAGES  
AND CORRESPONDENCE

PURCHASE ORDER NO.

**NPD 44770-1**  
Amendment 13

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

TO  
**M & C Nuclear Inc.**

Page 6

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	<b>DO-E2 Certified under DMS Reg. 1</b>
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DELIVER TO:	UNIT PRICE	DISCOUNT	NET TOTAL
CONFIRMING ORDER IF CHECKED <input type="checkbox"/>						
			<p>21. (Continued)</p> <p>Seller reserves the right to purchase additional Zircaloy II [REDACTED] from KAPL or other sources provided the material is certified to Military Specification MIL-Z-19859A and the certification is approved by KAPL prior to use.</p> <p>22. KAPL requires and it is essential that delivery be as follows:</p> <p>Items 6, 7 and 8 - 14 calendar days after order placement.                      Item 9 - 21 calendar days after order placement.                      Items 10 and 11 - 14 calendar days after order placement.</p> <p>23. [REDACTED]</p> <p>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.</p> <p style="text-align: center;">(Continued Page 7)</p>			

REPRODUCED AT GOVT EXPENSE # 18



**PURCHASE ORDER**  
**KNOLL ATOMIC POWER LABORATORY**

P. O. BOX 1072

SCHENECTADY, NEW YORK

CHASING

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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SHOW NPD NO. ON ALL PACKAGES  
AND CORRESPONDENCE

PURCHASE ORDER NO.

**770-Y**  
**NPD**  
 Amendment #3

TO  
**M & C Nuclear Inc.**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

Page 7

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DELIVER TO:	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			<b><u>PURCHASE ORDER PRICE SUMMARY:</u></b>			
			Original Amount of Order	\$100,000		
			Change by Amendment #1	-0-		
			Increase by Amendment #2	1,500		
			Increase by Amendment #3	<u>19,095</u>		
			Revised Total Amount of Purchase Order			\$120,595
			"Certified for national defense use under DMS Reg. 1" and "You are required to follow the provisions of DMS Reg. 1 and of all other applicable regulations and orders of BDSA in obtaining controlled materials and other products and materials needed to fill this order."			
			Shop Order - 913-519 - \$4,480			
			732-404 - \$14,615			

REPRODUCED AT GOVT EXPENSE # 18

PURCHASE ORDER  
 KNOLLS ATOMIC POWER LABORATORY  
 P. O. BOX 1072

HSD - KES  
 SCHENECTADY, NEW YORK

PURCHASING

PURCHASE ORDER NO.

ORDER NO. 732-404	M. R. NO.	COMM. NO.	DATE ORDERED APR 15 1960	VENDOR CODE 3611
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SHOW NPD NO. ON ALL PACKAGES  
 AND CORRESPONDENCE

**NPD** 44770  
 Amendment #1

TO  
 M & C Nuclear, Inc.  
 Attleboro, Mass.  
 Attn: Mr. W. Paynton

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR H. H. Winkler Mess. E-1	BLDG. BUYER R. M. Tentor/jjd

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DELIVER TO:	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			
			Purchase Order NPD 44770-Y issued under date of January 5, 1960 as amended to date is hereby further amended as follows:  Delete Item 1 in its entirety and substitute in lieu thereof the following:  [REDACTED] assemblies in accordance with KAPL drawing 942C141, Rev. 0, Group 1; KAPL Specification KPM 3-44, Rev. 4 dated October 5, 1959 as both are amended by Instruction 1 and 9 and the following requirements:  (a) [REDACTED]  (b) [REDACTED]  (c) [REDACTED]			
1	105	ea.				

RECEIVE  
 APR 24 1960  
 F. C. HANN

(Continued Page 2)

REPRODUCED AT GOVT EXPENSE # 18

PURCHASE ORDER  
**KNOLLS ATOMIC POWER LABORATORY**

P. O. BOX 1072

SCHENECTADY, NEW YORK

PURCHASING

PURCHASE ORDER NO.

SHOW NPD NO. ON ALL PACKAGES  
 AND CORRESPONDENCE

**NPD** 44770-  
 Amount \$14

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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TO

**H & C Nuclear, Inc.**

Page 2

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1	
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG.	BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DELIVER TO:	UNIT PRICE	DISCOUNT	NET TOTAL
			<p>CONFIRMING ORDER IF CHECKED <input type="checkbox"/></p> <p>(a) [REDACTED]</p> <p>Seller guarantees that ninety (90) assemblies of Item 1 will meet the above requirements.</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>(2) [REDACTED]</p> <p>[REDACTED]</p> <p>KAPL will furnish [REDACTED] and 101 pounds of 3 1/4" diameter Zircaloy II bar. If additional [REDACTED] or Zircaloy II bar is required to complete the work required above, it will be supplied by KAPL at Seller's expense at the rate of \$4.00 per gram and \$19.00 per pound respectively.</p> <p>(Continued Page 3)</p>			

REPRODUCED AT GOV'T EXPENSE # 18

**PURCHASE ORDER**  
**KNOLLS ATOMIC POWER LABORATORY**  
 P. O. BOX 1072

SCHENECTADY, NEW YORK

**PURCHASING**

PURCHASE ORDER NO.

SHOW NPD NO. ON ALL PACKAGES  
AND CORRESPONDENCE

**NPD** 44770-1  
Amendment #1

TOP ORDER NO.	M. R. NO.	COMM. NO.	DATE ORDERED	VENDOR CODE
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TO

**M & C Nuclear, Inc.**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
 WAREHOUSE BLDG. M-2  
 SCHENECTADY, NEW YORK

Page 3

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE.  
 ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL.

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL										
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>													
			<p>Seller reserves the right to purchase additional [redacted] or Zircaloy from KAPL or other sources provided the material is certified to KAPL Specification KPM 3-57, Rev. 7 or MIL-Z-19859A as applicable and the certification is approved by KAPL prior to use.</p> <p>Additional Price \$8,520                      Revised Cost of Item 1 \$111,520</p> <p>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.</p> <p><u>PURCHASE ORDER PRICE SUMMARY:</u></p> <table> <tr> <td>Original Amount of Order</td> <td align="right">\$100,000</td> </tr> <tr> <td>Change by Amendment #1</td> <td align="right">-0-</td> </tr> <tr> <td>Increase by Amendment #2</td> <td align="right">1,500</td> </tr> <tr> <td>Increase by Amendment #3</td> <td align="right">19,095</td> </tr> <tr> <td>Increase by Amendment #4</td> <td align="right"><u>8,520</u></td> </tr> </table> <p align="right">Revised Total Amount of Purchase Order ----- \$129,115</p>	Original Amount of Order	\$100,000	Change by Amendment #1	-0-	Increase by Amendment #2	1,500	Increase by Amendment #3	19,095	Increase by Amendment #4	<u>8,520</u>			
Original Amount of Order	\$100,000															
Change by Amendment #1	-0-															
Increase by Amendment #2	1,500															
Increase by Amendment #3	19,095															
Increase by Amendment #4	<u>8,520</u>															

REPRODUCED BY THE GOVT. TELETYPE UNIT

**Subject: Disposition Instructions for KAPL-Supplied  
Uranium Under Purchase Order NPD 44770**

**June 23, 1960**

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

**Attention: Mr. E. C. Duffy**

**Gentlemen:**

**The material utilization report for Government-controlled uranium and Pu-239 supplied by KAPL for purchase order NPD 44770 as submitted with your letter of June 8, 1960, has been reviewed and found to be satisfactory.**

**Will you please prepare and ship f.o.b. your plant the 1,613.5 pounds of non-usable scrap and the 117.6 pounds of usable material to:**

**Knolls Atomic Power Laboratory  
Building N-2, Warehouse  
Schuylkill, New York**

**Attention: Mr. L. Newman/lt. J. Gallagher**

**All of this material should be shipped under NPD 44770 and identified by the respective ingot numbers. Thank you for your cooperation in assisting us to close out this purchase order.**

**Very truly yours,**

**L. E. Duran - Contract Analyst  
Materials Accountability**

**LED:mal**

- doc: MF Bradt**
- ES Dorr**
- WJ Gallagher**
- FC Hanny**
- TV Kissinger**
- EH Nistler**

M & C

P. O. BOX 898



NUCLEAR, INC.

ATTLEBORO, MASSACHUSETTS, U. S. A.

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 B<sub>4</sub>C 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 B<sub>4</sub>C  
[REDACTED] 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  
Materials Accountability  
Representative

KCD-bl

## Materials Utilization Report - NPD 44770 (KAPL-136)

ZIRCALOYReceipts

Received from Jessop	3438.0#	✓
Received from KAPL	178.9#	✓
Received from SCH-60-16	<u>195.4#</u>	✓
 Total Receipts		
	3812.3#	✓

Disbursements

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

B4C [REDACTED]Receipts

Received from KAPL	100.7#
--------------------	--------

Disbursements

Product Weight	94.6#
Material on Hand	.2#
Process Loss	<u>5.9#</u>
 Total Disbursements	
	100.7#

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

Product Weight

<u>Description</u>	<u>Heat</u>	<u>Weight</u>	
Zirc [REDACTED]	HZC1046 & 28248	204.4#	
[REDACTED]	HZC1045, 1046, 1062	286.5#	
End Caps [REDACTED]	HZC1111	63.4#	
[REDACTED]	HZC1112	210.0#	
	OM-89	<u>71.3#</u>	835.6#
<u>Shipped to KAPL</u>			
3-1/4 dia. rod [REDACTED]	HZC1045, 1046	751.6#	
	OM-89	<u>80.5#</u>	832.1#
<u>Transferred to SGH-60-16</u>			
[REDACTED]	HZC1045 & 1046	55.5#	55.5#
<u>Chips &amp; Turnings Burned at M &amp; C</u>			
			104.4#
<u>Non-Usable Scrap on Hand</u>			
End Crops from Tubing Billets [REDACTED]	HZC1045, 1046	508.0#	
[REDACTED]	HZC1045, 1046	84.0#	
Chips & Scrap	HZC1046, 1112, 1045	<u>1021.5#</u>	1613.5#
<u>Usable Material on Hand</u>			
1-1/8 OD Tubing [REDACTED]	HZC1045 & 1046	35.8#	
[REDACTED]	HZC1112	10.0#	
[REDACTED]	HZC1046	.6#	
[REDACTED]	HZC1045, 1046	26.5#	
1-1/4 Dia. Rod	HZC1046	18.0#	
2-1/2 Dia. Rod	HZC1046	10.0#	
1.375 Dia. Rod	HZC1046	7.0#	
[REDACTED]	HZC1111	7.0#	
	OM-89	<u>2.7#</u>	117.6#
<u>Material Loss in Process</u>			
Zirc II [REDACTED]	HZC1046, 28248	11.0#	
Machining Loss	HZC1111, 1045, 1046 1112	<u>243.6#</u>	<u>253.6#</u>
			3812.3#



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

Received from Jessop

[REDACTED]	HZC-1112	719#	
3-1/4 Zirc Rod	HZC-1045 & 1046	<u>2719#</u>	3438.0#

Received from KAPL

[REDACTED]	OM-89	178.9#	178.9#
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Received from SCH-60-16

1-1/2" Zirc Rod	HZC-1111	195.4#	<u>195.4#</u>
			3812.3#

✓

✓

✓

00078-2

PURCHASE ORDER

KNOLLS ATOMIC POWER LABORATORY

PURCHASING

P.O. BOX 1072

SCHENECTADY, NEW YORK

OPERATED BY THE GENERAL ELECTRIC COMPANY UNDER GOVERNMENT CONTRACT W-31-109-ENG.-52

REPRODUCED AT GOVT EXPENSE #19

SHOP ORDER NO. <b>734236</b>	M.F. NO. <b>21964</b>	DATE ORDERED <b>4/25/61</b>	VENDOR CODE <b>3621</b>
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SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

PURCHASE ORDER NO.  
**NPD 00078-Y**

TO  
**Metals and Controls, Inc.  
M & C Nuclear Products  
P. O. Box 898  
Attleboro, Massachusetts**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY  
WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK**

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO:  
**FINANCE - ACCOUNTS PAYABLE**  
ON PREPAID SHIPMENTS F.O.B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL

SHIP VIA	F.O.B. <b>Destination</b>	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE <b>See Instruction No. 8</b>	ORDERED FOR <b>L. Roth</b>	BLDG. BUYER <b>B-1 R. M. Taylor/ma</b>

THIS ORDER SUBJECT TO GENERAL TERMS AND CONDITIONS OF ATTACHED PURCHASE SUPPLEMENT NO. **AEC-958** FUNDING: **W-31**

ITEM	QUANTITY	UNIT	DELIVER TO: <b>L. Roth</b>	<b>B-1</b> (BUILDING) (ROOM)	UNIT PRICE	DISCOUNT	NET TOTAL
1	5	ea.	In accordance with Supplement A to NPD 00078-Y dated April 25, 1961.				\$ 1,700.00
2	5	ea.	In accordance with Supplement A to NPD 00078-Y dated April 25, 1961.				900.00
3	5	ea.	In accordance with Supplement A to NPD 00078-Y dated April 25, 1961.				900.00
4A	10	ea.	In accordance with Supplement A to NPD 00078-Y dated April 25, 1961.				1,800.00
4B	10	ea.	In accordance with Supplement A to NPD 00078-Y dated April 25, 1961.				1,800.00

CONTINUED ON PAGE 2

THIS ORDER CONSISTS OF 3 PAGES.

GENERAL  ELECTRIC

When Separated From Enclosures, Handle This

Document As undeclassified

PURCHASE ORDER

KNOLLS ATOMIC POWER LABORATORY

P.O. BOX 1072

SCHENECTADY, NEW YORK

OPERATED BY THE GENERAL ELECTRIC COMPANY UNDER GOVERNMENT CONTRACT W-31-109-ENG.-52

BUYING

PURCHASE ORDER NO.

SHOP ORDER NO.

M.R. NO.

DATE ORDERED

VENDOR CODE

SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

NPD 00078-Y

TO

Metals and Controls, Inc.

PAGE 2

SHIP TO: KNOLLS ATOMIC POWER LABORATORY

WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO:  
FINANCE - ACCOUNTS PAYABLE  
ON PREPAID SHIPMENTS F.O.B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL

SHIP VIA

F.O.B.

TERMS

DO-E2 Certified under  
DMS Reg. 1

REQUESTED ON SITE

DELIVERY DATE

ORDERED FOR

BLDG.

BUYER

THIS ORDER SUBJECT TO GENERAL TERMS AND CONDITIONS OF ATTACHED PURCHASE SUPPLEMENT NO. \_\_\_\_\_

FUNDING: \_\_\_\_\_

ITEM	QUANTITY	UNIT	DELIVER TO:	UNIT PRICE	DISCOUNT	NET TOTAL
			(BUILDING) (ROOM)			
5	2	pcs.	<p><b>Certifications in the form prescribed below:</b></p> <p>"I, _____, certify that the material and/or services called for on KAPL Purchase Order NPD #00078-Y have been furnished in strict accordance with the requirements of the aforesaid order.</p> <p>Signed: _____ Title: _____ Date: _____</p> <p><b>TOTAL PRICE FOR ITEMS 1 - 5 ABOVE . . . . . \$ 7,100.00</b></p> <p><b>THE FOLLOWING INSTRUCTIONS SHALL APPLY:</b></p> <p>1. In accordance with Supplement A.</p> <p>2. Seller shall supply all other materials required for _____</p> <p>3. In accordance with Supplement A.</p> <p><b>CONTINUED ON PAGE 3</b></p>			

THIS ORDER CONSISTS OF 3 PAGES.

GENERAL  ELECTRIC

REPRODUCED AT GOVT EXPENSE # 18

PURCHASE ORDER  
**KAPL ATOMIC POWER LABORATORY**

3 OF 3 PAGES. VENDOR Metals and Controls, Inc. PURCHASE ORDER NO. 00078-Y

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 [REDACTED]
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 Purchase 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, in 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 Conditions 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 EDSA in obtaining controlled materials and other products and needed to fill this order.

GENERAL  ELECTRIC

SUPPLEMENT "A" TO KAPL PURCHASE ORDER KPD 00078-Y

April 23, 1961

Item 1 - [REDACTED]

Item 2 - 5 each - SAME AS ITEM 1 ABOVE.

Item 3 - 5 each - SAME AS ITEM 1 ABOVE.

Item 4A - 10 each - SAME AS ITEM 1 ABOVE.

Item 4B - 10 each - SAME AS ITEM 1 ABOVE.

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 items of Government property for use in connection with and under the terms of this order:

a. [REDACTED]

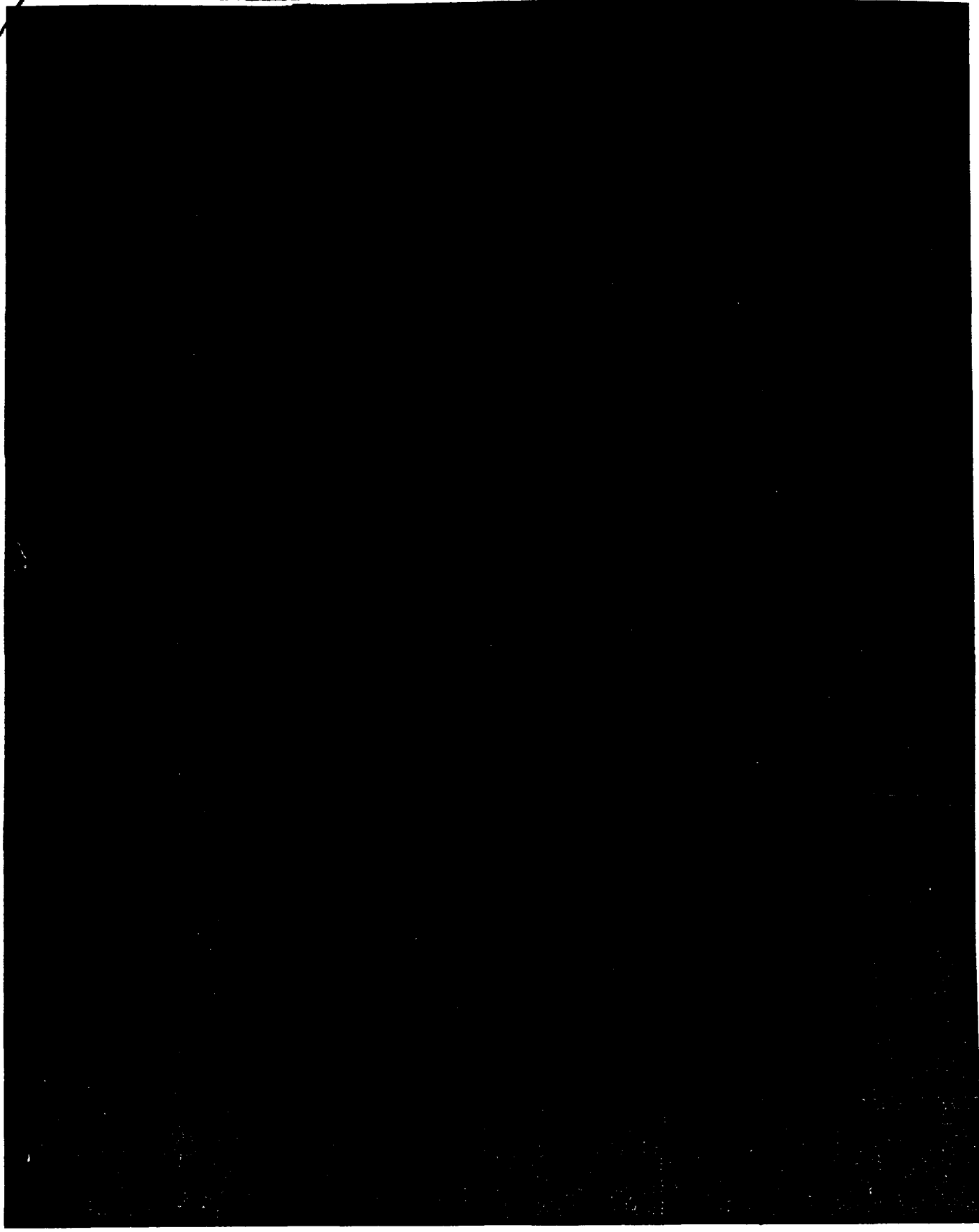
b. [REDACTED]

If the amount [REDACTED] and furnished by KAPL is insufficient to cover the work required by this order, additional [REDACTED] and Zircaloy-4 can be purchased from KAPL at Seller's expense at the price of \$1800. per [REDACTED] and \$16.00 per lb. of Zircaloy-4. Seller also has the option to purchase additional Zircaloy-4 material from other sources provided it is certified to the order requirements and the certification is approved by KAPL prior to use. All material used by the Seller for the work required by this order shall be certified by the Seller as being KAPL-supplied material or other KAPL-approved material.

2. Seller shall perform the following work:

a. [REDACTED]

After the completion of Item 1 the design may change for subsequent items but the redesign will be within the drawing dimensions as included herein.



R. N. Tentor

**PURCHASE ORDER**

**KNOLLS ATOMIC POWER LABORATORY**

PURCHASING

P.O. BOX 1072

SCHENECTADY, NEW YORK

OPERATED BY THE GENERAL ELECTRIC COMPANY UNDER GOVERNMENT CONTRACT W-31-109-ENG.-52

REPRODUCED AT GOVT EXPENSE # 18

SHOP ORDER NO. <b>7348236</b>	M.R. NO. <b>51367</b>	DATE ORDERED <b>7/7/61</b>	VENDOR CODE <b>3611</b>
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SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

PURCHASE ORDER NO.  
**NPD 00078-Y**  
**Attachment #1**

TO  
**Metals and Controls, Inc.  
M & C Nuclear Products  
P. O. Box 898  
Attleboro, Massachusetts  
Attn: R. Sagar**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO:  
**FINANCE - ACCOUNTS PAYABLE**  
ON PREPAID SHIPMENTS F.O.B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL

SHIP VIA	F.O.B. <b>Destination</b>	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR <b>L. Roth</b>	BLDG. <b>E-1</b> BUYER <b>R. N. Yastor/jar</b>

THIS ORDER SUBJECT TO GENERAL TERMS AND CONDITIONS OF ATTACHED PURCHASE SUPPLEMENT NO. **AWO-998** FUNDING: **E-31**

ITEM	QUANTITY	UNIT	DELIVER TO: <b>L. Roth</b> <b>(BUILDING)</b> (ROOM)	UNIT PRICE	DISCOUNT	NET TOTAL
			<b>Purchase Order NPD 00078-Y issued under date of April 25, 1961, is hereby amended in order to add item 2A 2B and 3A and 6 as follows:</b>			
<b>2A</b>	<b>1</b>	<b>ea.</b>	[REDACTED]			<b>\$378.33</b>
	<b>1</b>	<b>ea.</b>	[REDACTED] <b>in accordance with the requirements of item 2. This item shall be produced with item 2.</b>			<b>378.34</b>
<b>3A</b>	<b>1</b>	<b>ea.</b>	[REDACTED] <b>in accordance with the requirements of Item 3. This item shall be produced with Item 3.</b>			<b>378.33</b>

THIS ORDER CONSISTS OF 2 PAGES.



TO AEC



PURCHASING

PURCHASE ORDER

KNOLLS ATOMIC POWER LABORATORY

P.O. BOX 1072

SCHENECTADY, NEW YORK

OPERATED BY THE GENERAL ELECTRIC COMPANY UNDER GOVERNMENT CONTRACT W-31-109-ENG.-52

SHOP ORDER NO.	M.R. NO.	DATE ORDERED	VENDOR CODE
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PURCHASE ORDER NO.

NPD 00078-1

SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

Amendment #1

TO

Metals and Controls, Inc.

SHIP TO: KNOLLS ATOMIC POWER LABORATORY

WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK

-Page 2-

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO:  
FINANCE - ACCOUNTS PAYABLE  
ON PREPAID SHIPMENTS F.O.B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL

SHIP VIA	F.O.B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

THIS ORDER SUBJECT TO GENERAL TERMS AND CONDITIONS OF ATTACHED PURCHASE SUPPLEMENT NO. \_\_\_\_\_ FUNDING: \_\_\_\_\_

ITEM	QUANTITY	UNIT	DELIVER TO: (BUILDING) (ROOM)	UNIT PRICE	DISCOUNT	NET TOTAL						
6	18		[REDACTED]			\$575.00						
<p>Add the following to Instruction 1 [REDACTED] on Sketch Drawing 51-12-100.</p> <p>Add the following instruction "12. Seller is hereby authorized [REDACTED] [REDACTED] as produced for item 4 of the order."</p> <p>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.</p> <p><u>PURCHASE ORDER PRICE SUMMARY</u></p> <table> <tr> <td>Original Amount of Order</td> <td>\$7,100.00</td> </tr> <tr> <td>Increase by this Amendment #1</td> <td>1,710.00</td> </tr> <tr> <td><b>REVISED PRICE OF ORDER</b></td> <td><b>\$8,810.00</b></td> </tr> </table>							Original Amount of Order	\$7,100.00	Increase by this Amendment #1	1,710.00	<b>REVISED PRICE OF ORDER</b>	<b>\$8,810.00</b>
Original Amount of Order	\$7,100.00											
Increase by this Amendment #1	1,710.00											
<b>REVISED PRICE OF ORDER</b>	<b>\$8,810.00</b>											

THIS ORDER CONSISTS OF 2 PAGES.

GENERAL  ELECTRIC

REPRODUCED AT GOVT EXPENSE #18

**PURCHASE ORDER**

**KNOLLS ATOMIC POWER LABORATORY**

*To AEC*

PURCHASING

P.O. BOX 1072

SCHENECTADY, NEW YORK

OPERATED BY THE GENERAL ELECTRIC COMPANY UNDER GOVERNMENT CONTRACT W-31-109-ENG.-52

SHOP ORDER NO. <b>7348236</b>	M.R. NO. <b>10-34</b>	DATE ORDERED <b>8/4/61</b>	VENDOR CODE <b>3611</b>
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SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

PURCHASE ORDER NO.  
**NPD 00078-Y**  
**Amendment #2**

TO  
**Metals and Controls, Inc.  
M & C Nuclear Products  
P.O. Box 898  
Attleboro, Massachusetts  
Attn: Mr. R. Seger**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK  
BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS:) RENDER INVOICES IN DUPLICATE TO:  
**FINANCE-ACCOUNTS PAYABLE**  
ON PREPAID SHIPMENTS F.O.B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL

SHIP VIA	F.O.B. <b>Destination</b>	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR <b>L. Roth</b>	BLDG. <b>E-1</b> BUYER <b>R. M. Tentor/jar</b>

THIS ORDER SUBJECT TO GENERAL TERMS AND CONDITIONS OF ATTACHED PURCHASE SUPPLEMENT NO. **ABC-958** FUNDING: **W-31**

ITEM	QUANTITY	UNIT	DELIVER TO: (BUILDING) (ROOM)	UNIT PRICE	DISCOUNT	NET TOTAL
			<p>Purchase Order NPD 00078-Y issued under date of 4/25/61 as amended to date is hereby further amended for the purpose of (1) deleting items 2 thru 4B in their entirety; decreasing the purchase order price accordingly. (2) Adding new Item 2 increasing the purchase order price by (Net \$255) (3) Reducing Item 6 accordingly.</p> <p>Delete Items 2, 2A, 3A, 4A and 4B in their entirety and substitute in lieu thereof the following:</p> <p>In accordance with Supplement A to NPD 00078-Y dated August 4, 1961.</p> <p>Delete Item 6 in its entirety and substitute in lieu thereof the following:</p>			
2	5	ea.				\$6,872.00
3	6					\$115.00
<b>TOTAL REVISED AMOUNT OF PURCHASE ORDER</b>						<b>\$9,065.00</b>

THIS ORDER CONSISTS OF \_\_\_\_\_ PAGES.



PURCHASE ORDER  
KNOLLS ATOMIC POWER LABORATORY

2 OF 2 PAGES. VENDOR M & C Nuclear Corp. PURCHASE ORDER NO. 00078-

REPRODUCED AT GOVT EXPENSE # 18

Add subparagraph D to Instruction 1 as follows:

"d (2) [REDACTED]

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 entitled "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 BDSA 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

TOTAL REVISED AMOUNT OF PURCHASE ORDER-----\$9,065.00

[REDACTED]

General Electric Company  
KNOLLS ATOMIC POWER LABORATORY  
Schenectady, New York

August 1, 1961

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

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

References: (1) Inquiry IV-4, dated July 11, 1961 (NPD 00078-Y)  
(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 [REDACTED] is within the KAPL estimate. The following is a breakdown of the M&C Contract NPD 00078-Y:

1. Dollars Already Spent

Cost Items 1 & 1A	\$2,193
Close out charges Items 1-4B	<u>2,622</u>
Total dollars spent	\$4,815

2. Dollars New Item 2

Dollars Acc. (Est.)	4,250
Dollars presently committed	<u>\$9,065</u>
Dollars this change (Est.)	<u>\$ 255</u>

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

1. KAPL will furnish Zr-2 material [REDACTED]
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  
Herbert F. Brown, Manager

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

LR/vdz

[REDACTED]

KNOLLS ATOMIC POWER LABORATORY  
SCHENECTADY, NEW YORK

*Hanny*  
*U D*

Date: July 28, 1961

[REDACTED]

To: Metals & Controls Nuclear

Subject: FUEL

[REDACTED]

Instruction to Vendor No. 4A (NPD 00078-Y)

PREPARED BY EXPENSE #18

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

Amendment

FP
R&D
# 7910264
\$ 255
9065
8810

(SIGNATURES REQUIRED)

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
*HF Brown 8/2/61*  
\_\_\_\_\_  
\_\_\_\_\_

DISTRIBUTION:

- HF Brown
- GR Kingsbury
- FC Hanny ←
- CE Lacy
- LM Loeb
- HL Mars
- WW Ward
- RM Tentor (5)
- JK Gingrich JK6/bls.

*Robert Brown*

[REDACTED]

Cognizant Requester:

*L. Loeb*

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

[REDACTED]

Date: July 28, 1961

To: Metals & Controls Nuclear  
P.O. Box 898  
Attleboro, Mass.

Attention: Mr. R. Sager/Donelson/Sherman

Subject: FUEL [REDACTED]

Instruction to Order No. 4A

Reference: NPD 00078-Y

1. Delete Items 2 - 4B from NPD 00078-Y and replace with a new Item 2.
2. M&C is instructed to proceed with the fabrication [REDACTED]  
[REDACTED]
3. [REDACTED]
4. [REDACTED]
5. All instructions specified in NPD 00078-Y shall be referenced with the following additions:
  - a. All components will be machined to the attached sketches 1-7 dated 7/10/61.
  - b. [REDACTED] (NPD 00078-Y) to complete requirements of new Item 2 (reference sketches 4-6).
  - c. [REDACTED]
6. M&C will hold KAPL material from old Items 2 - 4B until notified.

Cognizant Requester: [Signature]

No. \_\_\_\_\_

REQUEST FOR SHIPMENT - SS MATERIALS  
(Use Separate Form for Each Material Category)

To: Manager - NCO-MA  
Building G-1, Mezz.  
Extension 468; 7380

1. Material category:  Normal U  Enriched U > 75% U-235  Enriched U < 75% U-235  
 Depleted U  Thorium  Plutonium  U-233  
 Deuterium  Tritium  
 2. Measurement method:  Direct weighing Toledo gram balance 5  
 (state type of balance used) (number of weighings)  
 Chemical analysis \_\_\_\_\_ (state method)  
 Isotopic analysis \_\_\_\_\_ (state method)  
 Other \_\_\_\_\_ (specify)

3. Shipping method Hand carried by L. Roth Date shipment desired 6/28/61

4.  AEC courier  KAPL messenger shipment requested?  no  yes

5. Will material be returned?  no  yes  
Name of AEC courier or KAPL messenger \_\_\_\_\_  
If yes,  same form  other \_\_\_\_\_ (specify)

6. Material classification:  secret  confidential  unclassified  
7. Accountable custodian George Kingsbury KAP-84 receipt No. 6703 (77C-14)

8. Material description \_\_\_\_\_

9. Unit of measure  Gram  Kilogram  
entity and weights: (Use attachment if additional space is needed)  
Identity No. \_\_\_\_\_  
(batch, lot, run, plate, etc.)  U-235  U-233

	Gross Wt.	Clad Wt.	Net Wt.	% U	Element Wt.	% Enr.	Isotope Wt.	Project
[Redacted]	8.580		1.095		.965		X	SNR-40702-00-7
Totals	8.580		1.095		.965			

Signed H. P. Bredt Building G-1 Mezz Room 287 Extension 7098

11. Receiving station Metals & Controls Nuclear Inc., Attleboro, Mass.  
 12. Contract or NPD reference 00078-7  
 13. Reason for shipment Final fabrication

(For Accountability Use Only)

The following contractual information\* is provided from contractual record files and is factual to the best knowledge and belief of the Manager - Materials Accountability:

J. J. Coomes/  
Manager - Materials Accountability Date 6/28/61  
101 reference SGE-MAC-159

Type of material Depleted Uranium  
 \* Quantity authorized to date \_\_\_\_\_ Unit: \_\_\_\_\_ Form \_\_\_\_\_  
 \* Quantity previously shipped \_\_\_\_\_ Unit: \_\_\_\_\_ Form \_\_\_\_\_  
 Quantity this shipment \_\_\_\_\_ (.965) Unit: Kgs Form \_\_\_\_\_  
 Total shipped \_\_\_\_\_ (.965) Unit: \_\_\_\_\_ Form \_\_\_\_\_

KAPL comments \_\_\_\_\_  
Approved: [Signature] 6/28/61  
SNROO - Materials Division

SNROO Comments \_\_\_\_\_

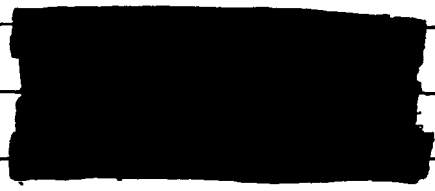
*J. Kissinger*

No. \_\_\_\_\_

REQUEST FOR SHIPMENT - SS MATERIALS  
(Use Separate Form for Each Material Category)

To: Manager - NCO-MA  
Building G-1, Mezz.  
Extension 468; 7380

1. Material category:  Normal U  Enriched U > 75% U-235  Enriched U < 75% U-235  
 Depleted U  Thorium  Plutonium  U-233  
 Deuterium  Tritium
2. Measurement method:  Direct weighing \_\_\_\_\_ (state type of balance used)  
 Chemical analysis \_\_\_\_\_ (state method)  
 Isotopic analysis \_\_\_\_\_ (state method)  
 Other Weights as received on AEC-101 FMC-SGE-19 (specify)



3. Shipping method Railway Express - Prot. Sign Date shipment desired 7/20/61
4.  AEC courier shipment requested?  no  yes  
 KAPL messenger
5. Will material be returned?  no  yes If yes,  same form  other Finished Product (specify)  
Name of AEC courier or KAPL messenger \_\_\_\_\_
6. Material classification:  secret  confidential - R/D  unclassified
7. Accountable custodian D-3 Vault KAP-84 receipt No. FMC-SGE 19
8. Material description \_\_\_\_\_

9. Unit of measure  Gram  Kilogram

entity and weights: (Use attachment if additional space is needed)  
Identity No. \_\_\_\_\_  U-235  U-233

(batch, lot, run, plate, etc.)

	Gross Wt.	Clad Wt.	Net Wt.	% U	Element Wt.	% Enr.	Isotope Wt.	Project
	1.708	.385	.220		.194			
	1.704	.385	.220		.194			
	1.699	.385	.229		.194			
	1.700	.492	.280		.246			
	1.439	.491	.280		.246			
Totals	6.250	2.138	1.229		1.074			

Signed E. F. Bradt / H. A. Grant Building G-1 Mezz Room 257 Extension 7098

11. Receiving station M & C Nuclear - Attleboro, Mass.
12. Contract or NPD reference 00078-Y
13. Reason for shipment Final Fabrication

(For Accountability Use Only)

The following contractual information\* is provided from contractual record files and is factual to the best knowledge and belief of the Manager - Materials Accountability:

J. J. Coomes / J. Kissinger 7/20/61  
Manager - Materials Accountability Date

- Type of material Normal Uranium 101 reference SGE-MAC 16/
- Quantity authorized to date \_\_\_\_\_ Unit: \_\_\_\_\_ Form \_\_\_\_\_  
Quantity previously shipped \_\_\_\_\_ Unit: Kgs Form \_\_\_\_\_  
Quantity this shipment \_\_\_\_\_ Unit: Kgs Form \_\_\_\_\_  
Total shipped \_\_\_\_\_ Unit: Kgs

KAPL comments J. C. Henry 7/25/61

Approved: Walter H. Martin 7/25/61  
SNROO - Materials Division

SNROO Comments \_\_\_\_\_

Ret'd MAC-SGE 717



**ANOLLS ATOMIC POWER LABORATORY**

SHIPPING NO. 0805

TRAFFIC CONTROL  
PROPERTY MANAGEMENT  
SHIPPING DEPARTMENT  
Request for Shipment

TRAFFIC ROUTING \_\_\_\_\_

DATE \_\_\_\_\_

DATE REQUESTED 7/20/63

1. Material to be shipped (use supplement if necessary)\*  
Security Classification of Material \_\_\_\_\_  
Qty. Unit Description, type, size, kind, etc.

No. of Pieces \_\_\_\_\_  
Accumulated or \_\_\_\_\_  
Test Numbers \_\_\_\_\_  
Indicate AEC or NAVY Owned

Qty.	Unit	Description, type, size, kind, etc.	No. of Pieces	Indicate AEC or NAVY Owned
11.2	Qty	[REDACTED]	7	NAVY

2. Value of material (for shipping only) \$50.00 S.O. 7000-00  
3. Consignee's Complete Address  
Ship to Metal & Controls Inc., 11 & C Building  
Street Address P. O. Box 808  
City Attleboro State Mass.  
Attention: S. Donaldson/P. Starnes  
Special Markings (i.e. vendors reference OGT, PAED No.) \_\_\_\_\_  
KAPL Nu, etc. \_\_\_\_\_

4. Date Material Due at Destination ASAP  
(If premium—Hi-Cost Type—transportation, letter of justification must be submitted with this request)

5. Purpose of Shipment Further fabrication

6. Is this KAPL Equipment, being loaned to consignee? Yes  No \_\_\_\_\_  
7. Is this Consignee's Equipment, loaned to KAPL, now being returned? Yes \_\_\_\_\_ No   
8. Will material be returned to KAPL? Yes  No \_\_\_\_\_  
A. If yes, show KAPL NPD or Subcontract No. \*\* 0070-2 Date of Return \_\_\_\_\_  
In what form will material be returned? Same \_\_\_\_\_ Other  (State under Remarks)  
B. If no, show reason or authority (original Order No.) \_\_\_\_\_

9. Remarks: Final fabricated product

10. If material is in stock or warehouse, check here   
11. If radioactive (Form 1006 Required) check here

12. Shipment to be made at expense of Laboratory  , Consignee \_\_\_\_\_  
Authorized Signature (OPG Gen.Lab Sv 43.03) Requestor SA Borders

Approval Name \_\_\_\_\_  
Bldg. \_\_\_\_\_ Phone \_\_\_\_\_  
Contractor Administrator \_\_\_\_\_

Section ECR/ECO  
Bldg. 3rd Floor Phone 7377/7106  
Send additional copies to: \_\_\_\_\_

\*Upon completion of above, requestor should attach "Return for Shipment Tag" (KAP 255) to the material and forward to Building M-1, Att: Foreman, Receiving & Shipping. The tag must show description and disposition of material.

\*\*If not on order, explain No. 9 - Remarks:

Do not Write Below This Line

Property Management \_\_\_\_\_ Date \_\_\_\_\_ Traffic \_\_\_\_\_ Date \_\_\_\_\_  
Accumulated \_\_\_\_\_ Date \_\_\_\_\_ Shipping \_\_\_\_\_ Date \_\_\_\_\_  
No. of Pieces \_\_\_\_\_ Total Weight \_\_\_\_\_

REPRODUCED AT GOVT EXPENSE # 18

General Electric Company  
KNOLLS ATOMIC POWER LABORATORY  
Schenectady, New York

DISPOSITION INSTRUCTIONS

Date: **July 17, 1962**

To: **Metals & Control, Nuclear, Inc.  
Attleboro, Massachusetts**

Attention: **Mr. W. E. Stevenson**

Subject: **Disposition of Excess Zircaloy Material - NPD 000784 (KAPL 212)**

Reference: **Your Inventory Report Form (KAP 1945) dated Jan. 10, 1961**

Gentlemen:

You are hereby instructed to dispose of the material listed in the above-reference as follows:

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

**71 pounds of Zircaloy strip-ingot M-36 and 111 pounds 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 writing  
of the exact amount disposed of and date thereof.

Identify all material shipped to KAPL by NPD 000784 ✓

Very truly yours,

cc: **WJ Gallagher**  
~~NE Bradt~~ ~~SG H~~  
~~JJ Coomes~~ ~~JS Roicki~~  
RJ Dilz File  
~~HS Bess~~  
~~XXXXX~~

Core Materials Procurement  
Materials Accountability  
NUCLEAR CORE OPERATION

INVENTORY REPORT OF CONTROLLED ATOMIC MATERIALS

(READ DETAILED INSTRUCTIONS ON REVERSE SIDE BEFORE FILLING IN THIS FORM)

1. REPORT NUMBER		2. DATE MAILED		3. FROM (NAME AND ADDRESS OF REPORTING AGENCY)		4. I RECOGNIZE THAT THIS REPORT COVERS MATERIALS SUBJECT TO CONTROL BY THE UNITED STATES GOVERNMENT AND I CERTIFY THE QUANTITIES AND USAGE OF MATERIAL AS STATED HEREIN ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.																
FINAL		1/16/61		MTC NUCLEAR INC		SIGNED <i>W. E. ...</i>																
5. SUBMITTED TO		6. ORDER OR SUB-CONTRACT NO.		7. PERIOD COVERED		TITLE																
KNOLLS ATOMIC POWER LABORATORY		(KAPL 212)		8/16/61		Capt. Paul ...																
ATTENTION: MANAGER		NPD 000784		12/31/61																		
MATERIALS ACCOUNTABILITY																						
BEGINNING BALANCE				ADDITIONS				SHIPMENTS				ENDING BALANCE										
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)	(R)	(S)	(T)	(U)	(V)	
INGOT NO.	MAT'L. FORM	WT.	RESIDUE TYPES	INGOT NO.	MAT'L. FORM	WT.	SOURCE	INGOT NO.	MAT'L. FORM	WT.	DESTINATION	INGOT NO.	MAT'L. FORM	WT.	DESTINATION	INGOT NO.	MAT'L. FORM	WT.	RESIDUE TYPES	INGOT NO.	MAT'L. FORM	WT.
M-36	ZIRC	456.3	I II III	M-36	ZIRC	132*	KAPL	M-36	ZIRC	6*	KAPL	M-36	ZIRC	33*		M-36	ZIRC	69*	I II III	M-36	ZIRC	69*
H2C 1097	ZIRC	59*		M-36	ZIRC	6*		M-36	ZIRC	8*		M-36	ZIRC	38*		M-36	ZIRC	23*		M-36	ZIRC	23*
M5 33040	ZIRC	69*		M5 33040	ZIRC	144																

To be returned  
For letter of  
7/10/62

AUDIT OF NPD 00078 - M-1  
ZIRC

MATL FURNISHED BY NADL

S/D C 8659 (KAPL EST WGT 605\*) 584.3 LBS <sup>VENDOR</sup> WGT.

VENDOR (CORB. 00040) TO VENDOR M-1 155.0 LBS.

1040.3 LBS

MATL REC'D AT NADL

[REDACTED]	MAC-SGE 717	9/2/61	6 LBS
[REDACTED]	MAC-SGE 715	7/26/61	8 LBS
[REDACTED]	MAC-SGE 727	12/1/61	132 LBS
			<u>146 LBS</u>

FAB LOSS 38. LBS

MATL TRANSFERRED

FROM 00078 M-1 TO 01247 M-1 4.0 LBS

\* MATL AT VENDORS PER 1345 REPORT 1/16/62

STRIP	71 #
TYPE II RESIDUE	111 #
" III "	256.3 #
	<u>438.3</u>

\* TO BE DISPOSED OF OR RETURNED  
AS PER LETTER OF 7/17/62

GRAND TOTAL 1040.3 LBS

L. E. Duran 7/14/62

INVENTORY REPORT OF CONTROLLED NUCLEAR MATERIALS

(READ DETAILED INSTRUCTIONS ON REVERSE SIDE BEFORE FILLING IN THIS FORM)

1. REPORT NUMBER		2. DATE MAILED		3. FROM (NAME AND ADDRESS OF REPORTING AGENCY)		4. I RECOGNIZE THAT THIS REPORT COVERS MATERIALS SUBJECT TO CONTROL BY THE UNITED STATES GOVERNMENT AND I CERTIFY THE QUANTITIES AND USAGE OF MATERIAL AS STATED HEREIN ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.										
FINAL		1/10/61		MTC NUCLEAR INC		SIGNED: W. E. Stevenson TITLE: Capt. Prod. Control Section										
5. SUBMITTED TO		6. ORDER OR SUB-CONTRACT NO.		7. PERIOD COVERED		8. SHIPMENTS										
KNOLLS ATOMIC POWER LABORATORY ATTENTION: MANAGER MATERIALS ACCOUNTABILITY		NPD000784 (KAPL 212)		8/16/61 12/31/61		SHIPMENTS										
BEGINNING BALANCE		ADDITIONS		SHIPMENTS		ENDING BALANCE										
(A) INGOT NO.	(B) MAT'L. FORM	(C) WT.	(D) RESIDUE TYPES	(E) MAT'L. FORM	(F) WT.	(G) DESTINATION	(H) MAT'L. FORM	(I) WT.	(J) RESIDUE TYPES	(K) MAT'L. FORM	(L) WT.	(M) DESTINATION	(N) MAT'L. FORM	(O) WT.	(P) RESIDUE TYPES	
M-36	ZIRC	456.3	STRIP			KAPL	M-36	ZIRC	132*			KAPL	M-36	ZIRC	STRIP	111 213.3*
M2C 1097	ZIRC	59*	STRIP				M-36	ZIRC	6*			KAPL	M-36	ZIRC	STRIP	20*
M5 33040	ZIRC	69*	STRIP				M5 33040	ZIRC	8*			KAPL	M-36	ZIRC	STRIP	23*
		68.4*							146							



RECEIVING REPORT

KNOLLS ATOMIC POWER LABORATORY

TRAFFIC AND MATERIAL CONTROL

P.O. BOX 1072

SCHENECTADY, NEW YORK

REPRODUCED AT GOVT EXPENSE # 18

ORDER NO	M. R. NO	COMM NO	DATE ORDERED	VENDOR CODE
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SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

PURCHASE ORDER NO.

NPD

TO

SHIP TO KNOLLS ATOMIC POWER LABORATORY  
WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO FINANCE-ACCOUNTS PAYABLE.

ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL

SHIP VIA	F. O. B.	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR	BLDG. BUYER

This order placed pursuant to Gov't 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

ITEM	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	DISCOUNT	NET TOTAL
			CONFIRMING ORDER IF CHECKED <input type="checkbox"/>			

RECEIVING REPORT

DELIVER MAT'L TO *Handed D-3 Vault*

ITEM	SHIPPED	REC'D	UNIT	RECEIPTS
	5	5	Co. Fuel	[Redacted]

*Created from letters on inspection card*

MAC-SAC 715

APPROVED-AUTH. WHSE. REP. *[Signature]*

THIS SHIPMENT APPLIES ON *00078*

MAT'L SHIPPED BY *Nuclear mat*

CARRIER ROUTING

PIECES *DC* B/L OR PRO. NO.

CHARGES WEIGHT PREPAID COLLECT

DATE REC'D *24* CLAIM NO. DATE TALLIED *7-24-61*

TALLYMAN *[Signature]* PAGE PART REC. REPORT NO. *NO 128025*

NOTE: REPORT ANY DAMAGES OR

✓

✓

✓

NPD 01247 /



Request for Quotation

RQ 51377

OPG (PROCUREMENT & STOCKING) 60.00

Insert MR Number which will be used when material is ordered.

Best QUOTES required

APTRK

PRINT CONTRACT NUMBER  
WV-2

TO PURCHASING:  
Please obtain QUOTATIONS ONLY on Materials and/or services listed below

PURCHASING USE ONLY - DO NOT WRITE IN THIS BLOCK

SUGGESTED SOURCES  
UNC - New Haven, Conn.

M&C - Attleboro, Mass.

Westinghouse, Chester, Pa.

SHOW FORMER NPD NUMBER IF AVAILABLE

WEEK 4000  
REQUESTED DELIVERY DATE

ITEM	QTY.	UNIT	DESCRIPTION: REQUEST ONLY ONE TYPE COMMODITY PER R.Q. - Please print or type	PURCHASING USE ONLY		
				UNIT	DISC.	NET PRICE
1	5	ea.	[REDACTED]			
2	5	ea.	Same as Item 1.			
THE FOLLOWING INSTRUCTIONS SHALL APPLY:						
1. 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 performance 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 KAPL General Terms and Conditions No. AEO-958.						

We have checked Material Control, AEC and DOD excess personal property lists and find the above material not available from those sources.

The execution of this request will not involve access to classified information. (Process classified orders as required by security OPOS.)

Spec. Contr. \_\_\_\_\_ Rescher & NCO  
Electrical \_\_\_\_\_ SPO \_\_\_\_\_ Mechanical \_\_\_\_\_

FE Spinelli E1 717 7/21/61  
REQUESTER BLDG. PHONE DATE SUBMITTED

C/A OR BUYER DATE

OK SMB 7-26-61 APPROVED [Signature] 7/25/61


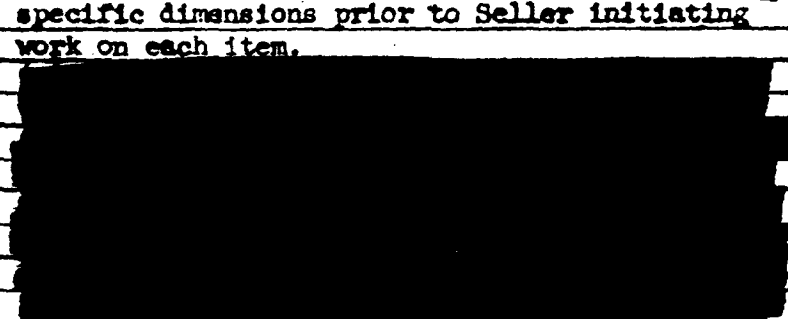


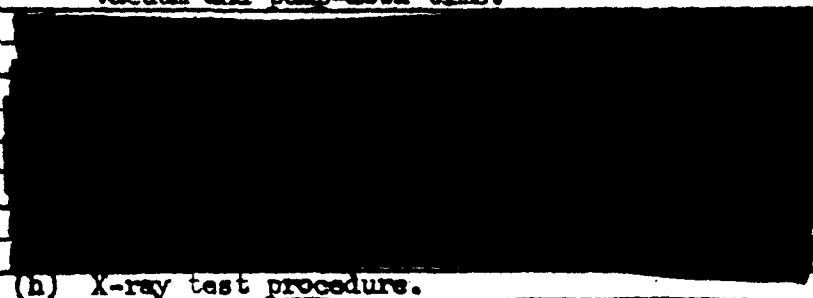


REMARKS: This form when completed and submitted to Purchasing will initiate action for QUOTATIONS ONLY on materials and/or services described herein. This form is designed for use with Material Request form KAP 61 A PART II. Please type or use heavy pressure to insure legibility on all copies of both parts.

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

REPRODUCED AT GOV'T EXPENSE

RQ

(ADDITIONAL PAGES)  
Page 2

ITEM	QTY.	UNIT	DESCRIPTION: REQUEST ONLY ONE TYPE COMMODITY PER R. Q. - Please print or type	PURCHASING USE ONLY		
				UNIT	QTY.	NET PRICE
			2. Under the provisions of Article IX entitled "Government Furnished Property" and Instruction 1 hereof, General Electric will furnish to Seller the following items of Government property for use in connection with and under the terms of this order: 			
			3.  specific dimensions prior to Seller initiating work on each item. 			
			4. Seller shall submit a detailed process outline for KAPL review and approval prior to starting work. The process outline shall include the following information: (a)  (b) Specific cleaning procedure for all pack components. (c) Complete assembly procedure. (d) Evacuation of pack assemblies including vacuum and pump-down time.  (h) X-ray test procedure. 			
			5. KAPL technical representative shall be present during all operations. Seller shall advise KAPL 72 hours prior to performing all operations. 			

REPRODUCED AT GOVT EXPENSE # 18



*Durr*

*W*

RECEIVED  
MAR 23 1962  
J. J. COOMES

KAPL 1094 GA PLS

TOM - FILE NPD 1247  
COMPLETED

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

FILE  
H. DORR'S  
SAFE  
*For*

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.

M AND C NUCLEAR PRODUCTS F L CUTRONE CONTRACT ADMINISTRATOR

END PLS ACK EX GERRY

SEND

General Electric Company  
KNOLLS ATOMIC POWER LABORATORY  
Schenectady, New York

DISPOSITION INSTRUCTIONS

Date:

To: METALS & CONTROL INC.  
P.O. Box 898  
ATTLEBORO MASS

Attention: MR F. L. CUTRONE

Subject: SURPLUS MATERIAL FROM NPD 01247

Reference: MR LEYERBY'S MATERIAL REPORT (KAP 1345) DATED 1/12/62

Gentlemen:

You are hereby instructed to dispose of the material listed in the above-reference as follows:

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

149.6 POUNDS ZR. [REDACTED] 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 01247.

Very truly yours,

*R E Duran*  
Core Materials Procurement  
Materials Accountability  
NUCLEAR CORE OPERATION

cc: NF Bradt ~~FC~~  
JJ Coomes JS Roicki  
RJ Dilz File  
~~HC~~

**PURCHASE ORDER**

*To DEC*

**KNOLLS ATOMIC POWER LABORATORY**

PURCHASING

P.O. BOX 1072

SCHENECTADY, NEW YORK

OPERATED BY THE GENERAL ELECTRIC COMPANY UNDER GOVERNMENT CONTRACT W-31-109-ENG.-52

REPRODUCED AT GOVT EXPENSE # 18

SHOP ORDER NO. <b>7910166</b>	M.R. NO. <b>51377</b>	DATE ORDERED <b>9/12/61</b>	VENDOR CODE <b>3611</b>
----------------------------------	--------------------------	--------------------------------	----------------------------

SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

PURCHASE ORDER NO. <b>NPD 01247-D</b>
--

**M & C Nuclear Incorporated**  
**Attleboro, Massachusetts**

**Attn: Mr. E. Sager**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**

WAREHOUSE BLDG. M-2

SCHENECTADY, NEW YORK

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOICES IN DUPLICATE TO:

**FINANCE - ACCOUNTS PAYABLE**

ON PREPAID SHIPMENTS F.O.B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL

SHIP VIA <b>Guy's Express</b>	F.O.B. <b>Attleboro, Mass.</b>	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE <b>See Instruction 7</b>	ORDERED FOR <b>F. E. Spinelli</b>	BLDG. <b>E-1</b> BUYER <b>R. C. Hisee/jer</b>

THIS ORDER SUBJECT TO GENERAL TERMS AND CONDITIONS OF ATTACHED PURCHASE SUPPLEMENT NO. **AEC-958** FUNDING: **W-31**

ITEM	QUANTITY	UNIT	DELIVER TO: <b>F. E. Spinelli</b> (BUILDING) <b>E-1</b> (ROOM)	UNIT PRICE	DISCOUNT	NET TOTAL
1	5	ea.	In accordance with Supplement A to NPD 01247-D dated 9/12/61.	\$600/ea.		\$3,000.00
2	5	ea.	Same as Item 1	600/ea.		3,000.00
3	2	ccs.	'I, _____ certify that the material and/or services called for on KAPL Purchase Order NPD 01247-D have been furnished in strict accordance with the requirements of the aforesaid order.' Signed: _____ Title: _____ Date: _____			
Total Amount of Purchase Order						\$6,000.00
THE FOLLOWING INSTRUCTIONS SHALL APPLY						
Instruction 1 thru 10 inclusive in accordance with Supplement A to NPD 01247-D dated 9/12/61.						

THIS ORDER CONSISTS OF \_\_\_\_\_ PAGES.



PURCHASE ORDER

KNOLLS ATOMIC POWER LABORATORY

To AEC

PURCHASING

P.O. BOX 1072

SCHENECTADY, NEW YORK

OPERATED BY THE GENERAL ELECTRIC COMPANY UNDER GOVERNMENT CONTRACT W-31-109-ENG.-52

REPRODUCED AT GOVT EXPENSE # 18

SHOP ORDER NO. <b>7510266</b>	M.R. NO. <b>IV 1A</b>	DATE ORDERED <b>11/13/61</b>	VENDOR CODE <b>3611</b>
----------------------------------	--------------------------	---------------------------------	----------------------------

SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

PURCHASE ORDER NO.  
**NPD 01247-D**  
**Amendment #1**

TO  
**H & C Nuclear, Inc.**  
**Attleboro, Mass.**  
  
**Attn: Mr. E. Sagar**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**  
WAREHOUSE BLDG. M-2  
SCHENECTADY, NEW YORK  
BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS) RENDER INVOICES IN DUPLICATE TO:  
**FINANCE - ACCOUNTS PAYABLE**  
ON PREPAID SHIPMENTS F.O.B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL

SHIP VIA <b>Day's Express</b>	F.O.B. <b>Attleboro, Mass.</b>	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR <b>F. E. Spinelli</b>	BLDG. BUYER <b>E-1 R. C. [Signature]</b>

THIS ORDER SUBJECT TO GENERAL TERMS AND CONDITIONS OF ATTACHED PURCHASE SUPPLEMENT NO. **ACC-935**

FUNDING: **W-31**

ITEM	QUANTITY	UNIT	DELIVER TO: <b>F. E. Spinelli</b> (BUILDING) <b>E-1</b> (ROOM)	UNIT PRICE	DISCOUNT	NET TOTAL
<b>1</b>	<b>12</b>		<p>Purchase Order NPD 01247-D issued under date of 9/12/61 is hereby amended for the purpose of combining items 1 and 2 and increasing the quantity by 2; increasing the purchase order price by \$900 in consideration thereof (2) nullifying instruction 2</p> <p>Delete items 1 and 2 in their entirety and substitute in lieu thereof the following:</p> <p>In accordance with Supplement A to NPD 01247-D dated 11/13/61.</p> <p>Change item "3" to item "2"</p> <p><del>TOTAL REVISED AMOUNT OF PURCHASE ORDER</del></p> <p>Instructions 1 thru 10 inclusive in accordance with Supplement A to NPD 01247-D dated 11/13/61.</p> <p>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.</p>	<b>\$575/ea.</b>		<b>\$6,900.00</b>
						<b>\$6,900.00</b>

THIS ORDER CONSISTS OF \_\_\_\_\_ PAGES.



PURCHASE ORDER  
KNOLLS ATOMIC POWER LABORATORY

2 OF 2 PAGES. VENDOR M & C Nuclear, Inc. PURCHASE ORDER NO. 01247-D

Certified for national 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 EISA in obtaining controlled materials and other products and materials needed to fill this order.

PURCHASE ORDER PRICE SUMMARY

Original Amount of Order	\$6000
Change by this Amendment No. 1	900
<b>TOTAL REVISED AMOUNT OF PURCHASE ORDER</b>	<b>\$6,900.00</b>



PURCHASE ORDER

TO AEC  
12/28

KNOLLS ATOMIC POWER LABORATORY

HASING

P.O. BOX 1072

SCHENECTADY, NEW YORK

OPERATED BY THE GENERAL ELECTRIC COMPANY UNDER GOVERNMENT CONTRACT W-31-109-ENG.-52

SHOP ORDER NO. <b>7910166</b>	M.R. NO. <b>IV/2</b>	DATE ORDERED <b>12/18/61</b>	VENDOR CODE <b>3611</b>
----------------------------------	-------------------------	---------------------------------	----------------------------

SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

PURCHASE ORDER NO.

NPD **01247-D**  
Amendment #2

TO

**N & C Nuclear, Inc.**  
**Attleboro, Mass.**

Attn: **Mr. E. Sagar**

SHIP TO: **KNOLLS ATOMIC POWER LABORATORY**

WAREHOUSE BLDG. M-2

SCHENECTADY, NEW YORK

BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS:) RENDER INVOICES IN DUPLICATE TO:

FINANCE - ACCOUNTS PAYABLE

ON PREPAID SHIPMENTS F.O.B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL

SHIP VIA <b>Gay's Express</b>	F.O.B. <b>Attleboro, Mass.</b>	TERMS	DO-E2 Certified under DMS Reg. 1
REQUESTED ON SITE	DELIVERY DATE	ORDERED FOR <b>F. E. Spinelli</b>	BLDG. <b>E-1</b> BUYER <b>R. C. Bisbee/jar</b>

HIS ORDER SUBJECT TO GENERAL TERMS AND CONDITIONS OF ATTACHED PURCHASE SUPPLEMENT NO. **AEC-958** FUNDING: **W-31**

ITEM	QUANTITY	UNIT	DELIVER TO:	UNIT PRICE	DISCOUNT	NET TOTAL
			(BUILDING) (ROOM)			
			<p>Purchase Order NPD 01247-D issued under date of 9/12/61 as amended to date is hereby further amended for the purpose of adding instructions 1 at no change in price.</p> <p>Add Instruction 11 as follows:</p> <p>11. Seller shall ship the remaining Zircaloy- furnished by KAPL by transfer from KAPL Purchase Order 00078-Y to the following:</p> <p>Atomic Fuel Department Westinghouse Electric Corp. P. O. Box 217 Cheswick, Pa. Attn: R. J. McCracken No. Job 1J1200</p> <p>Mark package for use on KAPL Purchase Order NPD 01722. Seller shall mail copies of shipping documents at time of shipment to the Manager of MCO, Materials Control, KAPL.</p>			

THIS ORDER CONSISTS OF 2 PAGES.

GENERAL  ELECTRIC

REPRODUCED AT GOVT EXPENSE # 18

PURCHASE ORDER  
GENERAL ATOMIC POWER LABORATORY

2 OF 2 PAGES. VENDOR M & C Nuclear, Inc. PURCHASE ORDER NO. 01247-D  
Amendment #2

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

PURCHASE ORDER PRICE SUMMARY

Original Amount of Order	\$6,000.00
Change by previous Amendments	900.00
Change by this Amendment #2	-0-
<b>TOTAL REVISED AMOUNT OF PURCHASE ORDER-----</b>	<b>\$6,900.00</b>

REPRODUCED AT GOVT EXPENSE # 18

AUDIT OF NPD 01247 - M4C NUCLEAR  
UR.

MAT'L RECD BY M4C ON FMC-MAC-2 .240 KG

MAT'L RECD BY KAPL

MAC SGE 728 12/11/61 .240 KG.

RE Duran 4/30/61

SCH 59-270 No. 1

GENNOLLS ATOMIC POWER LABORATORY  
SCHENECTADY, NEW YORK

*VED*

Date: June 8, 1959

To: M & C Nuclear, Inc.

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

None

(SIGNATURES REQUIRED)

Financial Representative  
Approved: 7th Level Manager  
6th Level Manager  
5th Level Manager  
4th Level Manager  
General Manager

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DISTRIBUTION:

- JW Boller (Lt. Cmdr.)
- CF Derse
- AN Doonan
- WC Gibelius
- JV Goldthwaite
- GA Hanlon
- FC Hanny
- JF Kagay *JK*
- GR Kingsbury
- CE Lacy
- HA Loucks *HL*
- HR Pagano (2) *WET*
- WJ Prime
- S Sturges *JDL*
- RC Traxler *CT*
- WW Ward(2)
- L Cherubin *RC/EB*

RECEIVED

JUN 12 1959

F. C. HANNY

Cognizant Requester: *FC Hanny*

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

Date: June 8, 1959

To: M & C Nuclear, 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. However, 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 commercial cleaners have strong exhaust blast which can spread air contamination throughout a plant.

Cognizant Requester P. A. Trahey  
at B.

KNOLLS ATOMIC POWER LABORATORY  
SCHENECTADY, NEW YORK.

VED

Date: June 17, 1959

To: M & C Nuclear, Inc.

Subject: **FUEL ELEMENT SURFACE STANDARDS**  
**INFORMATION** to Vendor 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 Representative

Approved: 7th Level Manager  
6th Level Manager  
5th Level Manager  
4th Level Manager  
General Manager


DISTRIBUTION:

- JW Boller (Lt. Cmr.)
- AJ Brown
- CF Derse
- WC Gibelius
- JV Goldthwaite
- GA Hanlon
- FC Hanny
- JF Kagay JFK/2/24
- GR Kingsbury RK
- CE Lacy
- HA Loucks
- HR Pagano (2) MET 6/19/59
- WJ Prime
- S Sturges JDL
- RC Traxler Ret
- WW Ward (2)
- AN Doonan
- CE Smith

RECEIVED

JUN 22 1959

F. C. HANNY

Cognizant Requester

*P.O. Traxler / W.C. ...*

KNOLLS ATOMIC POWER LABORATORY  
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-KPMO-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 authorizes any increase in cost or change of delivery of the equipment being purchased under this contract.

Cognizant Requester: R. L. Foster / W. E. Johnson



KNOLLS ATOMIC POWER LABORATORY  
SCHENECTADY, NEW YORK

*HSD/LED*

REPRODUCED AT GOVT EXPENSE #18

Date: **June 26, 1959**

To: **M & C Nuclear, Inc.**

Subject: **Uranium Certification for M & C N Melting - Ingot Evaluation run - Information to Vendor 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

<u>Information</u>
<u>Fixed Price</u>
<u>None</u>

(SIGNATURES REQUIRED)

Financial Representative  
Approved: 7th Level Manager  
6th Level Manager  
5th Level Manager  
4th Level Manager  
General Manager


DISTRIBUTION:

- JW Boller (Lt. Cmdr.)
- CF Derse
- AN Doonan
- WC Gibelius *Weg*
- JF Goldthwaite
- GA Hanlon
- FC Hanny
- JF Kagay *JFK*
- GR Kingsbury
- CE Lacy
- HA Loucks *HA*
- HR Pagano (2) *MET 6/26*
- WJ Prime
- S Sturges *JDL*
- RC Traxler
- WW Ward (2) *WW*
- CE Smith (2) *CS*

Cognizant Requester: *R.C. Traxler / J. Brown*

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

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 - INGOT 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 -

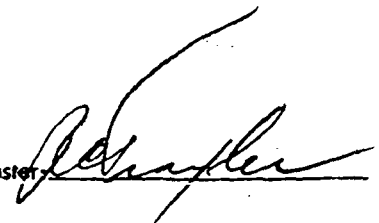
- 1) Obtaining Uranium isotopic analysis and ascertaining that all material furnished meets the specification requirements.
- 2) Calculating the [REDACTED] and ascertaining that all material furnished meets the specification requirements.

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. Moffat) 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.

Cognizant Requester



OLLS ATOMIC POWER LABORATORY  
SCHENECTADY, NEW YORK

*att: HSD/Fink/LED*

Date: July 10, 1959

To: M&C Nuclear, Inc.

Subject: Status of Government Furnished Material  
Information to Vendc: 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

Information
Fixed Price
None

(SIGNATURES REQUIRED)

Financial Representative

Approved: 7th Level Manager  
6th Level Manager  
5th Level Manager  
4th Level Manager  
General Manager


DISTRIBUTION.

- J.W. Boller (Lt. Cmdr.)
- C.F. Dorse
- A.E. Doonan
- W.C. Gibelius *Reg.*
- J.V. Goldthwaite
- G.A. Hanlon
- F.C. Hanny *C-1 128*
- J.F. Kagay
- G.R. Kingsbury
- C.E. Lacy
- H.A. Loucks
- H.R. Pagano (2) *MKR 7/16*
- W.J. Prime
- S. Sturges *JPL*
- R.C. Traxler *RF*
- W.W. Ward (2)
- C.E. Smith
- A.J. Brown *(19)*

RECEIVED

JUL 11 1959

F. C. HANNY.

Cognizant Requester

*R.C. Traxler / H.C. Hanny*

REPRODUCED AT GOVT EXPENSE

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

Date: July 10, 1959

To: M&C Nuclear, 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. SCH-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 Nuclear\*.

560 lbs. of Hafnium in crystal bar form  
Status - 561 lbs. received at M&C Nuclear\*.

b. [REDACTED]  
Status - Available on request.

c. [REDACTED] Dwg. M5-1B1-2188J  
Status - [REDACTED]

d. [REDACTED] - Dwg. PL-7A6839 Gr 2  
Status - available on request.

e. [REDACTED] - Dwg. PL-648C298 Gr 1  
Status - [REDACTED]

Cognizant Requester: *R. C. Thayer*

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

Date: July 10, 1959  
To: M&C Nuclear, Inc.

Attention: Mr. R. M. Dunlop

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

Reference:

PAGE #2

- f. [REDACTED] Clamps - Dwg. 578D943, Gr. 1  
Status 6 at M&C Nuclear\*  
16 available on request
- g. 1 Wrench Dwg. USMC XR1T-X11  
Status - at M&C Nuclear\*
- h. 1 Handling Tool Dwg. USMC XR1T-X66D  
Status - at M&C Nuclear\*
- i. [REDACTED] Clamps Dwg. 648C561 Gr. 1  
Status - 6 at M&C Nuclear\*  
6 available on request
- j. 3 $\frac{1}{4}$  Shipping Containers Dwg. NS-9SK218  
Status - 33 available on request  
1 contains Cell 83GL-21
- k. [REDACTED] Dwg. PL-139F970P18  
Status - at M&C Nuclear\*\*
- l. [REDACTED] Dwg. PL-139F970P20  
Status - at M&C Nuclear\*\*
- m. Government Tooling and Equipment delineated in list dated May 7, 1959  
Status - at M&C Nuclear\*
- n. 2 Ring Gages for Unit Cell Acceptance Test Dwg. 8TL3817 and 8TL3818  
Status - at M&C Nuclear\*

Cognizant Requester

*RC Thayer*  
*HL Louch*

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

Date: July 10, 1959  
To: M&C Nuclear, Inc.

Attention: Mr. R. M. Dunlop

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

Reference:

PAGE #3

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

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

Status - at M&C Nuclear\*

Cognizant Requester

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

Date: July 10, 1959  
To: M&C 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 SCH-59-270 IV-9 (Alpha Count Standards).

Standard Identification

a-1-388-8 Size 4" x 4"  
Status - at M&C Nuclear\*

b,1-4480 KMS-22 Size 4½" x 4½"  
Status - at M&C 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 M&C Nuclear\*

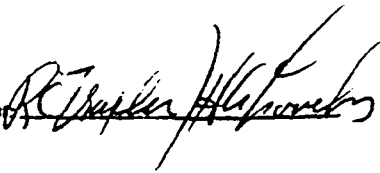
It is requested that M&C Nuclear, Inc. refer to the above items marked with an asterisk (\*) (Items 1a, 1b, 1f, qty. 6, 1g, 1h, 1i, qty. 6, 1k, 1l, 1m, 1n, 2a, 3a, 3b, and 4a) and advise KAPL if they agree that material indicated is available at M&C Nuclear for use on subject contract.

It is also requested that M&C 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 authorizes any increase in cost or change of delivery of the equipment being purchased under this Contract.

Cognizant Requester



KNOLLS ATOMIC POWER LABORATORY  
SCHENECTADY, NEW YORK

~~WIP~~ / CED

Date: July 17, 1959

To: M & C Nuclear, Inc.

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

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:

- JW Boller (Lt. Cmdr.)
- CF Derse
- AE Doonan
- WC Gibelius *WPS*
- JV Goldthwaite
- GA Hanlon
- FC Hanny
- JF Kagay *JFK*
- GR Kingsbury
- CE Lacy
- EA Loucks *EL*
- ER Pagano (2) *MET*
- WJ Prime
- S Sturges *JDL*
- RC Traxler *RT*
- WW Ward (2)
- M Keats
- SM Bishop *RMB*

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AUG 12 1959

F. C. HANNY

Cognizant Requester: *R.C. Traxler* *W.C. Gibelius*



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

REPRODUCED AT GOV'T EXPENSE # 18

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: (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:

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

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

(continued on page 2)

Cognizant Requester: R.C. Traylor / W.C. Ffelin

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.

Cognizant Requester: R.C. Taylor / R.C. J. J. J. J.

ROLLS ATOMIC POWER LABORATORY  
SCHENECTADY, NEW YORK

*VED*

Date: August 4, 1959

To: M & C Nuclear, Inc.

Subject: APPROVAL TO MELT ZIRCALOY MATERIAL FOR SCH 59-270  
INFORMATION to Vendor 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

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\_\_\_\_\_  
\_\_\_\_\_

DISTRIBUTION:

- EM Bishop *EB*
- JW Boller (Lt. Cmdr.)
- CF Derse
- AN Doonan
- WC Gibelius
- JV Goldthwaite
- GA Hanlon
- FC Hanny
- JF Kagay *JFK*
- GR Kingsbury *GRK 8/7/59*
- CE Lacy
- HA Loucks
- HR Pagnano (2) *HRP 8/7*
- WJ Prime
- S Sturges *SS*
- RC Traxler *RT*
- WW Ward (2)

*apb.*

RECEIVED

AUG 18 1959

F. C. HANNY

Cognizant Requester: *RC Traxler / W. C. Gibelius*

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

Date: August 4, 1959

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

Attention: Mr. R. M. Dunlop

Subject: APPROVAL TO MELT 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 #54 submitted for approval the changes that will be incorporated in Mallory-Sharon Zirconium Fabrication Qualification Report as a result of IV #3 (reference a).

The changes as outlined 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 bar 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 Requester: R.C. Trumble / R.E. Gid

GNOLLS ATOMIC POWER LABORATORY  
SCHENECTADY, NEW YORK

*VED*

Date: August 20, 1959

To: M & C Nuclear, Inc.

Subject: APPROVAL OF ALPHA ACTIVITY CONTROLS & COUNTING PROCEDURES  
INFORMATION to Vendor No. BCH 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, Prosonly Committed

Information
Fixed Price
None

(SIGNATURES REQUIRED)

Financial Representative  
Approved: 7th Level Manager  
6th Level Manager  
5th Level Manager  
4th Level Manager  
General Manager

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DISTRIBUTION:

- JW Doller (Lt. Cmdr)
- CF Derse
- AN Doonan
- WC Gibelius
- JV Goldthwaite
- GA Hanlon
- FC Hanny
- JF Kagay *JFK*
- GR Kingsbury
- CE Lacy
- HA Loucks
- BR Pagano (2) *WKR*
- WJ Prime
- S Sturges *S*
- RC Traxler *RC*
- WW Ward (2)
- SM Bishop
- AJBrown
- PL Eisenacher

*g3.*

RECEIVED

AUG 31 1959

F. C. HANNY

Cognizant Requester: *R.C. Traxler / W.C. Gibelius*

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

Date: August 20, 1959

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

M & CN Request Form #71 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 line "Given, 1 ppm = 0.00643 dpm/cm<sup>2</sup>" is not consistent with 8 ppm = 0.051 dpm/cm<sup>2</sup> 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.E

- 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. Traylor / A.L. Giblin

Date: August 20, 1959

To: M & C Nuclear, 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  $0.070 \text{ dpm/cm}^2$ . This is most advisable. It is not stated what the disposition of the components will be that have an activity level less than  $0.070 \text{ dpm/cm}^2$ . 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 [REDACTED] 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 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: R. P. Traylor / W. P. Fubelin

ATOMIC POWER LABORATORY  
SCHENECTADY, NEW YORK

*WD*

Date: September 28, 1959

To: M & C Nuclear, Inc.

Subject: SUPPLY CONTRACT 59-270 - APPROVAL OF NPS 109P414-4  
INFORMATION to Vendor No. SCE 59-270 - IV 42

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

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DISTRIBUTION

- JW Boller (Lt. Cmdr.)
- CF Derse
- AN Doonan
- WC Gibelius
- JV Goldthwaite
- GA Hanlon
- FC Hanny
- JF Kagay *JFK*
- GR Kingsbury
- CE Lacy
- HA Loucks
- HR Pagano (2) *SMET*
- WJ Prime
- S Sturges *JDL*
- RC Traxler *Ret*
- WW Ward (2)

RECEIVED

F. C. HANNY

Cognizant Requester:

*R. C. Traxler / [Signature]*



KAP 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 Vendor No. SCH 59-270 - IV 42

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

M & CN 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: 

ATOMIC POWER LABORATORY  
SCHENECTADY, NEW YORK

Date: October 22, 1959

To: M & C Nuclear, Inc.

Subject: SUPPLY CONTRACT SCH 59-270 - APPROVAL OF M & CN MANUFACTURING PROCESS SHEETS  
INFORMATION to Vendor No. SCH 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  
  
None

(SIGNATURES REQUIRED)

Financial Representative  
Approved: 7th Level Manager  
6th Level Manager  
5th Level Manager  
4th Level Manager  
General Manager

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DISTRIBUTION:

- A Boiko
- CF Derse
- AN Doonan
- JV Goldthwaite
- GA Hanlon
- FC Hanny
- JF Kagay *JK*
- GR Kingsbury
- CE Lacy
- HA Loucks
- HR Pagano (2) *WET*
- WJ Prime
- S Sturges *JDL*
- RC Traxler *TR*
- WW Ward (2)
- AD Whitehead (Lt. Cmdr.)

RECEIVED

OCT 21 1959

F. C. HANNY

Cognizant Requestor: *RC Traxler*

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

REPRODUCED AT GOVT EXPENSE # 18

Date: October 22, 1959

To: M & C Nuclear, 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:

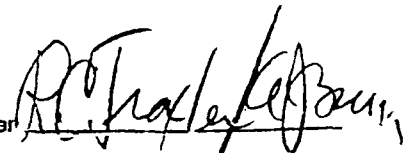
844B495	P-1	844B782	P-1
844B711	P-1	844B782	P-2
844B781	P-1	953B101	P-1

Manufacturing Process Sheet UC-3 is not approved until suitable limits are described on [REDACTED] No 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 change of delivery of the equipment being purchased under this contract.

Cognizant Requester



Sch 59-270 No. 2

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 *AB*
- E.W. Bunke
- C.F. Derse
- A.N. Doonan (3) *R.D.*
- J. Ericson
- W.C. Gibelius
- J.F. Goldthwaite
- W.H. Griffith
- G.A. Hanlon
- F.C. Hanry
- J.F. Kagay (3) *JK*
- G.R. Kingsbury
- C.E. Lacy
- H.A. Loucks
- H.R. Pagano (2)
- W.J. Prime
- C.E. Smith
- D.C. Stewart
- J.A. Steele
- S. Sturges
- R.C. Traxler
- G.W. VonStetina
- W.W. Ward (3)

June 2, 1959

REC'D

REPRODUCED AT GOVT EXPENSE # 18

To: DISTRIBUTION

Subject: TRANSMITTAL 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 S3G 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 Nuclear, Inc.
- 2) At the time a drawing is revised and issued, the Engineering Data Approval Processing Group will automatically mail one reproducible drawing to M & C Nuclear, Inc.
- 3) Each shipment of reproducible drawings must 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 Nuclear, Inc. (Attn. R.M. Dunlop) (3) w/sepia encl.

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

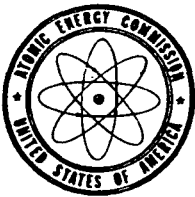
RECEIVED

1959

*W. C. Gibelius*  
NUCLEAR CORE PRODUCTION ENGINEERING  
E-1 Mezz. - Ext. 322/7160

WCGibelius/s

F. C. HANNY



UNITED STATES  
ATOMIC ENERGY COMMISSION  
SCHENECTADY, NEW YORK

LED  
~~FUK/HSD~~

ADDRESS REPLY TO:  
THE MANAGER  
U. S. ATOMIC ENERGY COMMISSION  
P. O. BOX 1688  
SCHENECTADY, NEW YORK  
AND REFER TO: **MD:RMS**

REPRODUCED AT GOVT EXPENSE # 18

July 6, 1959

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

**Attention: Mr. K. C. Duffy**

**Gentlemen:**

Reference is made to my letter of May 12, 1959 which allocated [redacted] of reactor grade zirconium sponge for work to be performed under Supply Contract No. SC-59-270.

In accordance with the provisions set forth in Amendment No. 1, dated June 11, 1959, to the subject contract, [redacted] of reactor grade zirconium sponge is hereby deducted from the allocation specified in Clause 38(a) of the General Provisions of the contract. The revised allocation is now [redacted] of sponge and the details regarding delivery should be worked out directly between M&S and Mallory Sharon.

Amendment No. 1 also provides for a reduction in the quantity of U-235 in the amount of 3.3 kilograms, and the original contract figure [redacted] copy of this letter the Knolls Atomic Power Laboratory is requested to arrange with you for the return of the furnished U-235 which is in excess [redacted] authorized by the contract.

H.S. DORR  
TO ARRANGE  
FOR RETURN  
OF EXCESS  
U-235.  
LED  
7/13

Very truly yours,

[Redacted signature block]

**D. W. Short, Acting Director**  
**Materials Division**

CC: **R. Dunlop, M&S**  
**F. C. Henry, KAPL**



MD: DMS

June 30, 1959

M & C Nuclear, Inc.  
Post Office Box 598  
Attleboro, Massachusetts

Attention: Mr. E. C. Duffy

Gentlemen:

In accordance with the requirements set forth in Article 38 of Supply Contract No. 51H-59-270, the following schedules must be submitted to this office within 30 days after completion and delivery of the SJS Type-I Cells.

Waste Utilization Schedule (Weight in Grams)

1. Total <sup>material</sup> (K-235) Received
  - a. From external sources
  - b. From other jobs
2. Shipments and Transfers
  - a. Product
  - b. Samples
  - c. Virgin material
  - d. Other
  - e. Scrap for recovery
3. Recop of material remaining at completion of work
  - a. Virgin material
  - b. Re-usable material
  - c. Over-run of product
  - d. Recoverable scrap (furnish related 450's with schedule)
  - e. Unrecoverable scrap (furnish related 450's with schedule)
  - f. Book-physical inventory difference quantity
  - g. Issues
  - h. Approved inventory write-offs (discards)

RECEIVED

AUG 7 1959

F. C. HANNY

51H-59-270

1-21-3

OFFICE ▶	Materials	Materials	Materials	Supply	
SURNAME ▶	Short:pc	Wolter	Martin	Prime	
DATE ▶	6/30/59	6/30/59	6/30/59	6/30/59	

Mr. K. C. Duffy

June 30, 1959

Special Reactor Materials Utilization (Weight in Pounds)

1. Zirconium and Zircaloy
  - a. Total quantity received, including internal transfers
  - b. Total quantity in finished product
  - c. Materials remaining at completion of job - list by form, size, weight, identification
  
2. Hafnium
  - a. Total quantity received, including internal transfers
  - b. Total quantity in finished product
  - c. Losses
  - d. Material remaining at completion of job - list by form, size, and weight

It is requested that both the 25 and 1-235 weights be reflected on the uranium schedule, and that all schedules be furnished in five copies. If you should have any questions, we will be glad to discuss them with you.

Very truly yours,

D. W. Short, Acting Director  
Materials Division

CC: Mr. R. Danley, M&C

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

OFFICE ▶					
SURNAME ▶					
DATE ▶					

KNOLLS ATOMIC POWER LABORATORY

**GENERAL ELECTRIC**

SCHENECTADY, NEW YORK

SUBJECT:

SCH 59-270

FRANK.  
PER PHONE CONV. OF 11/6/59  
AL BROWN WILL PREPARE  
A LETTER FOR TRAXLER SIGNATURE  
RECOMMENDING REPROCESS OF ALL  
SCRAP LEFT AT  
November 4, 1959  
M + C  
R.E.S.

COPIES:

att: LED

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

RECEIVED

NOV 5 1959

F. C. HANNY

REPRODUCED AT GOVT EXPENSE # 18

**M & C NUCLEAR, INC.**  
 P. O. BOX 898 ATTLEBORO, MASSACHUSETTS

*FC Hanny*

REPRODUCED AT GOVT EXPENSE # 18

REQUEST FOR  CHANGE  CLARIFICATION  WAIVER  APPROVAL AND AUTHORIZATION  
 OTHER (SPECIFY) \_\_\_\_\_

TO   
 Mr. A. J. Brown  
 Knolls Atomic Power Laboratory  
 General Electric Company  
 P. O. Box 1072  
 Schenectady, N. Y.

PROJECT DESIGNATION	DATE
KAPL-97	10/22/59
CUSTOMER ORDER NO.	
SOE 59-270	
M & C NUCLEAR, INC.	
KAPL-97 #129	

GENTLEMEN:

THE FOLLOWING REQUEST IS FORWARDED FOR YOUR ATTENTION. IT IS REQUESTED THAT A REPLY BE RECEIVED ON OR BEFORE 11-5-59 IN ORDER TO PERMIT THE DESIRED ACTION TO BE TAKEN PROPERLY AND EXPEDITIOUSLY. (DATE)

CUSTOMER SPECIFICATION OR PART NAME:  
ELEMENT EVALUATION

CUSTOMER SPECIFICATION OR PART NUMBER:  
3KPP37-2 E.3

DESCRIPTION AND REASON FOR REQUEST \_\_\_\_\_ (REFER TO ANY ATTACHED DATA)

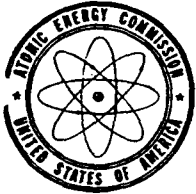
Your decision as to the disposition of all the elements (500) of the evaluation, including those sectioned, is hereby requested.

RECEIVED AT KAPL  
 OCT 26 1959  
 R. C. TRAXLER

EFFECT ON PRICE	EFFECT ON DELIVERY
RECOMMENDATION INITIATED BY G. R., Barnes	DATE 10/22/59
APPROVED BY REQUESTING ENGINEER (Name) R. M. Dunlop	DATE 10/22/59
PLEASE REPLY TO (TYPE NAME)	CONTRACT ADMINISTRATOR
	R. C. White
	DATE 10/22/59

ACTION TAKEN (TO BE FILLED IN BY ADDRESSEE) DATE November 4, 1959  
 THE REQUEST IS APPROVED AND OFFICIAL AUTHORIZATION IS ATTACHED  
 THE REQUEST IS NOT APPROVED (USE REVERSE SIDE TO STATE REASONS)  
 OTHER We acknowledge receipt of the above. See attached note.

(USE REVERSE SIDE FOR ADDITIONAL INFORMATION)  
A. J. Brown  
 SIGNATURES



UNITED STATES  
ATOMIC ENERGY COMMISSION  
SCHENECTADY, NEW YORK

*Att: WJH/HSD*

*Pls. arrange for shipment*

*3*

ADDRESS REPLY TO:  
THE MANAGER  
U. S. ATOMIC ENERGY COMMISSION  
P. O. BOX 1600  
SCHENECTADY, NEW YORK  
AND REFER TO: **ND:EPW**

REPRODUCED AT GOVT EXPENSE # 17

January 6, 1960

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

Attention: Mr. K. C. Duffy

Gentlemen:

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

In accordance with Clause 38 of the General Provisions of the subject contract, you are hereby authorized an additional 7.5 kg of enriched uranium contained U-235 in the form of [redacted] nominal chop stock. The total authorized enriched uranium is as follows:

- 138.62 kg of U-235 in the form of [redacted] nominal 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, SNEROO
- W. W. Ward, SNEROO

RECEIVED

JAN 7 1960

F. C. HANNY

KNOLLS ATOMIC POWER LABORATORY  
 FABRICATED SOURCE & SPECIAL NUCLEAR MATERIALS  
 RECEIVING INFORMATION

~~Order~~ or contract No. SCH-59-270  
 Vendor M&C NUCLEAR INC.  
 Shipper ATTLEBORO, MASS

RR No. 115930  
 101 No. MAC-56E-695  
 Date Received 2-10-60

REPRODUCED AT GOVT EXPENSE # 18

DESCRIPTION OF MATERIAL

Order Item No.	Quantity		Unit	Description
	Shipped	Received		
			elements	Acceptable
			elements	SCRAP
			elements	Neutralized
				694 grams U-235

Materials Accountability H. E. Friedman

Date February 12, 1960

ACCEPTANCE OF MATERIAL

Order Item No.	Qty.	Description	Acceptance	
			Acceptable	Unacceptable
		elements	Acceptable per instructions to Vendor	
		elements	"	"
		elements	"	"

Cognizant Engineer H. E. Friedman  
 Component NCP

Date 2-12-60

KNOLLS ATOMIC POWER LABORATORY  
SCHENECTADY, NEW YORK

Date: December 30, 1959

To: M & C Nuclear, Inc.  
Attleboro, Massachusetts

Subject: M & C N "PROPOSED CERTIFICATION"  
INFORMATION to Vendor No.

CONTRACT SCH 59-270 - IV # 62

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.

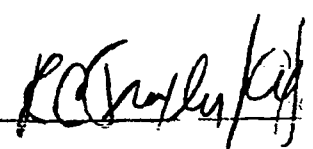
- SM Bishop
- CF Derse
- AN Doonan
- JV Goldthwaite
- GA Hanlon
- FC Hanny
- JF Kagay
- GR Kingsbury
- CE Lacy
- HA Loucks
- HR Pagano (2) MET 1/5
- WJ Prime
- S Sturges
- RC Traxler
- WW Ward (2)
- AD Whitehead (Lt. Cdr.)

RECEIVED

FEB 11 1960

F. C. HANNY

Cognizant Requester:



KNOLLS ATOMIC POWER LABORATORY  
P. O. 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:

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-KFP 37-2, Revision 5, Section J-1
- (3) Specification 3-KFP 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)

Cognizant Requester: 



KNOLLS ATOMIC POWER LABORATORY  
P. O. 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:

\*\*\*\*\*

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 3)

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.

Cognizant Requester: 

INOLLS ATOMIC POWER LABORATORY  
SCHENECTADY, NEW YORK

Date: April 22, 1960

To: M & C Nuclear, Inc.

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

REPRODUCED AT GOVT EXPENSE # 18

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

Instruction

Fixed Fee

None

(SIGNATURES REQUIRED)

Programming

Cost and Budget Control

Approved: 7th Level Manager

6th Level Manager

5th Level Manager

4th Level Manager

General Manager

*[Handwritten Signature]*

DISTRIBUTION:

KC Arnold (M&C)

SM Bishop

AC Bonk

HF Brown

CF Derse

AN Doonan

GA Earlon

FC Hanny

JF Kagay

GR Kingsbury

CE Lacy

RA Leavitt

HA Loucks

HR Pagano

WJ Prime

B Sturges *JA*

RC Traxler

WW Ward (2)

AD Whitehead (Lt. Cmdr.)

BF Cowell K.A.P 3285 (10-58) REV. (I.V. PART 2)

RECEIVED

APR 27 1960

F. C. HANNY

Cognizant Requester:

*[Handwritten Signature]*

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

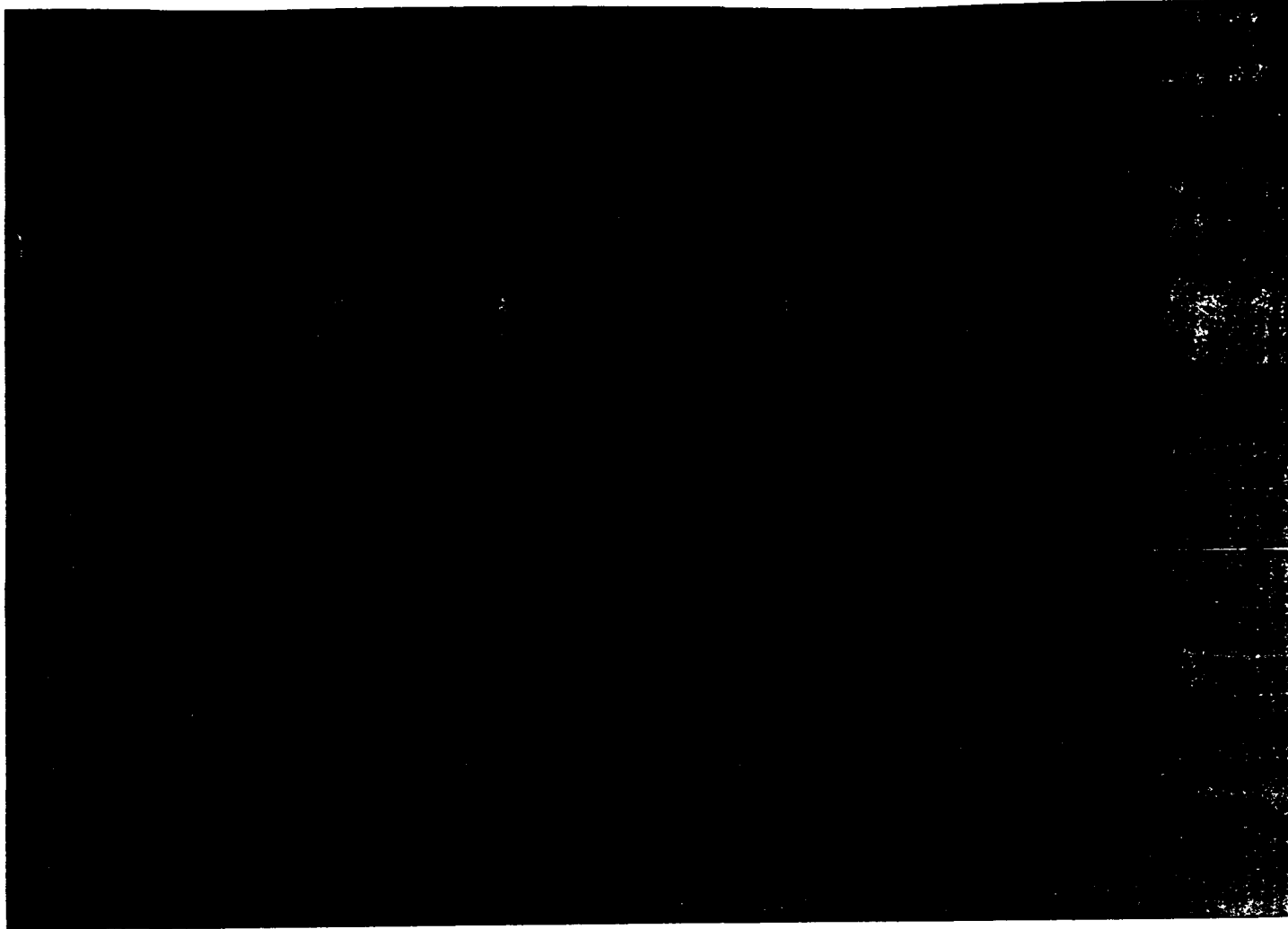
Date: April 22, 1960

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

Attention: Mr. R. M. Dunlop

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

Reference:



Cognizant Requester PC Thally/Bram

Date: April 22, 1960

PAGE 2

TO: M & C Nuclear, Inc.

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

PRODUCED AT GOV'T EXPENSE # 18



RECEIPT OF THIS IV MUST BE ACKNOWLEDGED.

Cognizant Requester:

*[Handwritten signature]*

(Continued on Page 3)

Date: April 22, 1960

PAGE 3

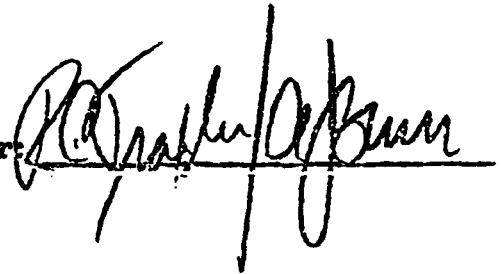
To: H & C Nuclear, Inc.

Instruction to Vendor No. ECH 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.

Cognizant Requester:



INOLLS ATOMIC POWER LABORATORY  
SCHENECTADY, NEW YORK

Date: August 8, 1960

To: M & C N, Attleboro, Mass.

Subject: Certification 365 Core Alloys Item 5D of Amendment #44 Contract SCE 59-270  
Instruction to Vendor No. #86 - Contract SCE 59-270

REPRODUCED AT GOVT EXPENSE # 18

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

Fixed Price

None

(SIGNATURES REQUIRED)

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

DISTRIBUTION:

- KC Arnold - M & C N
- SM Bishop
- AC Bonk
- AJ Brown *AB*
- BF Cowell
- CF Derse
- AN Doonan
- FC Hanny
- JF Kagay
- GR Kingsbury
- CE Lacy
- RA Leavitt
- IM Loeb
- HA Loucks *Hal*
- WJ Prime
- S Sturges *S*
- ME Thiebaud *ME*
- RC Traxler
- WW Ward (2)

AD Whitehead (Lt. Cmdr.)

RECEIVED

AUG 12 1960

F. C. HANNY.

Cognizent Requester:

*ME Thiebaud*

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

REPRODUCED AT GOVT EXPENSE # 18

Date: August 8, 1960

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

Attention: Mr. R. M. Dunlop

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

Instruction to Order No. #86 - Contract SCH 59-270

Reference:

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

*[Handwritten Signature]*  
Cognizant Requester: *[Handwritten Signature]*



Utilization Schedule requested per  
Clause #38 Paragraph F of Contract  
By S W Short on 6/30/59. al. notified  
FEL 10/4/60

10/3/60

Alta L.

Les, supply contract Sch 59-270 except  
for some small odd jobs is complete. 35 cells  
have been shipped from MFCW 9/29/60. Based on  
this and because we would like to clear up  
all loose ends, please see what your office  
can do about the following:

1) Obtaining a complete listing of all  
government owned materials with a recommended  
disposition. Particularly, H<sub>2</sub>, V<sub>2</sub>, and  
parts fabricated from zircaloy which belongs  
to the government.

2) Obtain listing of government allocated  
materials whether or not owned by MFCW.

3) Recommend or take appropriate steps to  
clear up any problems with special materials  
such as [REDACTED] rods etc.

4) Keep us completely advised as to the type

Alta L.  
D. Brown  
4

M & C NUCLEAR, INC.  
ATTLEBORO, MASS.

October 7, 1960

To: Mr. Thomas Kissinger  
KAPL

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 LEO*  
Disposition desired for material on hand at M & C. *TWK'S LETTER TO AFEC 10/12/6*  
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,

*K.C. Duffy*

K.C. Duffy  
SS Materials Representative

RECEIVED

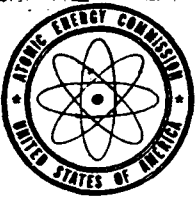
OCT 10 1960

F. C. HANNY,



MEMO	CONT	BATCH	REQ	C	GROSS	TARE	NET
178A	9070	820 1640	912744	49-629		68	
178A	9058	820 1640	912744	49-629		69	
178A	9077	820 1655	912714	49-534		69	
178A	9075	820 1655	912714	49-534		70	
178A	9071	820 1655	912714	49-534		69	
178A	9073	820 1659	912729	49-629		75	
178A	9074	820 1659	912729	49-629		70	
178A	9043	820 1665	912705	49-722		69	
178A	9057	820 1667	912748	49-722		69	
178A	9062	820 1667	912748	49-722		69	
178A	9063	820 1667	912748	49-722		69	
178A	9072	820 1672	912760	49-251		70	
178A	9067	820 1672	912760	49-251		69	
178A	9068	820 1672	912760	49-251		69	
178A	9076	820 1675	912769	49-613		70	
178A	9065	820 1675	912769	49-613		70	
178A	9064	820 1675	912769	49-613		69	
					73,205	1,183	72,022

S.S.G.



UNITED STATES  
ATOMIC ENERGY COMMISSION  
SCHENECTADY, NEW YORK

REPRODUCED AT GOVT EXPENSE # 1

ADDRESS REPLY TO:  
THE MANAGER  
U. S. ATOMIC ENERGY COMMISSION  
P.O. BOX 1689  
SCHENECTADY, NEW YORK

September 27, 1960

AND REFER TO:  
AD: WCH

General Electric Company  
Knolls Atomic Power Laboratory  
Schenectady, New York

Attention: Mr. L. M. Losh

Gentlemen:

Reference is made to my letter of September 21, 1960 with the enclosed copy of the [redacted] letter from M & C Nuclear, Inc., File: KAH-97, which detailed the unit cells, including the contents thereof, which were fabricated under Contracts SCH 59-270, SCH 58-41, and SCH 58-237.

[redacted]

[redacted]

Please make these changes in your copy of the M & C Nuclear, Inc., letter.

[redacted]

Very truly yours,

D. W. Short, Director  
Materials Division

CC: F. C. Hanny  
R. C. Trazier

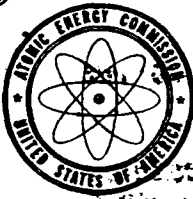


RECEIVED

SEP 28 1960

F. C. HANNY.

[redacted]



UNITED STATES  
ATOMIC ENERGY COMMISSION  
SCHENECTADY, NEW YORK

att: ~~STW/HSD~~  
SAL file

ADDRESS REPLY TO:

THE MANAGER  
U. S. ATOMIC ENERGY COMMISSION  
P. O. BOX 198  
SCHENECTADY, NEW YORK

REPLY TO:

Enclosed for the Department of the Navy, Washington, D.C., are two copies of the report...

The report is being prepared for the Department of the Navy...

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

SEP 23 1960

Attention: Mr. George Williams

Gentlemen:

The Commission has been authorized to transfer the S3G Cores 1C and 1D for the USS 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 Navy.

Edw  
OK  
9/20

The Commission is making all arrangements to accept the cores and spares for your plant, Attleboro, Massachusetts. However, as required by Contract SCE 59-270, M & C Nuclear, 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 Commission designated common carriers at the Attleboro, Massachusetts railroad siding. These arrangements are based on the shipment taking place during the week of September 25, 1960. An AEC representative will accept the cores and spare reactor cells on a courier receipt and in effect deliver them to the Navy. No Form AEC 101 will be issued for this transfer, but in lieu thereof, you will have as supporting data a signed courier receipt for the release of the material to the AEC and, you will also receive a copy of a letter

You are hereby authorized to remove the special nuclear material from your inventory 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 MBR for the transfer must be

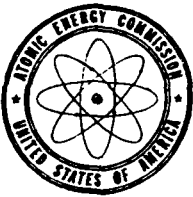
note  
HSD

RECEIVED

SEP 23 1960

F. C. HANNY.





UNITED STATES  
ATOMIC ENERGY COMMISSION  
SCHENECTADY, NEW YORK

ADDRESS REPLY TO:  
THE MANAGER  
U. S. ATOMIC ENERGY COMMISSION  
P. O. BOX 1989  
SCHENECTADY, NEW YORK

September 21, 1960

General Electric Company  
Knolls Atomic Power Laboratory  
Schenectady, New York

Attention: Mr. L. M. Loeb

Gentlemen:

Enclosed is a copy of a Confidential-Restricted Data letter dated September 16, 1960 from M & C Nuclear, Inc., file: KAPL-97, which details the unit cells, including contents thereof, which were fabricated under Contracts SCE 59-270, SCE 58-41, and SCE-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-Navy.

Very truly yours,

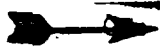
RECEIVED

SEP 21 1960

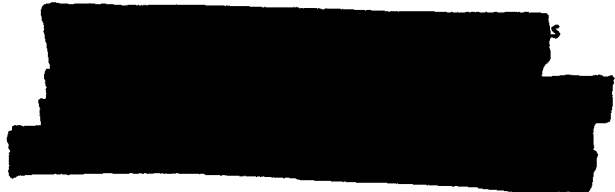
B. W. Short, Director  
Materials Division

Enclosure:  
As above

F. C. HANNY.



F. C. Hanny, w/encl.  
R. C. Traxler, w/encl.  
W. W. Ward, w/encl.









REACTOR CELL LIST

Attachment (a) - Certification

Dated Sept. 21, 1960

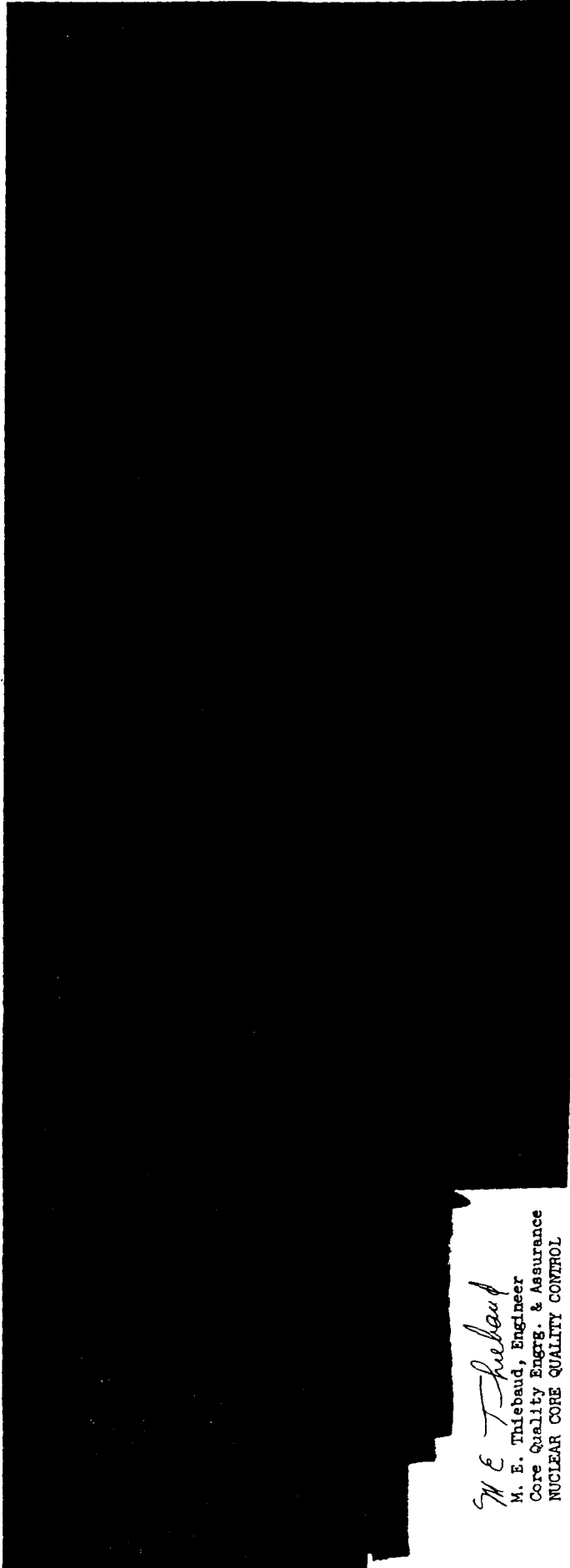
Contract SCR 59-270

REACTOR CELL LIST

Attachment (a) - Certification

Dated Sept. 21, 1960

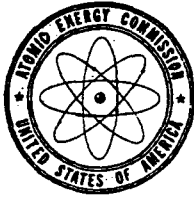
Contract SCH 59-270



*M. E. Thiebaud*

M. E. Thiebaud, Engineer  
Core Quality Engrg. & Assurance  
NUCLEAR CORE QUALITY CONTROL





UNITED STATES  
 ATOMIC ENERGY COMMISSION  
 SCHENECTADY, NEW YORK

*File*  
 ATT: LED  
 to SA L for file

REPRODUCED AT GOVT EXPENSE # 18

ADDRESS REPLY TO:  
 THE MANAGER  
 U. S. ATOMIC ENERGY COMMISSION  
 P. O. BOX 1099  
 SCHENECTADY, NEW YORK  
 AND REFER TO:

MD:WGM

RECEIVED

OCT 28 1960

October 27, 1960

B. H. CALDWELL

RECEIVED

OCT 28 1960

General Electric Company  
 Knolls Atomic Power Laboratory  
 Schenectady, New York

Attention: Mr. B. H. Caldwell

F. C. HANNY

Gentlemen:

Reference is made to Mr. F. C. Hanny's letter of October 13, 1960, 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:

1 can hafnium fines	4.7 pounds - certified
1 can hafnium shavings	6.7 pounds - certified
1 box hafnium chunks	5.6 pounds - certified
1 electrode stub	2.5 pounds - certification questionable
1 can hafnium/zirconium solids - mixed	3.0 pounds - non-certified
1 barrel hafnium/zirconium fines - mixed	38.0 pounds - non-certified
	<u>30.5</u> pounds

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)-68 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,

*D. W. Short*

D. W. Short, Director  
 Materials Division

CC: F. C. Hanny