Superfund Records Center SITE: Shpack
BREAK: 11,9
OTHER: 209710

REPRODUCED AT GOVT EXPENSE # 18

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The work under this contract is assigned Priority Rating DO-E-?, Certified under DMS Reg. 1.

Items 1 and 2 shall be fully completed and delivered by July 1, 1958.

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

Terms and Conditions identified as AEC Form 103a, as modified by attached Alterations, pages 1-10, are made a part of this order.

June 4, 1958

The Manager U.S. Atomic Energy Commission Schenectady Operations Office Enolls Atomic Power Laboratory Schenectady, New York

Attention: Mr. W. J. Prime

Subject: and FPR Fuel, MR-79816 and 90834

Dear Sir:

Finalized fuel requirements for the ATR and FFR are as follows:

Item 1 KAPL drawing 105A9192 Part 1, Rev. 2

KAPL drawing 105A9192 Part 3, Rev. 2

- a. KAFL ATE Fuel specification, revised May 26, 1958, shall apply to both Item 1 and 2.
- b. Material: in 1100 aluminum alloy.
- c. Section F-10-b of the ATR specification is changed to read:
 Assay and take the average as the nominal
- d. Section C-2 of the ATR specification is changed to read: KAPL Sketch 105A9192, Fuel
- e. All notes on drawing and specification must be strictly adhered to.

f. Muclear Core Quality Control field inspection is required during fabrication and prior to shipment.

g. Delivery requirements are 30 days after receipt of orders.

MAC Suclear, Inc. of Attleboro, Massachusetts previously furnished KAPL fuel loadings for the initial and reload ATR, PTR, and FPR plus various small orders with urgent requirements. KAPL SAR Physics personnel have advised us that cooperation, quality, and delivery on these orders has been very satisfactory.

The above vendor has indicated they have the capacity and ability to deliver the fuel plates listed above per our requirements. Also, at MEC, KAPL has resident inspectors and technical personnel available to aid in resolving problems which may occur during fabrication and thereby expedite delivery.

Based on past experience \$8,750.00 for the furnishing of the above is considered fair and reasonable, and it is recommended that an order be directed to MaC Buclear Inc. immediately for same.

J. E. DeMers

Muclear Core Production Control

VbbLoasq

G. A. Hanlon, Manager Nuclear Core Operation

CC: H. F. Brown

G. W. Vonstentine

C. E. Smith





KNOLLS ATOMIC POWER LABORATORY

TELEPHONE 3-6611 OR LD-160 SCHENECTADY, NEW YORK

June 3, 1958

The Manager Schenectady Operations Office U. S. Atomic Energy Commission Knolls Atomic Power Laboratory Schenectady, New York

Attention: Mr. W. J. Prime

SUBJECT: ATR

FUEL MR-79816

Gentlemen:

Finalized fuel requirements for the ATR as follows:

are

Item 1 - KAPL drwg. 105A9192 part 1

- A) KAPL ATR fuel specification, revised May 26, 1958 shall apply.
- A) Material:
- C) Section F-10-b of the above ATR specification is changed to read:

Assay and take the average as the nominal



- D) Nuclear Core Quality Control field inspection is required during fabrication and prior to shipment.
- E) All notes on drawing and specification must be strictly adhered to.
- F) Delivery requirements are 7/1/58.
- G) Nuclear Core Production Control to follow.
- H) Section C-2 of ATR spec. changed to read: dwg. 105A9192. You have in your possession, a quotation of \$6,000 from M&C Nuclear, Inc. for the furnishing of the above.

Mr. W. J. Prime

-2-

June 3, 1958

The submitted price is considered fair and reasonable and it is recommended that an order be directed to M&C immediately.

Very truly yours,

John E. DeMers

Nuclear Core Production Control

Approved:

G. A. Hanlon, Manager Nuclear Core Operation C. E. Smith, Manager Nuclear Core Prod. Control

H. F. Brown, Manager

Nuclear Core Engineering

G. W. VonStetina, Manager

Nuclear Core Quality Control

M&C

NUCLEAR, INC.

ATTLEBORO, MASSACHUSETTS

May 7, 1958

Cyto Like - frec.

The role U. S. All to Liergy (e. Tu P. G. Lim 1069 Schem. Pay, N. Y.

Attention: Mr. W. J. ...me

Gentlemen:

SCH-461

This quotation will supersede our letter of April 9, 1958, and is based on a telephone conversation of May 7, 1958, with Dr. Luce (KAPL) regarding quantity and size of plates to be purchased. M&C will generally in accordance with your Schedule to Invitation to Bid No. 3CE-461 as amended by Dr. Luce's call. Our firm fixed price for this work is \$6,000.00 and is contingent on the following exceptions to the "ATR Fuel Specification" by R. G. Luce, dated April 14, 1958.

1) Section F, Item 7 and Section I, Item 4.

M&C Nuclear has established handling procedures which are approved by the Commission, and we propose to apply these to this work. Details of these procedures can be supplied if necessary.

2) Section F, Item 10 For Section 11717. 3

The reduction in z=-1 of the statistical assurances improbable there z=-1 purpose to do the following:

- a) Take three samples per ingot, one each from top, upper or lower third, and bottom in condition.
- b) Assay and take the average as the nominal
- c) Each individual assay from top, middle, and bottom must be no more than + 5% (relative) different from the nominal calculated in item b).
- 3) Section H, Item 3.

Previous experience with fluorescent x-ray on a similar job indicates that this procedure merely confirmed visual inspection and was not necessary. Since this is an expensive procedure, we have not included it in this quotation. It is also requested that MAC be supplied with reasonable surface standards beyond the mandatory 63 runs.

Ril 4961

4) Section H, Item 1.

We request that the requirement for inspection of starting material be clarified. For the price quoted, we have interpreted this to mean use of material certified by our suppliers rather than an inspection by M&C of every piece of starting material.

5) Section H, Item 4.

outlined in Section 1 - Commend on the procedure outlined in Section 1 - Commend in this proposal.

It will be necessary for the Commission to supply 5 kg. of uranium of required enrichment Delivery can be scheduled within one month of your purchase order and receipt of the above material. The terms for this bid are net 30 days, F.O.B. our plant with shipping charges prepaid if desired.

We request that an indemnity clause covering MAC Nuclear against third party liability and a "hold harmless" clause for damage to physical property of the General Electric Company and/or the U. S. Government be included in the purchase order.

Thank you for the opportunity is if on this work.

I accresy yours,

W. C. Paynton

Project Administrator

4

P/1

May 12, 1958

The Manager
Schemestedy Operations Office
U.S. Atomic Energy Commission
Emplis Atomic Power Laboratory
Schemestedy, New York

Attention: Mr. W. J. Prime

Subject: SCH 161 - ATR Fuel Specifications

The quotation given by the M and C Nuclear Inc. is satisfactory with the following transfer related to their letter of 7 May 1958.

Paragraph 1 and 2 are satisfactory. Paragraph 3, visual inspection is satisfactory. It will accept as a surface standard, a best effort. Paragraph 1, it is felt that percent on the order of 10% of the starting material should be inspected by Mand C. This to be chosen at random. Paragraph 5, the observation made in this paragraph is concurred with.

If there are any further questions regarding this quotation I will be glad to straighten them out if possible.

Very truly yours,

R. G. Luce, Manager

SAR Critical Assomblies

ROL/dim

Metique

RECEIVED

JUN 4 1958

C. E. SMITH

ATR Fuel Specification

Revised

May 26, 1958

1

4 2

General Electric Company KNOLLS ATOMIC POWER LABORATORY Schenectady, New York

A. Title

ATR FUEL

B. Scope

This specification covers the dimensional, material and inspection requirements for ATR fuel

C. References

- 1. The following specifications are applicable in whole or in part to this specification:
 - a. Knolls Atomic Power Laboratory Specification

O-KPMO-3, Cleaning Standards for Equipment for Naval Reactors

b. Government Specification

MIL-STD-105A, Sampling Procedures and Tables for Inspection by Attributes

c. Other Specifications

1100 Series, Commercially pure aluminum ASTM Specification No. E-9151T, Estimating the average grain size of non-ferrous metals other than copper.

2. Drawings

KAPL Sketch Manager, Fuel

D. Definitions

- 1. The ATR fuel is described in this specification
- 2. Fuel represents material of specific composition fully homogenized in accordance with this specification.
- 3. Total uranium (Oak Ridge Produce) is the sum of all uranium isotopes present of which the isotope U-235 exceeds 90% by weight.

E. Service Requirements (For Information)

1.

2.

F. General Requirements

- 1. Close liaison must be maintained between the venuer and KAPL. The vendor shall permit officially designated KAPL and Government representatives free access at all times to quality control records and to the premises where the work is being performed. All operations shall be subject to KAPL surveillance inspectors.
- 2. The contractor shall designate an individual who will actually supervise the work. Communication between the contractor and KAPL shall be through this individual.
- 3. KAPL will supply all drawings and specifications that were originated at KAPL, but procurement of other specifications is the responsibility of the contractor.
- l. KAPL will have the right to make major changes in the design and composition provided the general nature of the work is not changed, however, the extent of the effect of the contractor's price must be agreed upon before any new work is undertaken.
- 5. The contractor shall not proceed with any phase of the work which his judgement has not been adequately clarified. Under these circumstances, the contractor shall promptly notify KAPL.
- 6. Suitable accountability procedures must be set up to account for all fissionable material at every step in the manufacturing process. Such procedures must be in accordance with existing AEC regualtions. (Vol. 7000, Part 7100, Materials Accountability, AEC Manual)
- 7. Procedures for the handling of fissionable material approved by the AEC shall be used.
- 8. Care shall be taken at every step in the fabrication process and storage to avoid contamination by foreign materials since these may adversely affect the reactivity of the fuel
- 9. Weight measurements of materials used must be made and recorded. Accuracy of weighting shall be ± 0.02 grams (equivalent to interpolation of 1/5 division on Metrogram balance).
- 10. Sampling shall be made on the following basis:
 - a) Take three samples per ingot,
 - b) Assay and take the average as the nominal
 - c) Each individual assay from top, middle, and bottom must be no more than ± 5% (relative) difference from the nominal calculated in item b).

11. The vendor will supply 1100 Series grade aluminum for alloying.

G. Detailed Requirements

- 1.
- 2. The identity the maintained throughout the manufacturing process and related to the KAPL classification of starting fuel discs or uranium ingot. Identification numbering shall not impair the structural integrity the maintained throughout throughout the maintained throughout throughout throughout throughout the maintained throughout througho
- 3. shall be suitably cleaned to remove surface contamination and prevent corrosion. Cleaning shall be performed in accordance with KAPL specification O-KPMO-3, Grade B.

H. Inspection and Tests

- 1. Compliance of all requirements must be certified by the vendor's inspectors. This shall include a 10% random inspection of starting materials as well as inspection of results of work in the vendor's shops.
- 2. Inspection records must be kept and parts marked or tagged in accordance with Section G-h, so that the inspection history can be determined. These inspection records are to be delivered to KAPL at the termination of the contract.

Visual examination shall be performed for the presence of surface flaws. A best effort will be accepted.



- La Tab ends constituting about a 5 gram sample representing top and bottom of each representative fuel alloy ingot shall be chemically analyzed for total uranium content and recorded by vendor.
- 5. The vendor shall provide all personnel, inspection, test equipment, and services necessary to meet the requirements of this specification.
- 6. Fuel plates which do not conform to the specification requirements may be reviewed with the KAPL cognizant engineer for waiver. The procedure to be used on these occasions shall include presentation of the inspector's report to the KAPL representative for his disposition.

I. Packing, Shipping, and Marking

- 1. After being suitably cleaned as described in Section G-5, must be handled with clean lint free cloth gloves to avoid contamination with grease, perspiration, dirt, etc.
- 2. shall be individually packaged in a manner which will prevent damage or contamination by foreign matter during storage for shippment.
- 3. Identification numbers shall be marked on the outside of each container
- h. Criticality precautions specified in Section F-7 shall be observed in handling, shipping and storing

J. Certification and Warranty

The vendor shall provide three certified copies of all inspection records to KAPL, signed by a only authorized representative of the vendor. The extent of such records shall be agreed upon between KAPL and the vendor.

FAC Huclear Inc. Attleborg, Hessachmetts 7/2/58 SCB-5B-35L I L33712

Mr. W. C. Payuten

ATE and FPR Pool

Berisod requirements

Please be advised that impressed quantities will be acceptable to EAPL as follows:

Item 1 - increase from

All other conditions of contract remin the case.

McC	Muclean	Inc.
Atti	eboro.	Massachusetts

Date 7/2/58
Order #SCH-58-354
IV # I
S.O. 1.3873.9

VENDOR CONTACT Mr. W. C. Paynton

Subject:

ATR and FPR Fuel

Reason for Change:

Revised requirements

Reference:

CHANGES PROPOSED

Please be advised that increased quantities will be acceptable to KAPL as follows:

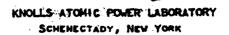
Item 1 - increase from

All other conditions of contract remain the same.

DISTRIBUTION ... IV

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Section Manager
Programming
Dep't or General Manager

Cognizant Requester January



PROCUREMENT APPROVAL - SOURCE AND SPECIAL NUCLEAR (SS) MATERIAL

TO: MANAGER - PURCHASING KAPL

	1	VENDOR MAC Muci		
ROII	QUIRY #	STRUCTION #	INFORMATION, #	
PROJECT COMPONENT	प्राथम	REQUESTOR	R. J. Metzger	
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PURCHASE ORDER

EX 014-521 CODE 518

KNOLLS ATOMIC POWER LABORATORY

PURCHASING

EXPENSE # 18

TWX 518 - 556 - 2393 TELEPHONE 393 - 6611 P.O. BOX 1072

SCHENECTADY, NEW YORK 12301

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A. W. KISSINGER

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2. Administrative Requirements

2.1. Seller shall be fully responsible at his own expense for obtaining and maintaining in effect all necessary licenses and approvals. (Ref. Article 52).

3. Delivery Requirements

KAPL requires and it is essential that delivery for Items 1, 2, and 3 be made on or before four (4) weeks after receipt of order.

4. Terms and Conditions of Purchase

Purchase Order Supplement General Terms and Conditions of Purchase AEC 365-1 is hereby modified as follows:

4.1. Modification to AEC 365-1 dated 12-29-65.

5. Shipping Instructions

- 5.1. All shipments from KAFL shall be made f.o.b. KAFL under Seller's license in accordance with Article 52 of AEC 365-1. Risk of loss in transit will remain with KAFL until arrival at destination. KAFL will reimburse Seller for shipping charges. All shipments shall be prepaid with shipping charges billed separately when invoicing the specific items. The invoice shall be accompanied by the original freight bill or a copy certified by the carrier.
- 5.2. Approval through Materials Division, SMRO-AEC shall be obtained prior to each shipment.
- 5.3. One (1) copy of all shipping documents (including a courtesy copy of the completed nuclear material thansfer form (Form 101) if Station KZA is not on the distribution) shall be mailed at the time of shipment for any special nuclear material under this order to:

Knolls Atomic Power Laboratory
P. 0. Box 1972
Schenectady, New York 12301
Attention: Mr. J. K. Gingrich

5.4. Seller's shipping containers identified as "returnable" will be returned to Seller "Freight Collect."

PURCHASE ORDER

KNOLLS ATOMIC POWER LABORATORY

PAGE 3 OF 3 PAGES. VENDOR Metals and Controls, Inc. PURCHASE ORDER NO. 9117-D

6. Security Requirements

Your attention is directed to the fact that this order covers work classified as CONFIDENTIAL/RESTRICTED DATA. Security requirements that apply to this order are contained in Article 17 of AEC 365-1. The information contained in the document attached entitled "Supplementary Security Provisions" identified as Attachment No. 2 is provided to assist you in meeting the aforesaid security requirements.

REPRODUCEO AT GOVT EXPENSE #

7. Replacement of Fuel Material

- 7.1. PARO-SMRO concurrence has been obtained authorizing transfer of this material to KAPL.
- 7.2. General Electric will replace 35 grams of U-235 for PMRO Contract AT(36-1)-127.

X



D. W. SHORT, DIRECTOR MATERIALS DIVISION, SAR

APRIL 4. 1966

MR. W. S. HOLBURN, METALE AND CONTROLS, INCORPORATED, ATTLEBORO, MASSACHUSETES
REJECT OF 4/4/66 REQUESTING APPROVAL TO SHIP ONE (1) ENRICHED URANIUM FUEL
ELEMENT TO KAPL AS FABRICATED UNDER CONTRACT AT (36-1)-127. IT IS UNDERSTOOD
ELEMENT WILL BE TRANSFERRED TO NPD-9117-D WITH TRANSFER DOCUMENTED ON PNR-14
FORM. AUTHORIZATION HERBY GRANTED TO MAKE SHIPMENT AS REQUESTED UNDER
REQUIRED SNM LICENSING PROVISIONS, F.O.B. KAPL.

CC: J. K. Gingrich/W. J. Gallagher, KAPL - Mailed



METALS & CONTROLS INC.

TEXAS INSTRUMENTS

INCORPORATED

FILE: KAPL-331, 347, 308, 305

22 April 1966

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

ATTENTION: Mr. R. C. Bisbee

SUBJECT: Material Utilization Schedule

Dear Sir:

In accordance with order requirements enclosed are 2 copies of the final Material Utilization Schedule covering the uranium material received for use under Purchase Orders NPD-7378-D, NPD 9117-D, NPD 6820, and NPD 6507.

Since this covers complete utilization through reclamation and return to the commission facility, final invoices covering the amounts being withheld less our loss liability will be transmitted under separate cover.

Yours very truly,

J. WHITE

Contract Administrator

Encl: 2

1c

cc: D. Short SNRO (Attachments)

J. Norris M&C

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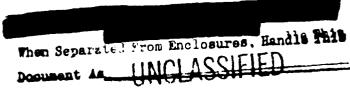
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7. -0.1908

R. C. BISBEE

2 - 1960

J. W. KISSINGER





MATERIAL UTILIZATION SCHEDULE KAPL-347

KAPL-347 N-00480

Project: K-40700-00-1

Contract: NPD-9117-D

April 21, 1966

Receipts:	SS	U-235
Transferred From AT(36-1)127	31	29
Removals:		
KAB-KZA-78	31	29
Balance To Account For	0	0

Wallace S. Holburn

SS Materials Representative

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APR 25 1966

T. W. KISSINGER



April 26, 1966 Mi-445

The Munger Achemetady Surel Substance United States Atomic Sucry Commission Schonestady, Nov York

Sub Ject:

Completion of Min 9117-D

Metals & Controls Inc.

Actoresce: Utilization Schools dated 4/21/66

Door Sir:

NPD 9117-B issued on Mutals & Controls Inn. was for the purchase of one fuel element fabricated; on a FMH contract. The element has been received at KAPL on ARC-101 KAB-KKA-70.

Thomath as no losses was implied with the order, it is now considered complete.

Tary truly yours,

J. L. Singrich, Manager MCO SUPPOST & MAT'LE CONTROL

JES/THE/LOS

ces Dake Short

bec: R.C. Bisbee

S.R. Bosley

K.A. Kesselring

C.B. Stabl

3:00

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MAY 3 1966

J. K. GINGRICH

D. W. SHORT, DIRECTCA MATERIALS DIVISION, SNR

X

MAY 2, 1965

MR. J. WHITE, METALS AND COMPROLS, INCORPORATED, ATTLEBORO, MASSACHUSETTS
COPY TO: W. S. HOLBURE, MAC

REURTT OF 4/29/66 RE 10 KG. VIRGIN URANIUM FOR AT (30-3)-529. W. HOLDURN
HAS BEEN ADVISED TO TRANSFER 998 GRANS U-235 FROM NPD-7378 AND 355 GRANS
U-235 FROM NPD-6507 TO AT (30-3)-529. KAPL WILL SHIP 6980 GRANS U-235 AND
BAPL WILL SHIP 1750 GRANS U-235 FOR A TOTAL OF 10083 GRANS U-235. ASSIGN
35 GRANS U-235 TO NPD-3117 AND 48 GRANS U-235 TO ALTERATION 7A, AT (30-3)-529,
BALANCE OF MATERIAL (10000 GRAMS U-235) IS BEING SUPPLIED UNDER PARAGRAPH
386 OF THE CONTRACT.

CC: J.K. Gingrich, KAPL - Mailed P.E. Bobe, SMR
J.T. Kechane, SMR
S. Faufman, SMR

J. Fowledge, KAPL - Mailed

MIC NPD-8748

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KNOLLS ATOMIC POWER LABORATORY

PURCHASING

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KNOLLS ATOMIC POWER LABORATORY

AT GOVT EXPENSE

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PAGE OF PAGES. VENDOR MODEL CONTROL PURCHASE ORDER NO STAR

THE POLICIONS INSTRUCTIONS SHALL APPLY:

1. Technical Requirements

- 1.1. KAFL Drawing 7109866, Bev. J.
- 1.2. Technical Supplement #2, Rev. 1, dated 2-22-66.

2. Administrative Requirements

- 2.1. Items 2 and 3 shall be sent to KAPL, Attention: T. Kiely, 202, E-1.
- 2.2. In the event the requirements of the order are modified, Seller agrees to submit with his proposal covering any changes to the order, including change orders, a detailed cost breakdown using Form KAP 1645A (1-65) Rev. or equivalent. (A copy is attacked for Seller's information.)
- 2.3. Seller shell notify KAFL forty-eight (48) hours prior to all welding and straightening operations so that they may be witnessed by KAFL personnel.

3. Delivery Requirements

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

- 3.1. Item 1 on or before five (5) weeks after receipt of order.
- 3.2. Item 2 on or before six (6) weeks after receipt of order.
- 3.3. Item 3 on or before three (3) working days after receipt of order.

4. Terms and Conditions of Parabase

Perchase Order Supplement, General Terms and Conditions of Purchase AEC 365-1 is bereby modified as follows:

- 4.1. Modification to ANC 365-1 dated 12-29-65.
- 4.2. Add Article 53 of AEC 365-1 entitled "Government Furnished Zircaloy Material", Rev. 10-27-64.
- 4.3. Under the provisions of Article 9 entitled "Government Property" General Rectric will furnish to Seller the following items of Government Property for use in connection with and under the terms of this order.
 - 3 ea. Lircaloy elements

350 ca. Zircaloy

This material will be transferred from the 529 contract.

PAC	it3	OF	3	_ PAGES.	VENDOR	Metals.	end Contr	ols	PURCHASE	ORDER NO	8748-B

5. Shipping Instructions

5.1. Sectioned Items 1 and 2 shall be packaged in a container in a manner which will prevent damage during shipment.

6. Security Requirements

6.1. Your attention is directed to the fact that the proposed order covers work classified as COMPARETIAL/RESTRICTED DATA. Security requirements that apply to the order are contained in Article 17 of AEC 365-1. The information contained in the document attached entitled "Supplementary Security Previsions" identified as Attachment No. 2 is provided to assist you in meeting the aforesaid security requirements.

Cortified for matinual defense use under IMS Regulation No. 1. Seller is required to follow the provisions of IMS Regulation No. 1 and of all other applicable regulations and orders of EMSA in obtaining controlled materials and other products and materials needed to fill this order.

General Electric Company KNOLLS ATOMIC POWER LABORATORY Schenectady, New York

March in 1966

MEMO TO:

J. T. Keobane

CK

Subject:

Contract AP(30-3)

References:

- (1) NR Letter I-#14,928
- (2) NR Letter Q-#301 and Q-#385 (3) KAPL Purchase Order NPD-8739-Y
- (4) KAPL Memo GH Wilbur to JT Keohane dated 2/15/66
- (5) KAPL Purchase Order NPD-8748-D

Please authorize Metals and Controls to transfer the following material from the subject contract to Purchase Orders (References 3 and 5):

8748	8739		
O	5	Drawing 7109F66, Rev. J, Pt. 9.	,
3	6 .	Drawing 7109F66, Rev. J, Pt. 15.	
350	850	Zircaloy	

This material is excess to the requirements of the subject contract by authority of Reference (1), and will be used on the C-68 development program authorized by Reference (2).

This memo supersedes Reference (4).

T. E. Kiely/

Core Component Development

NUCLEAR CORE OPERATION

Procurement Engineering Production Cores

NUCLEAR CORE OPERATION

TEK/GHW/sf

cc: C.C. Cramer-AEC

D.W. Short -AEC

A-1, 218 bcc: GE Halm

RG Hobday A-4, 16

TW Kissinger G-2, 309

B. Pecora C-2, 111

NPD 8748

h. . Einer, biblioge PARTICULAR BIVINING, SUR

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MURCA 7, 1956

For the medical medals are committee, incorposation, medicalistic machinesis and IRIT. MR. J. MARKETT, INC

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on Williams 3412 - EIRE

C.C. Crumspass

T. Lochem, DIR

C.E. Vilbur, MAPL - Mailet

J. L. A'RETLON/2. V. Electioner, EAPL - Motles

in a benday, EASL - Mailed

C. L. Ricky, MAPL - Mailed

Film ETET39-T NOTED TABLE

NPD-8739 MIC

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PURCHASE ORDER

114-	52
ME	E 10

TWX 518-556-2393 TELEPHONE 393-6611

KNOLLS ATOMIC POWER LABORATORY.

PURCHASING

P.O. BOX 1072

SCHENECTADY, NEW YORK 12301

<u> </u>	OFER	ATED BY THE GEN	IERAL ELECTRIC COMPANY UNDER	GOVERNMENT CONTRACT W-	31 - 109-ENG52	
						PURCHASE ORDER NO.
SHOP ORDER I	NO. M.R. NO.	DATE ORDE	RED VENDOR CODE			
7914 2 201	08068	2/1/66	14611	SHOW NPD NO. OF		NPD 8739-X
	Street		let)	WAREHOUS SCHENECT/ JNG INSTRUCTIONS (USE LETTERH	E BLDG. M-2 ADY, NEW YORK EAD ADDRESS:) RENDER INVOI ACCOUNTS PAYABLE	E
IP VIA			F.O.S.	TERMS	DO-E2 Certifi	
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	Bof. Estructi	on 3	T. Kiely	202	bl / L	G. Hobday/at
			IONS OF ATTACHED PURC	HASE SUPPLEMENT NO	AIC 365-1 F	UNDING: 1-31
					LINIT	NET NET

QUANTITY	UNIT	DELIVER TO:	(BUILDING)	(ROOM)	UNIT PRICE	DISCOUNT	NET TOTAL
		Provide the following instructions listed drawings, and documented by references	herein. The speci ests listed in said	fications, star instructions			
, 3	66. 0	Poison element, velore 1, Rev. J, es m dated 1/25/66.					
3	66. 0	Poison elements, vel Gr. 2, Nev. J, as m dated 1/25/66.					
8	ecs.	Report in accordance	e with Technical In	struction fl.			
3	ccs.	Detailed production stones and dates to			•		*
		Total Amount of Pur	chase Order				2,48P

THIS ORDER CONSISTS OF _____

PAGES.

GENERAL 🍪 ELECTRIC

RECEIVED

FEB 7 1966

IT. W. KISSINGER

PURCHASE ORDER

KNOLLS ATOMIC POWER LABORATORY

REBROBUCED AT 98XT-EXPENSE" 476 _ PURCHASE ORDER NO_ PAGES. PAGE. VENDOR Metals and Controls

THE FOLLOWING INSTRUCTIONS SHALL APPLY:

1. Technical Requirements

- 1.1. KAPL Drawing 7109F66, Rev. J.
- 1.2. Rechaicel Supplement #3, dated 1/25/66,

2. Administrative Requirements

- 2.1. Items 3 and 4 shall be sent to KAPL, Attention: T. Kiely, 202, E-1.
- In the event the requirements of the organ are modified, Seller agrees to submit with his proposal covering may changes to the order, including change orders, a detailed cost breakdown using Form KAP 1645A (1-65) or equivalent.
- 2.3. Seller shall motify KAPL forth-eight (48) hou, s prior to all welding and straightening operations so that they may be witnessed by KAPL personnel.

3. Delivery Requirements

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

- Items 1 and 2 on or before two (2) weeks after receipt of order.
- 3.2. Item 3 on or before three (3) weeks after receipt of order.
- 3.3. Item 4 on or before three (3) working days after receipt of order.

4. Terms and Conditions of Eurobase

Perchase Order Supplement, General Terms and Conditions of Purchase AEC 365-1 is hereby modified as follows:

- 4.1. Modification to AEC 365-1 dated 12/29/65.
- 4.2. Add Article 53 of AEC 365-1 entitled "Government Furnished Zircaloy Material", Rev. 10/27/64.
- 4.3. Under the provisions of Article 9 extitled "Government Property", General Meetric will furnish to the Seller the following items of Government Property for use in connection with and under the terms of the order.
 - 3 es. Zircaloy
 - 3 ca. Lircaloy
 - 400 ca. Zirceloy

464-C (5-65) REV.

PURCHASE ORDER

KNOLLS ATOMIC POWER LABORATORY

VENDOR

•

Metals and Controls

8739-I

PURCHASE ORDER NO.

AGE____OF____PAGES.

3

5.1. Your attention is directed to the fact that this order covers work classified as CONVINCETAL/RESTRETED DATA. Security requirements that apply to this order are contained in Article 17 of ARC 365-1. The information contained in the document attached entitled "Supplementary Security Provisions" identified as Attachment No. 2 is provided to assist you in meeting the aforesaid security requirements.

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

General Electric Company KNOLLS ATOMIC POWER LABORATORY Schenectady, New York

NPD8739

February 15, 1966

MEMO TO:

J.T. Kechane

Subject:

Contract AT(30-3)-529

References:

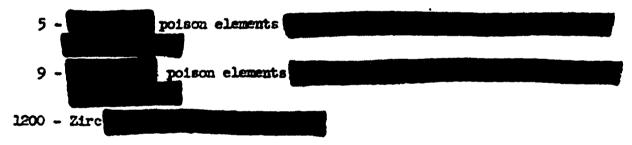
(1) NR Letter I-#14,928

(2) IR Letter Q-#301

(3) KAPL Purchase Order NPD-8739-Y (4) KAPL Nemo OF PATENTIAL

KAPL Nemo GH Wilbur to JT Keohane dated 2-1-66

Please authorize Metals and Controls to transfer the following material from the subject contract to Reference (3) Purchase Order:



This material is excess to the requirements of the subject contract by authority of Reference (1), and will be used on the C-68 development program authorized by Reference (2).

This memo supersedes Reference (4).

G.H. Wilbur

Procurement Engineering Production Cores

NUCLEAR CORE OFERATION

Room 277, Bldg. G-1; Ext. 7311

GHW: bab

RECEIVED

cc: C.C. Cramer AEC

D.W. Short AEC

TED 1 1 1966

bec: GE Halm A-1, 218

RG Hobday A4-16

TE Kiely E-1, 202

TW Kissinger G-2, 309 B Pecora C-2, 111

ਸ Winkler G-2, 309

J. W. KISSINGEK

KNOLLS ATOMIC POWER LABORATORY

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				. 4.9-						

__ PAGES.

GENERAL & ELECTRIC

Indicator adaptors, 10 indicators and holders, hydrogage,

and deflection fixture.

REPRODUCED AT GOV'T EXPENSE # 18

LEX 014-521 EA CODE 518

PURCHASE ORDER

KNOLLS ATOMIC POWER LABORATORY

P.O. BOX 1072

SCHENEC

\	<u></u>	OFERA	ED BY THE GENERAL ELE	CTRIC COMPANY UNDER	GOVERNMENT CONTRACT W-31 - 109-ENG52
	SHOP ORDER NO.	M.R. NO.	DATE ORDERED	VENDOR CODE	SHOW NPD NO. ON ALL PACKAG AND CORRESPONDENCE
TO					

SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

8739-I

REPRODUCED AT GOVT EXPENSE

rials and Costrols

TWX 518 - 556 - 2393 TELEPHONE 393 - 6611

SHIP TO: KNOLLS ATOMIC POWER LABORATORY

WAREHOUSE BLDG. M-2

SCHENECTADY, NEW YORK

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

FINANCE - ACCOUNTS PAYABLE
ON PREPAID SHIPMENTS F.O.B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL

F.O.8. DO-E2 Certified under oc cook DMS Reg. 1 ORDERED FOR QUESTED ON SITE DELIVERY DATE BLDG.

15	ORDER SUB.	IECT TO	GENERAL TE	ERMS AND C	ONDITIONS OF	ATTACHED P	URCHASE SUP	PLEMENT NO	PUI	NDING:	
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THIS ORDER CONSISTS OF

PAGES.

GENERAL (5)

Amendment No. 1

JE 3 OF 3 PAGES, VENDOR METCLE and Controls PURCHASE ORDER NO. 8739-Y

Add Destruction 3.4 as follows:

3.4. Item 5 upon completion of work.

Instruction 4.3.

Delete the Covernment-furnished material quantities 3 ea., 3 ea., and 400 ea., and substitute in lieu thereof 5 ea., 6 ea., and 850 ea. respectively.

Purchase Order Price Surery

Original Amount of Order

42,482.00

Increase by this Amendment No. 1

7,434.00

Revised Amount of Purchase Order

\$9,916.00

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



METALS & CONTROLS INC. 34 FOREST STREET - ATTLEBORO, MASS.

A CORPORATE DIVISION OF

TEXAS INSTRUMENTS

\$ 61017

KNOLLS ATOMIC POWER LABORATORY
 Warehouse Bldg. M-2
 Schenectady, N. Y.

Date ______ NPD-8739-Y

Date Shipped ______ Shipped Via ____ Kiely of KAPL

Ser. # 41-S, 42-S, 33-S, 45-S, 78, 99, 136, 137 (SN-28 obsolete material which was transferred to KAPL-345) Deflection Fixture Consisting of the Followin Parts: 10 Federal Indicators 10 Holding Rods 10 Sliding Swivels	
(SN-28 obsolete material which was transferred to KAPL-345) Deflection Fixture Consisting of the Followin Parts: 10 Federal Indicators 10 Holding Rods	
* Deflection Fixture Consisting of the Followin Parts: 10 Federal Indicators 10 Holding Rods	
Parts: 10 Federal Indicators 10 Holding Rods	
10 Holding Rods	
	基基基基基基基
1 Centerless Ground Rod .738Dis. 2 Holding Knees 2 Fixture Knees	
2 Rocking Blocks 1/4" thick 1 Cyclinder Adapter	
Not shipped - At MSC pending scrapping request.	
PACKING SLIP	
M.A. Vecoli	東軍軍軍軍軍軍
	2 Holding Knees 2 Fixture Knees 1 Shim 2 Rocking Blocks 1/4" thick 1 Cyclinder Adapter Not shipped - At MSC pending scrapping request. PACKING SLIP

NPD - 8723

014 - 521 ODE 518 TWX 518-556-2393 TELEPHONE 393-6611

KNOLLS ATOMIC POWER LABORATORY

PURCHASING

P.O. BOX 1072 SCI

SCHENECTADY, NEW YORK 123

PURCHASE ORDER NO SHOP UND !- NO DATE ORDEREL VENDOR CODE SHOW NPD NO. ON ALL PACKAGES 7378 7بـ1 ۾ 10رخ 03993 6/10/65 14511 AND CORRESPONDENCE Matele & Controls, Inc. 34 Forest Street SHIP TO: KNOLLS ATOMIC POWER LABORATORY Attleboro, Massachusetts WAREHOUSE BLDG . M-2 ATTR: Mr. J. White SCHENECTADY, NEW YORK NG INSTRUCTIONS (USE LETTERHEAD ADDRESS:) RENDER INVOICES IN DUPLICATE TO FINANCE - ACCOUNTS PAYABLE reinafter referred to as Seller) F.O.B Attleboro, DO-E2 Certified under Ret 30 Exclusive Truck DMS keg. 1 Mess. JED ON SIT DELIVERY DATE ORDERED FOR ALDG Reg. Instruction 3 R. A. Heride! R. C. Lisuee/ci 201 E-1 ORDER SUBJECT TO GENERAL TERMS AND CONDITIONS OF ATTACHED PURCHASE SUPPLEMENT NO. AEC 365 FUNDING:_ UNIT - Chranic DELIVER TO: DISCOUNT (MUILDING) (ROOM) Provide the following items in accordance with the instructions listed herein. The specifications, standords, drawings, and documents listed in said instructions are incorporated by reference and made a part hereour. Elements consisting of the following: \$5,373 325 Twelve (12) alloy fuel elements Four (4) during elements Pour (4) during elements وَ اللَّهِ وَالْ Complete set of process records to include but not be (Price includes in item prices thave! limited to: material certification, process sheets, furnace the me, radio wrate, etc. for leave to 2. c. i on

GENERAL & ELECTRIC

THIS ORDER CONSISTS OF

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KNOLLS ATOMIC POWER LABORATORY

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	OPERATED BY I	HE GENERAL ELE MINE COMMAN	Y UNDER GOVERNMENT CONTRAC	: W - 31 - 107-ENG			
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GEHERAL & ELECTRIC

THIS ORDER CONSISTE OF _____ PAGE

PAGES. VENDOR METALE & Centrals, Inc.

PURCHASE ORDER NO. 7378-D

2. Administrative Requirements

-. -C (11-61)REV.

- 2.1. Seller shall be fully responsible at his own expense for obtaining and maintaining in effect all necessary licenses and approvals (Ref. Article 52). In conjunction with Article 52, Seller shall complete and return two (2) copies of ATTACHMENT C entitled "Licence Certification" upon receipt of order.
- 2.2. In the event the requirements of this order are modified, Seller agrees to submit with his proposal nevering any changes to the order, including change orders, a decaded cost breakdown using Form KAP 1645A (10-64) Rev.

Se Reserve Requirements

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

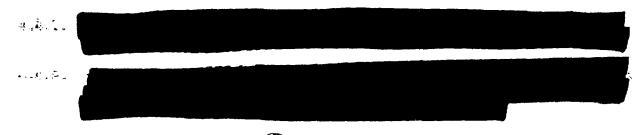
- 3.1. Item 5 as specified in Instruction 2.1.
- 3.2. Items 1, 3, 5, and 8 on or before three (3) weeks after receipt of order.
- 3.3. Items 2, 5, and 8 on or before three (3) weeks after completion of Item 1.
- 3.4. Item 7 concurrently with processing under SNR Contract AT (30-3)-529.
- 3.5. Item 4 concurrently with the production

in the smill been been and of Purchase

Shase Order to other ent; General Terms and Descritions of Purchase And the only modified as follows:

Modification to ABC 365 dated May 3, 1965.

- 4.2. Add Article 53 entitled GOVERNMENT-FIRMINESS ZIRDALOW MATERIAL dated 10-27-60.
- 4.9. Add Arthuris to controls that the second of the secon
- 54 entraies Habirication to (Alba All Medicines of Francis Control of State of State



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PURCHASE ORDER

PNOLLS ATOMIC POWER LABORATORY

TOES. VEHIDOR Bertier 5 to Continuity India purchase Order NO.

less and conditions of largerase

- (continued)

and it is med by KAPI to be in KAPI and the Government's best interests to act then additional material can be obtained from KAPL at Seller's expense. Such additional material shall be provided by KAPL under the provisions of the Government Property Article and Article 54 entitled MCDIFICATION TO TERMS ADDITIONS OF PURCHASE FOR GOVERNMENT-FURNISHED SPECIAL NUCLEAR MATERIALS and the purchase order price will be reduced by the cost of the material to the for the amount furnished. In the event it is determined by KAPL to be in its and the Government's best interests to supply such additional attrial when required by Seller, Seller shall be obligated to obtain any additional material at his expense and further to certify that the Seller acquired material meets all requirements of this order, or if no requirements are so stated in this order, the Seller shall certify that Seller acquired material is identical in all respects to the first supplied KAPL material.

Stand Instructions

MPL will provide details of shipping instructions prior to each shipment.

which is the state of the state

Like Steme Fossy Laboratory

O. Box 1872
Schenectady, New York 1999)

PTFG Mr. J. J. Jackes, Me. 10: NCC/NCMU

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KNOLLS ATOMIC POWER LABORATORY

PAGES.	VENDOR_	Metals &	Controls,	Inc.	PURCHASE ORDER NO.	7378-D

REPRODUCED AT GOV'T EXPENSE # 18

5. Shipping Instructions (continued)

5.4. Seller's shipping containers identified as "returnable" will be returned to Seller "Freight Collect."

6. Security Requirements

Your attention is directed to the fact that this order covers work classified at CONFIDENTIAL/RESTRICTED DATA. Security requirements that apply to this order are contained in Article 17 of AEC 365. The information contained in the document at the acceptance entitled "Supplementary Security Provisions" identified as Attachment No. 2 is provided to assist you in meeting the aforesaid security requirements.

the provisions of DMS Regulation No. 1 and of all other applicable regulations of DMS Regulation No. 1 and of all other applicable regulations of DMS Regulation No. 1 and of all other applicable regulations of BDSA in obtaining controlled materials and other products and materials to fill this order.

KNOLLS ATOMIC POWER LABORATORY SCHENECTADY, NEW YORK

PROCUREMENT APPROVAL - SOURCE AND SPECIAL NUCLEAR (SS) MATERIAL

TO: MANAGER - PURCHASING KAPL

RQ /IN	QUIRY #	INSTRUCT	ION-#	INFORMATION #	·
PROJECT COMPONENT _	CTAPD		REQUESTOR	R.A. Stargiej	
SS ACTION	. Klament	Pabrication			
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PURCHASING - ORIGINAL - 1 SNR - 1 NCMC - 1

KAP 1518 (10-64) REV.

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[NPP 7378

J. . HORT, SIRSTOR WATSTIALS DIVIDIN, SMR

2).

JUNE 10, 1965

MARINE, MICHELLAND CONTROLS, INC., ATTEMPORO, MASSACHUSETTS

41

CUBE EST: CORT WOT AT (30-3)-52)

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TOATTHOU YSE UT DRICKCOM RUGHU WARRENG THE FORT YTLLAND CHA YTTHANG

APPROVED PROCESSES AND CHICATIONS.

MS Darpenter - KAPL
RS Darpenter - KAPL
RA Stergie) - KAPL
JJ Chomes - KAPL
JJ Chomes - AAD
JT Kophane - AEC

RECEIVED

JUN 11 1965

J. COOMES

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NCO MATERIAL CONTROL

SHIPPING REPORT

KNOLLS ATOMIC POWER LABORATORY

WAREHOUSING

P.O. BOX 1072

SCHENECTADY, N.Y.

REPRODUCED AT GOVT EXI ATED BY THE GENERAL ELECTRIC COMPANY UNDER GOVERNMENT CONTRACT W-31-109-ENG-52 SO 7910R167 REA-X-46-76-41 Shipper's C 26651 KNOLLS ATOMIC POWER LABORATORY

consigned to . Metals & Controls Inc.

. M&C Muclear Products Group

DESTINATION . Building "N"

. Perry Ave Ext.

ROUTE. Attleboro, Mass.

DATE 6/15/65

NPD NO .

CUSTOMER'S NO .

DELIVERY	CARRIER. Att: MS Holburn/J. Windardnitials.		AR NO. •		
NO. PACKAGES	KIND OF PACKAGES, DESCRIPTION OF ARTICLES, SPECIAL MARKS, AND EXCEPTIONS	★ WEIGHT (Subject to Correction)	CLASS or RATE	CHECK COLUMN	Subject to Section 7 of Conditions of applicable bill of lading, if this shipment is to be delivered to the consigner
Drin	Radioactive Material	108#			without recourse on the consignor, the consignor shall sign the following state- ment: The carrier shall not make delivery
	Boff Permit #1518 BA #196 (Fissile Enterial)				of this shipment without payment of freight and all other lawful charges.
	Protective Signature Service Req. Class D Poison Label (Red GP I or II)				(Signature of consignor.) If charges are to be prepaid, write or stamp here, "To be Prepaid." PREFAID
					Received \$
					Agent or Cashier,
† 'ip	Charges are for the Acct of the USARC ment moves between two ports by a carrier by water, the law requires that the bill of lading shall are the rate is dependent on value, shippers are required to state specifically in writing the agor of declared value of the property is hereby specifically stated by the shipper to be	state whether it is "carri	er's or shippe the property	cr's weight." y.	(The signature here acknowledges only the amount prepaid.) Charges advanced:
	per			į	\$

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REASON FOR SHIPMENT GFM in accordance with Purchase Ord	ler
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ANCE BY RECIPIENT OF MATERIAL (NAME, TITLE, DIVISION)	APPROVAL BY AUTHORIZED WAREHOUSE REPRESENTATIVE
	FOREMAN WAREHOUSING

NOTE: ALL DIFFERENCES IN QUANTITY, DESCRIPTION, OR CONCEALED DAMAGE NOT SHOWN ON THIS FORM SHOULD BE REPORTED IMMEDIATELY

CLAIM NO.

KNOLLS ATOMIC POWER LABORATORY

P. O. BOX 2072 SCHENECTADY, NEW YORK 12301 AREA CODE 518

AREA CODE 518
TELEPHONE 393-6611
TWX 518-556-2393
TELEX 014-521

PAGE 1 OF 2

Dale:

June 24, 1965

70:

Metals & Controls Nuclear, Inc.

P. O. Box #898

Attleboro Massachusetts

Altentions

Mr. J. Parker/J. White

Subject: Order No. NPD 7378
Instruction to Vendor No.

Reference: IV #3

The cost of \$304.00 is considered by KAPL to be fair and reasonable for performing the operations listed below. KAPL's estimate considered the time for the Zygloing operation to be manufacturing rather than quality control; and so the hours for manufacturing and quality control should be reversed to conform with MEC's working procedure.

Please furnish the cost for the following proposed changes to the subject contract:

- 1. Delete the following operations from the processing of fuel elements
 - a) Degrease
 - b) Ultrasonic clean
 - c) Vacuum anneal
 - d) Zyglo
- 2. Add the following operations to the processing of the elements given in Item 1:
 - a) Measure and record everage element gage.
 - b) Shear a 1" end crop from the fuel elements and a 5" end crop from the dummy elements.

c)

d)

e) Zyglo

Cognizant Requester:_

Metzger

Zyglo

3. Add the following operations to the processing of fuel a) b) Drill hanger holes. Vapor blast. Zyglo. Add the following operations to the processing of fuel a) Measure and record game. d)
e)
f)
g)
h)
i) Shear 1" end crop from each. Drill hanger holes.

464 - 8 (10-63) REV.

PURCHASE ORDER

LEX 014 - 521 TWX 518 EA CODE 518 TELEPHOI

TWX 518-556-2393 TELEPHONE 393-6611

KNOLLS ATOMIC POWER LABORATORY

PURCHASING

P.O. BOX 1072 SCH OPERATED BY THE GENERAL ELECTRIC COMPANY UNDER GOVERNMENT CONTRACT W-31-109-ENG.-52

SCHENECTADY, NEW YORK 12301

PURCHASE ORDER NO. SHOP ORDER NO. M.R. NO. DATE ORDERED VENDOR CODE SHOW NPD NO. ON ALL PACKAGES **7910R16**7 6-18-65 14611 IV 2 AND CORRESPONDENCE 7378**-D** 10 Amendment No. 1 Metals & Controls, Inc. SHIP TO: KNOLLS ATOMIC POWER LABORATOR 34 Forest Street WAREHOUSE BLDG. M-2 Attleboro, Massachusetts SCHENECTADY, NEW YORK BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS:) RENDER INVOICES IN DUPLICATE TO: FINANCE - ACCOUNTS PAYABLE Attention: Mr. J. White ON PREPAID SHIPMENTS F.O.B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL oc cope HIP VIA F. O. 8. DO-E2 Certified under DMS Reg. 1 ORDERED FOR QUESTED ON SITE DELIVERY DATE BIDG BUTYFR R. C. Risbee/p R. A. Siergiej 201 E-l IIS ORDER SUBJECT TO GENERAL TERMS AND CONDITIONS OF ATTACHED PURCHASE SUPPLEMENT NO. AEC-365 __ FUNDING: Wall UNIT NET TOTAL DISCOUNT QUANTITY UNIT DELIVER TO: (BUILDING) (ROOM) Purchase Order NPD 7378-D issued under date of 6-10-65 is hereby amended for the purpose of modifying the requirements of Item 1 increasing the order price by 1104 and adding Item 9 increasing the order price by \$103 in consideration thereof. Delete Item 1 in its entirety and substitute in lieu thereof the following: Elements consisting of the following: 20 \$ 5,977.00 pcs alloy fuel elements dumny elements dummy elements." Add Item 9 as follows: 103.00 as the material used in Phase I of the Technical Supplement The total order price amount of \$16,547 is hereby increased by \$207 resulting in a total revised order 116.754.00 rrice amount of THIS ORDER CONSISTS OF $_$ _ PAGES. GENERAL ELECTRIC

RECEIVED

JUN 3 4 1965

J. W. KISSINGER

KNOLLS ATOMIC POWER LABORATORY

AGE 2 OF 2 PAGES. VENDOR Metals & Controls, Inc. Purchase Order NO. 7378-D

Amendment No. 1

Instruction 1 is hereby modified as follows:

Delete Instruction 1.2 in its entirety and substitute in lieu thereof the following:

"1.2. Attachment #1 entitled 'Technical Supplement, Rev. 3' dated June 9, 1965."

Instruction 3 is hereby modified as follows:

Add Instruction 3.6 as follows:

"3.6. Item 9 - upon receipt of Amendment."

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

Purchase Order Price Summary

Original Amount of Order	\$16,547.00
Increase by this Amendment No. 1	207.00

Revised Amount of Purchase Order-----\$16,754.00



RECEIVE

30 JUN 1965

WM. J. GALLAGHER

X

G. F. MORGAN Original Signed By G. F. MORGAN

1:00

D. W. SHORT, DIRECTOR MATERIALS DIVISION, SHR

JUHE 30, 1965

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

REURTT OF 6/29/65 REQUESTING APPROVAL TO SHIP TO KAPL FABRICATED UNDER MPD-7378D CONTAINING 544 GRAMS U-235



AUTHORIZATION HEREBY GRANTED TO MAKE SHIPMENT IN ACCOMDANCE WITH COMDITIONS STATED IN YOUR TELETYPE AND SEPARATE TWE SHIPPING DESTRUCTIONS SENT YOU THIS DATE BY W. J. GALLAGHER, KAPL.

cc: J. J. Coomes, KAFL - Mailed

J. H. Barry, SMR

P. F. Schuster, SMR

RECEIVED JUN 30 1965

J. J. COOMES

File:

NPD-7378D

Morgan: 1r

END/SEJ

PLS ACK MSG

RCD OK DM

TU AND BYE

٧9

M&C NUC ATTL

NR 70

FM KNOLLS ATOMIC POWER LABORATORY SCHENECTADY NY W J GALLAGHER
65 JUN 30/1750Z

TO METALS AND CONTROLS INC NUCLEAR PRODUCTS GORUP ATTLEBORO MASS ATTN W S HOLBURN

REGARDING YOUR TWX DTD 6/29/65 CONCERNING TENTATIVE SHIPMENT OT KAPL

OF ELEMENTS CONTAINING 544 GMS U-235 FROM CONTRACT NPD 7378
YOUR PROPOSED METHOD OF PACKAGING IN ONE BE 1592 CONTAINER IS

SATISFACTORY. EXCLUSIVE USE VEHICLE SHOULD BE SEALED AT M&C AND DRIVER

INSTRUCTED TO USE ONLY MAIN AUTHORIZED HIGHWAYS. FOUR NON-FUEL ELEMENTS

MAY BE SHIPPED IN SAME TRUCK. SNR/AEC WILL SEND YOU A SEPARATE

ACCOUNTABILITY RELEASE FOR THIS SHIPMENT.

	 1-8 (10-63) f	 REV.	<u>.</u> .	-	PURCHASE OR	!DER	-		.	SE # 18
ر (:	X 014 - 521 CODE 518	TWX	518 - 556 - 2393 PHONE 393 - 6611		S ATOMIC POV	VER LABOR	,		URCHASIN	
					P.O. BOX 10				MY, NEW Y	<u></u>
		 -	OFE.	ATED BY THE GENERAL E	ELECTRIC COMPANY UNDER GR	JAKAMENI COMINA	CI W-31-109-ENG.		PURCHASE C	ORDER NO.
-	SHOP O	RDER NO.	IV 4	6/29/65	VENDOR CODE). ON ALL PACK RRESPONDENCE	AGES	NPD -	7378- 3 0 ₩
(A)	34 1 Att. AST. Incesses	Porest Leboro Is Mr New Y		etts as Seller) F.O.	ON FEE	SCHEN G INSTRUCTIONS (USE LE FINAN PAID SHIPMENTS F.O.B. TERMS	IOUSE BLDG. M IECTADY, NEW ITTERHEAD ADDRESS:) RE ICE - ACCOUNTS SHIPPING POINT ATTAC DO -E2 BLDG.	IC POV-2 YORK NOTE INVOICES PAYABLE H OFFINAL TR CERTIFIE DMS Reg	ANSPORTATION BI	SORATORY
HIS TEM	ORDER SUB	JECT TO	GENERAL TERMS /	AND CONDITIONS	(SUILDING)		NO.48C 365	UNIT PRICE	DISCOUNT	NET TOTAL
	20	pcs	as amended purpose of l increase thereof. Delete Its thereof ti	to date in recitiving sing the ord mm 1 in its me following	378-D issued up the technical ler price by \$3 entirety and a si of the following fuel elements	ader date o er amended requiremen (0) in cons substitute	f 6/10/65 for the ts of Ite ideration	ì		\$6,281. 0

THIS ORDER CONSISTS OF ______ PAGES



The total order price amount of \$16,754.00 is hereby increased by \$304.00, resulting in a total revised

Instruction 1 is hereby modified as follows:

order price amount of . .

Add Instruction 1.3 as follows:

RECEIVED

\$17,058.

JUL 22 1965

464-C (10/63) REV.

PAGE

PURCHASE ORDER

KNOLLS ATOMIC POWER LABORATORY

OF 2 PAGES. VENDOR Metals and Controls, Inc. Purchase Order No. 2 2

1.3. Attachment #3 entitled Amendment No. 1 to Technical Supplement, Rev. 3 dated June 25, 1965.

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	\$16,547.00
Increase by Previous Amendments	207.00
Increase by this Amendment No. 2	304.00
Revised Amount of Purchase Order	\$17,058.00

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	on No.:	Weight	SS	584			Short to W.	Distribution	SNROO SNROO SNROO	SNROO - Station PNRO PNRO	MAK. KAB
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ns Office BETWEEN PROJECT	KAB	Number	To	3 SNR-40700-00-6					7/8/65	112/65	
Commission (eactors Operation FR SS MATERIALS)	Station Symbol:	Project	From	SNR-40702-01-13			9 to Contract NPD-7378-D ot yet been transferred:		Dat	Date	
U.S. Atomic Energy Commission Schenectady Naval Reactors Operations Office REQUEST FOR AUTHORIZATION TO TRANSFER SS MATERIALS BETWEEN PROJECTS	Stat	Material Description	Specify Form, Enrichment, if Alloy, etc. specify constituents, etc. and weight units.			•	(include Contract Numbers) sfer from Contract AT(30-3)52 ing material authorized has n		Wallace S. Holburn Onginat signed by Wallace S. Holburn	B. Short	
SCH-84 (4-61)		Mat	Specify Form, En-	12			Reason for Transfer: To document trans 6/10/65. Remain		Submitted By:	Approved By:	

464-8 (10-63) REV. 1-521 TWX 518-556-2393 KN DE 518 TELEPHONE 393-6611				PURCHASE C	ORDER		-		
				KNOLLS ATOMIC POWER LABORATORY P.O. BOX 1072 PURCHASING SCHENECTADY, NEW YORK 1236					
		OFERATE	D BY THE GENERAL EL	ECTRIC COMPANY UNDER	GOVERNMENT CONTR	ACT W - 31 - 109-ENG	, - 5 2		
								PURCHASE O	RDER NO.
_	ADER NO.	M.R. NO.	DATE ORDERED	VENDOR CODE	SHOW NPD N	O. ON ALL PAC	KAGES	NPD - 73	376-D
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DUESTED ON SITE	DELLVERY	DATE	ORDER	ED FOR	L	SLDG.	DMS Reg	BLIYER	
				. A. Siercie	1 201	E-1	R. 1	C. Bisbee	hare
M QUANTITY	UNIT	DELIVER TO:		(BUILDING		HOOM)	PRICE	DISCOUNT	NET TOTAL
		Purchase Or as amended the purpose in a net de	der MPD 73 to date is of modify: crease in 1	78-D issued thereby furthing Item 2 reprice of \$784 in their ereof the following the f	mder date o er amended equirements :.00.	of 6/10/65 for resulting			2,446.0
				furnished re as required		53 and			807.0

1

THIS OPDER CONSISTS OF ______ PAGES.

Amendment No. 3

GENERAL (ELECTRIC

The total order price amount \$17,058.00 is hereby decreased by \$784 resulting in a total revised order

price of

RECEIVED

\$16,274.0

AUG 25 1965

464 -C (10/63) REV.

PURCHASE ORDER KNOLLS ATOMIC POWER LABORATORY

								₽ E
AGE _	2	OF2	PAGES. V	ENDOR <u>Metals</u>	and Controls	Nuclear	PURCHASE ORDER NO. 7378-D	
Add	inst	ruction 1.4.	as follows				Amendment No. 3	HEPRODI.
	- 1.	Add - shared	#), antitio	Tookedan F	Sumlement W	PD 7378_D	Phose TT dated	

1.4. Attachment #4 entitled, Technical Supplement NPD 7378-D Phase II dated July 22, 1965 for Item 2.

Delete instructions 4.4.1. in its entirety and substitute in lieu thereof the following:

4.4.1. 1386 grams of U 235 chop stock certified to the same ordering data as material furnished under SNR contract AT (30-3) - 529.

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	\$16,547.00
Increase by Previous Amendments	511.00
rease by this Amendment No. 3	(784.00)
vised Amount of Purchase Order	\$16,274.00

THIS ORDER CONSISTS OF ______ PAGES.

Amendment #4 GENERAL (26) ELECTRIC

7378-D Phase II for Amendment #4 dated 9/27/65.

The total order price amount of \$16,274.00 is hereby increased by \$163.00 resulting in a total revised

1.5. Attachment #5 entitled "Technical Supplement

order price amount of

Add Instruction 1.5 as follows:

RECEIVED

\$4,465

\$16,437.0

007 d 1965

J. W. KISSINGER

KNOLLS ATOMIC POWER LABORATORY

E 2 OF 2 PAGES. VEN	DOR Metals & Controls Nuclear	PURCHASE ORDER NO	o. <u>737</u> 8
		Amendment	# 1;
All other terms and conditions in force and effect except as s Purchase Order Price Summary		d to date are to	remain
Original Amount of Order	\$16,547.00		
Decrease by Previous Amendment	(273.00)		
Increase by this Amendment No.	163.00		
Revised Amount of Purchase Order	r \$16,437.00		

KNOLLS ATOMIC POWER LABORATORY







DIAL COMM-

cories: RC Bisbee KE Carpenter

GA Hume File

Lb.

SUBJECT

REQUEST FOR U-235 CHOPSTOCK AND ZIRCALOY



June 4, 1965

Mr. R. P. Doody/T. Kissinger Building G-2, Room 309

KAPL Site

conforming to the chemical Please ship 81# Zircaloy requirements of MIL-Z-19859B and 1.98 kgs. of U-235 chopstock to Metals // and Controls under NPD (to be furnished by R. C. Bisbee)/MR 03993.

This material is required for the fabrication of replace those being transferred from Contract AT(30-3)-529 for use on this order.

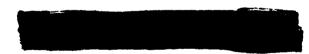
R. A. Siergiej

Core Fuel & Poison Development NUCLEAR CORE OPERATION

RaS:st

ASSIFIER 6/4/65

5.0.







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PURCHASE ORDER

KNOLLS ATOMIC POWER LABORATORY

		~~~		P.O. BOX					
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SHOP ORDER NO. M.R. NO. DATE ORDE			SHOW NPD NO. C		NPD	NPD 7378-3			
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DER SUB.	JECT TO	GENERAL TERMS	ND CONDIT	ONS OF ATTACHED PURC	HASE SUPPLEMENT NO	AEC 36	51	UNDING:_	N-31
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THIS ORDER CONSISTS OF ___

_ PAGES.

GENERAL ( ELECTRIC

## KNOLLS ATOMIC POWER LABORATORY

AUE 2 OF 2 PAGES. VENDOR MOTALS & CONTROLS MOCIONED LINE PURCHASE ORDER NO 7378-D

Amendment No. 5

Delete Instruction 4.4.1. in its entirety and substitute in lieu thereof the following:

4.4.1. 686 grees of V-235 chop stock certified to the same ordering data as material furnished under SMR Contract AT (30-3) -529.

## Porchase Order Price Summery

Original Amount of Order \$16,547.00

Decreese by Previous Amendments (110.00)

Decrease by this Assendment No. 5 1,752.00

Revised Amoust of Purchase Order . . . \$14,685.00

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

REPRODUCED AT GOVT EXPENSE #

M. Love joy

**2** ...

March 16, 1966

Mrs. M. Furlong Building Al Room 20

Reference: NPD 7378 - NRC, Inc.

Per our telecon today the line items of Amendment #5 for losses, reprocessing of furnished material, and utilization schedules (\$423) will not be paid at this time but will be held pending scrap recovery by the vendor. When recovery is completed the money withheld will be factored into the billing for losses. The matter probably will not be completely resolved for at least two months.

T. W. Kissinger Nuclear Core Materials Control NUCLEAR CORE OPERATION

TK:lap

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	,	28		U235	19				Sinskich)	
		ion No.:	Weight	SS	20				Distribution  1. SNROO  2. SNROO - KZA (Sinckich)  3. SNROO  4. SNROO - Station  5. PNRO	PNRO MAK KAB
	LS	Requisition No.:		Net	1				Distr 1. Si 2. Si 3. Si 4. Si 5. Pi	
-	ns Office BETWEEN PROJECT	KAB	Number	To	K-40700-00-1 NPD-7378-D				999	
	Energy Commission Vaval Reactors Operations Office TRANSFER SS MATERIALS BETWEEN PROJECTS	Station Symbol:	Project	From	K-40702-01-13 AT(30-3)-529			IN FABRICATION	S. HOLBURN 4/15/66 Date	Date
	U.S. Atomic Energy Commission Schenectady Naval Reactors Operations Office REQUEST FOR AUTHORIZATION TO TRANSFER SS MATERIALS BETWEEN P	Sta	Material Description	ecify Form, Enrichment, if Alloy, etc. specify constituents, etc, and weight units.			for Transfer: (include Contract Numbers)	TO DOCUMENT TRANSFER OF LOSSES INCURRED IN FABI	ed By: Wallace S. Holburn/ Drighat signed by WALLACE S. HOLBURN  1 By:	
78-HJS	(4-61)			Specify Form,			 Reason f	· .	Submitted Approved E	



# METALS & CONTROLS INC.

# TEXAS INSTRUMENTS

INCORPORATED

FILE: KAPL-331, 347, 308, 305

22 April 1966

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

ATTENTION: Mr. R. C. Bisbee

SUBJECT: Material Utilization Schedule

Dear Sir:

In accordance with order requirements enclosed are 2 copies of the final Material Utilization Schedule covering the uranium material received for use under Purchase Orders NPD-7378-D, NPD 9117-D, NPD 6820, and NPD 6507.

Since this covers complete utilization through reclamation and return to the commission facility, final invoices covering the amounts being withheld less our loss liability will be transmitted under separate cover.

Yours very truly,

il 'illinate

J. WHITE

Contract Administrator

1c

Enc1: 2

cc: D. Short SNRO (Attachments)

J. Norris M&C

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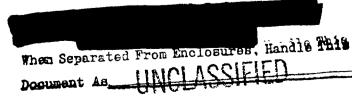
RECEIVED

APR 25 1966

R. C. BISBEE

ni î. 2 a 1968

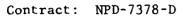
J. W. KISSINGER



### MATERIAL UTILIZATION SCHEDULE

KAPL-331

N-00426



Project: K-40700-00-1



April 21, 1966

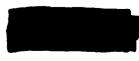
Receipts: Transferred from AT(30-3)529 KZA-KAB-34 Total Receipts	SS 604 2,081 2,685	U-235 563 1,937 2,500	
Removals:			
KAB-KZA-63	584	544	
Transferred to AT(30-3)529	737	686	
Total Removals	1,321	1,230	
Balance to Account For	1,364	1,270	
Inventory:			
Uranium Chopped Stock	1,344	1,251	
Losses:	20	19	

SUMMARY								
Receipts: Total	2,685	2,500	\$\frac{Value}{30,077.29}					
Removals: Total	1,321	1,230	14,797.80					
Inventory:	1,344	1,251	15,050.33					
Losses:	20	19	\$ 229.16					

Wallace S. Holburn

SS Materials Representative





5:00

RECEIVED

MAY 3 1966

J. K. GINGRICH

D. W. SHORT, DIRECTOR FRANCELLS DIVISION, SMR

X

MAY 2, 1986

MR. J. WHITE, METALS AND CONTROLS, INCORPORATED, ATTLEBORO, MASSACHUSETTS COPY TO: W. S. EOLBURN, MAC

REURTI OF 4/29/60 RE 10 NG. VIRGIN UNANTUM FOR AT(30-3)-929. W. MOLBURN MAS BEEN ADVISED TO TRANSFER 996 GRAMS U-235 FROM NPD-7378 AND 355 GRAMS U-235 FROM NPD-6507 TO AT(30-3)-529. KAPL WILL SHIF 5/80 GRAMS U-235 AND BAPL WILL SHIF 1750 GRAMS U-235 FOR A TOTAL OF 10053 GRAMS U-235. ASSIGN 35 GRAMS U-235 TO NPD-9117 AND 48 GRAMS U-235 TO ALTERATION 7A, AT(30-3)-529, BALANCE OF MATERIAL (10000 GRAMS U-235) IS BEING SUPPLIED UNDER PARAGRAPH 365 OF THE CONTRACT.

CC: J.K. Gingrich, KAPL - Mailed

P.L. Bobe, SNR

J. T. Keomane, SNR

S. Jaurmen, SIR

J. Powjedus, MAPL - Mulled

### KNOLLS ATOMIC POWER LABORATORY

P. O. BOX 1072
SCHENECTADY, NEW YORK 12301
AREA CODE 518
TELEPHONE 393-6611
TWX 518-536-2393
TELEK 614-527

AGE___1_OF__1

Date: MBY 10, 1966

Metals & Controls Inc.
34 Forest Street
Attleboro, Massachusetts

Attention: Mr. J. White

Subject: Order No. NPD 7378-D Information to Vendor No. 11

Reference: Utilization Schedule dated 4/21/66

The material shown as "Inventory" - 1251 gms. U-235 uranium metal - will be disposed of as follows:

- 1) Transfer to NPD 9117-D, in accordance with Para. 7.2, 35 gms. U-235.
- 2) Transfer to Contract AT(30-3)-529, in accordance with Alteration No. 7A, 48 gms. U-235.
- 3) Transfer to Contract AT(30-3)-529, 1168 gms. U-235 in accordance with Para. 38b of the contract.

0

RC Bisbee (5)

GR Bosley

JS Erickson

HA Loucks

RJ Metzger

HW Peters

DW Short Due 5/11/66

Cognizant Requester: Mussings

NPD 7278

X

D. W. SHORT, DIRECTOR MATERIALS DIVISION, SER

8:25. --

MAY 12, 1966

MR. V. S. HOLBURN, METALS AND CONTROLS, INCORPORATED, ATTLEBORO, MASSACHUSETTE

REFERENCE THE OF 5/2/65 FROM SHORT TO HOLBURN.

U-233 IS BEING SUPPLIED TO AT(30-3)-529 FER THIS PEVISED SCHEDULE:

1251 CRAMS U-235 TRANSFER FROM MPD-7378 AND 355 GRAMS U-235 TRANSFER

FROM MPD-6507. BAPI HAS SHIFPED 1750 GRAMS U-235 AND MAPE WILL SHIP

STREE CRAME U-239. WILL IN 10083 GRAND U-230. ASSIGNMENT AND CONDITIONS

PERMIN AS STATED IN REFERENCED TWA.

CC: J. Mitte, MaC - Mailed

.. h. Cimprich, KATL - Mailed - - -

J. Powledge, WAPL - Mailed

F. E. Bobe, SUR

J. T. Rechaus, SMR

o. iauiman, SiR

File: AT(3GB)-529



## UNITED STATES ATOMIC ENERGY COMMISSION SCHENECTADY, NEW YORK 12301

ADDRESS REPLY TO:
THE MANAGER
U.S. ATOMIC EMERGY COMMISSION
P.O. BOX 1003
SCHEMECTADY, NEW YORK 12301
AND REFER TO:

MAT:GFM

May 23, 1966

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

Dear Sir:

Beference is made to your letter of April 28, 1966; Symbol: MC-446, wherein you requested verification of the Vendor's Uranium Utilization Schedule for MFD-6820.

Reference is made to your letter of May 10, 1966; Bymbol: MC-449, wherein you requested verification of the Vendor's Uranium Utilisation Schedule for MPD-7378.

Reference is made to your letter of May 17, 1966; Symbol:MC-450, wherein you requested verification of the Vendor's Uranium Utilization Schedule for MPD-7389.

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

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

Very truly yours, Unginal Signed By C. E. MORGAN

D. W. Short, Director Naterials Division

cc: J. K. Gingrich R. D. Myklebust



R.C. Bisbee

May 27, 1966

Completion of Order MPD #378

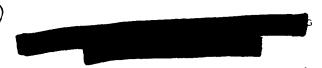
Mr. G. R. Bosley Boom 3th Building Al

MPD 7378 has been completed by MBC Inc. and approval to close out the order has been received from AEC/SER.

Please arrange for KAPL to be reimbursed for 19 gms. U-235 in addition to degradation of material returned to the AEC in accordance with the MEC utilization schedule attached. The material shown as "Inventory" (1251 gms. U-235) was disposed of according to instructions in TWX, D.W. Short (SNR) to J. White (MEC) dated 5/2/66; and KAPL now considers it as a final schedule.

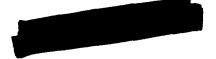
T. W. Kissinger Nuclear Core Mat'ls Control NUCLEAR CORE OPERATION

TWK: Lap Attachment



Then Separated From Enclosures, Handle This

Document As unclassified



MAY 31, 1966

METALS & CONTROLS, INC. 34 FOREST STREET ATTLEBORO, MASSACHUSETTS

ATTENTION: MR. J. WHITE

GENTLEMEN:

ENCLOSED ARE KNOLLS ATOMIC POWER LABORATORY INVOICES 207-1-9338 AND 207-1-9339 WHICH AGGREGATE \$1,053.11. THESE INVOICES PERTAIN TO SOURCE AND SPECIAL NUCLEAR MATERIAL LOSSES ON KAPL PURCHASE ORDERS NPD 6820 AND NPD 7378, RESPECTIVELY. PRICING ON THESE INVOICES IS BASED ON VOLUME 27 OF THE FEDERAL REGISTER WHICH WAS EFFECTIVE JULY 1, 1962.

IN CALCULATING THE AMOUNT OF SS MATERIAL LOSSES ON PURCHASE ORDER NPD 6820 (INVOICE 207-1-9338), THE PERCENT ENRICHMENT OF THE RETURN SHIPMENT KAB-KZA-48 WAS GREATER (93.191%) THAN THE PERCENT ENRICHMENT OF THE MATERIAL FURNISHED (93.153%). SINCE OUR MATERIALSSACCOUNTABILITY PERSONNEL HAVE INDICATED THAT IT IS NOT POSSIBLE FOR SS MATERIAL TO INCREASE IN ENRICHMENT DURING PROCESSING, WE HAVE ADJUSTED THE PERCENT TO AGREE WITH THAT OF THE MATERIAL FURNISHED.

PLEASE FORWARD OUR INVOICES TO YOUR ACCOUNTS PAYABLE PERSONNEL FOR PAYMENT. ANYTHING YOU CAN DO TO EXPEDITE PAYMENT WOULD BE APPRECIATED.

VERY TRULY YOURS.

G. R. BOSLEY, SUPERVISOR GENERAL ACCOUNTS

MJL:ESG

ENCLOSURES

BCC: LF BURKE/RC BISBEE

JK GINGRICH/T. KISSINGER

KNOLLS A. MIC POWER LABORATORY

## GENERAL

COMPANY

REFER TO OUR INVOICE NO.

207 - 1-9338

INVOICE DATE N.Y 31, 1966

K.R. NO.

DATE

USTOMER'S ORDER NO.

SOLD TO HET: LE & CONTROLS, INC. 34 POREST STREET

TTLEBORG, M:854CHUSETTS

SHIPPED TO

Make remittance payable to and mail to: GENERAL ELECTRIC COMPANY ENOLLS ATOMIC POWER LABORATORY P.O. BOX 1072 SCHENECTADY, N.Y.

4....

TTENTION: 40. J. LANTE

### TERMS NET CASH UPON PRESENTATION OF INVOICE

ITEM NUMBERS AND QUANTITY			DESCRIPTION	<del></del>	UNIT PRICE	AMOUNT		
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	\$97:4915M							
			FEDERAL REGISTER	1LOTOP1C				
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TUBNS								
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F-X-FX -SECCE	92. <b>50\$</b>	119 115)	11 105.45	<u>664</u> 1100	15 82.31			
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	S	Requisition No.:		Net	234	38	272		Distri 1. Sh		6. P. M.
ons Office	10 IRANSFER SS MATERIALS BETWEEN PROJECTS	KAB	Number	To	K-40702-01-13 AT(303)529	K-40700-00-1 (NPD-9117D)		99	99/9/9	3 1966	,
Energy Commission Naval Reactors Operation	ER SS MATERIALS	Station Symbol:	Project	From	K-40700-00-1 (NPD 7378D)	K-40700-00-1 (NPD-7378D)	·	11 DATED MAY 10, 1966		Date JUN 13	Date
(4-61)  Schenectady Naval Reactors Operations Office		238	Material Description	Specify Form, Enrichment, if Alloy, etc. specify constituents, etc, and weight units.	Enriched Uranium over 90%	Enriched Uranium over 90%		Reason for Transfer: (include Contract Numbers) REFERENCE INFORMATION TO VENTOR NO. 11 DA	Submitted By: Wallace S. Holburn/ Descend Siche BY WALLACE S. HOLEUPN	Original Signed By Approved By: G. F. MORGAN	

### KNOLLS ATOMIC POWER LABORATORY

14-521 TWX 518-556-2393 DE 518 TELEPHONE 393-6611				KNOLLS	ATOMIC POW		ORY	PURCHASING SCHENECTADY, NEW YORK 12301			
			OPERATI	ED BY THE GENERAL EL	P.O. BOX 107		- 109-ENG	<u>.</u>	i, New i	OKK 12301	
									URCHASE (	ORDER NO.	
	SHOP OR		M,R, NO.	DATE ORDERED	VENDOR CODE	SHOW N <b>P</b> D NO. ON	ALL BAC	PAGES A	NPD :		
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5 <u>۸</u> ۵	4 For Atlei toerd	nest S vord, biom:	ntrole, Inc. trest Massachusett Mr. J. Whit r referred t	or Ge Go Ag Selle	BILLING I	IP.TO: KNOLLS  WAREHOUSE  SCHENECTAL  NSTRUCTIONS (USE LETTERHEAD  FINANCE - AD  SHIPMENTS F.O.B. SHIPPING  TERMS	BLDG. A DY, NEW ADDRESS:) CCOUNT POINT ATTA	A-2 / YORK BENDER INVOICES B 'S PAYABLE	N DUPLICATE TO	):	
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ORD	ER SUBJ	ECT TO	GENERAL TERMS AN	ID CONDITIONS	OF ATTACHED PURCHAS	E SUPPLEMENT NOA	E2-16	FUN	DING:		
QU	ANTITY	UNIT	DELIVER TO:		(auilding)	(ROOM)		UNIT PRICE	DISCOUNT	NET TOTAL	
	(4)	ccs	Certificati "I, ices called been furnis ments of th	on in the contifuence of the control	for listed in sacroe and made a community of that the mater of that the mater of the secondance of creer."  Signed Title: Date:	part hereof.  below:  rial and/or a  ar NFD 5642-D  with the requ	erv- have	862.00/ks		\$2,480.	
				<del></del>	THIS ORDER CO	DNSISTS OF3		PAGES.			

RECEIVED

1964 MAY 6

IL W. KISSINGER

When Separated From Enclosures, Ham This Document a.

### **PURCHASE ORDER** . MOLLS ATOMIC POWER LABOR !- DRY

### 1. Technical Requirements

A. Attachment #1 entitled "Technical Supplement" dated 4/2/64.

### 2. Delivery Requirements

KAPL requires and it is essential that delivery for Item 1 in any quantity greater than one (1) or less than eleven (11) and Item 2 be made on or before five (5) working days after receipt of order and material.

For the purpose of this order, a normal working day is defined as any eight (8)hours worked in any calendar day, Mondays through Fridays, except legal holidays.

### 3. Terms and Conditions of Purchase

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

- A. Modification dated April 1, 1964.
- B. Add Article 47 entitled "Modification to Terms and Conditions of Purchase For Government-Furnished Special Nuclear Materials Only dated March 9, 1964, as modified below:

In the event the General Electric determines that the fuels by Seller fail to meet the order requirements. Seller shall be obligated at no cost to General Electric to process fuel supplied by General Electric as replacement. Seller liability shall be limited solely to reprocessing of replacement fuel

C. Under the provisions of Article 47 entitled "Modification to Terms and Conditions of Purchase For Government-Furnished Special Huclear Materials Only," General Electric will furnish to Seller the following items of Special Ruclear Material for use in connection with and under the terms of this order:

Dimensional details are concarned in Attachment #1, Page 2.

If additional assemblies are required by Seller to complete the work, and it is deemed by KAPI to be in KAPI's and the Government's best interest to do so, then additional assemblies can be purchased from KAPL at Seller's expense at a price of \$1,000/pack assembly. In the event it is determined by KAPL to not be in its and the Government's best interest to supply such additional property when required by Seller, Seller shall be obligated to obtain any additional property at his expense and further to certify that the Seller acquired property meets all requirements of the order, or if no requirements are so stated in the order, then Seller shall certify that the Seller acquired property is identical in all respects to the first supplied KAPL property.



Ħ REPRODUCED

### PURCHASE ORDER

### . MOLLS ATOMIC POWER LABOR A . SRY

11 / 11 / 40	e an explete

3 PAGES. VENDOR KETALS & CONTROLS, Inc. PURCHASE ORDER NO. 5642-D

REPRODUCED AT GOYT EXPENSE # 18

### 4. Special Requirements

KAPL reserves the right to provide fuel in any quantity greater than one (1) but less than eleven (11) at the time determined by KAPL as appropriate subject to a five (5) working days advance notification to Seller. The schedule will cover approximately a 10 month period.

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



CORPERTE

RE	QUE	STF	OR S	HIPM	IENT (	OF S	S MA	TERI.	AL -		
SHIP TO		(,		CLA	SSIFICATION O	F MATERIAL			A.E.C. 101 FOR		
METALS & Co	STUK	<u>డక,</u>	<u>me.</u>						SGE-		<u>-210</u> €
MEC NUCLE	AR_	PRO	DUCT	5 3	TE REQUIRED DESTINATION	5/8	HIPMENT	DE	ON OF MATER		I.C.C. CLASS
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ATTENTION: J. WHIT		1	Holb ure		TRACT N.P.D. NO. N.F.	0-56	42-D	TO BE	YES F		ONDITION C
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PURPOSE OF SHIPMENT		<u> </u>	7	8U			177	C1 120	3 0		
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SHIPMENT REQUESTED BY	777	- 4	CTION MGR	alu	BLDG.	EX	T. SEN	ND COPY O	F SHIPPING DO	OCUMENT T	_
	ATE OF SH	IIPMENT	CARRIER	2		BILL/LADIN	IG NO.	GIGNATURE	OF SHIPPER		DATE
MATERIAL CLASSIFIER			USTODIAN	Z 1	ZOZA KA	Par receip	T S	IGNATURE	OF KAPL PURC	HASING	DATE
RADIOLOGICAL SERVICES		T	UNIT OF	MEASURE		ONATURE—A	AEC MATERIA	DIVISION		***************************************	DATE
MONOTORING INFORMATION	· .		GRAMS K	ILOGRAMS				KIND	FIC	U 233	3
EXTERNAL RADIATION			,			,			3	U 235	
440544 (410 AT 0 141014FC			GROSS WGT.	NET .	Wet	% U	220 V	% ENR.	ISOTOPE		
MREM/HR AT 2 INCHES		IDENTY		200	32.40		17.99		WGT.	5NR-	40700
MREM/HR PENETRATING		878/	ENECA		· · · · · · · ·		200		16.73	11	<u>-6</u> "
MREM/HR AT 1 METER**		8782	- "	3956	32,40		17.99		-		
INCLMREM/HR PENE		8/83	- ((	3736	36,00		20.20	<u>.                                    </u>	18,80	<i>K</i> /	
MREM/HR AT 15 FT.**	INCL										
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OUTER SURFACE CONTAMINAT	ION Z	5 182			3.60		Z.00				
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OTHER MONITORING SESULE	D										
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	DATE					J	J Coo	med		5/7	164
		-	21	0		MAN	AGER—MATER	IAL CONTRO	DL Z	285	DATE
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KAP 1264 (5:61) REV

REC	QUEST	FOR :	SHIPM	ENT O	F SS	MATE	RIAL		484
SHIP TO	(,J		CLAS	SIFICATION OF A	AATERIAL		Α.	E.C. 101 FORM N	ю.
Metals & Controls Inc.				DATE REQUIRED	DATES	HIPMENT	LOCA	SGE-MAC-	210 e
*C Nuclear Products	1. *		ŝ	11/64	5/	8/64		area	1 11 111
	:		MAT UE <	ERIAL CATEGORY	(CIRCLE ONE	DEE &	ERRA	AND NO. OF C	
ldg. N Perry Ave. Ext.				ORM MET				solution	
Attleboro, Mass.				MAT'L.		x	<u>. l</u>		
		_	1	TRACT	<i>~</i> 1		TO BE	DX YES □ NO	RETURNED CONDITION  SAME OTHER
ATTENTION: J. White/WS Holb	urn		PREPAI	D COLLEC	p 5642	SH.	IIP ORDER	☐ A.E.C. 0	
SHIPMENT Air Express Prot	. Sign.		х			799	<b>0</b> 7728	KAPL ME	
PURPOSE OF SHIPMENT				NUCLEAR SA				SIGNATURE C	Stan 5/8/64
Fabrication of fuel MEASUREMENT METHOD				Nucle	ear Safe	ety Ap	الساري ما		DATE: / UP
Toledo Grem Balance				and ]	Inspecti	on not	Requir		DE OUALITY CONTROL
d not r	equired			$\mathcal{W}$	Balla.	1	5864	1 B	OF QUALITY CONTROL:
Do not open in transit SHIPMENT REQUESTED BY	SE	CTION MGR.	<del></del>	SIGN: BLDG.	EX	5	ATE: END COPY OF	SHIPPING DOCU	WENT TO
CE Schmitt SHIPPING DOCUMENT NO. DATE OF SHIPM		Brown ICARRIER	1	El Isu	ZADING NO	177	HS DO	rr AFFIC	DATE
C-21324		CARNER			e, eading inc		De.	A.B.	la Flore
MATERIAL CLASSIFIER	CUS	TODIAN		KAP-84	RECEIPT	she	NATURE OF KA	AL PURCHASING	5/3/62/1
Apo Holling 5/8	164 PC	Lozie	or MEASURE	2026/120	28/1202	7/1202	9 ISION	1.	DATE
MONITORING INFORMATION		GRAMS	KILOGRA	MS	NU	Shor	town	The	5/8/64
EXTERNAL RADIATION	MATE	RIAL	DESCRIPTIO	)N	ΥPE	SIZE	KIND	TIC.	☐ -U 233
		GROSS	NET			ELEM.		ISOTOPE	<b>1</b> € −U 235
MREM/HR AT 2 INCHES** INC	CL. IDENTY	WGT.	wGT.	WGT.	% U	WGT.	% ENR.	WGT.	PROJECT NO.
MREM/HR PENETRATING	RB781	ENR	3956	32.40		17.99		16.73	SNR40700-00
MREM/HR AT 1 METER**	RB782	91	3956	32.40		17.99		16.73	11
INCLMREM/HR PENETRATIN	vic.					-,			
MREM/HR AT 15 FT.** INCL	RB783		3956	36.00		20.20		18.80	
MREM/HR PENETRATING							<del></del> _		
	RB781	DEP	-	3.60		2.00			
** FROM OUTER SURFACE OF CONTAINE OUTER SURFACE CONTAMINATION	- RR105	**	-	3.60	<del>                                     </del>	2.00			
c/m BETA GAMMA AT 1"									
NSTRUMENT SMEAR		·							
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	TOTALS		11,868	108.00	L	60.18		52.26	
			GROSS WO	TOTAL GT. EL	EM. WGT.		L		
	THE FOI	LLOWING	CONTRACT	TUAL INFOR	*ATION*	IS PROVI	DED FROM	CONTRACT	UAL RECORD FILES
SURVEYOR'S SIGNATURE DATE	AND IS	FACTUAL	TO THE BE	ST KNOWLE	DGE AND	BELIEF OF	THE MAN	AGER MA	TERIAL CONTROL
RADIOLOGICAL SERV. SIGN. DATE						~	, 2016	<del>3</del> en	518/6h
	4				MANAG	Comes ER-MATERIAL	ONTROL		5/8/64
*QUANTITY AUTHORI	ZED TO DAT	E	40		JNIT	-ca	F	ORM	
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QUANTITY THIS SHIP	MENT		3		JNIT JNIT		F	ORM	
CNIDO COMMENTS			3						

2 - NCO MATERIALS CONTROL

# KNO! LS ATOMIC POWER LABORATORY DELIVERY CONFIRMATION

No. 4488

	REF. MEI NAC	NO TAS	5642-D + PONTROLS INC AVE E 806	F PACKING SLIP IS AILABLE, ATTACH TO COPY ONE	DATE DELIVE HAND REPORT WAYBILL NO CHARGES: \$	ERED 3-13-6 F
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			# 1113 781	and a	B 782	# 00 PR
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	Sife					
MAT'L DE	LV'D	BY:	CURATOLO /2	ROOM	BLD'G	PHONE
	CON		COPY 5 - MANUE	MANAGER)	·	

### COURIER LECEIPT Nº 1160

REPRODUCED AT GOV'T EXPENSE # 18

NUCLEAR PRODUCTS

I HAVE RECEIVED:

NO. ENVELOPES

NO. PACKAGES

No. CONTAINERS

1

C.E. Schmitt (SGE)

Metals & Controls Inc., Nuclear Products Group, Attleboro, Massachusetts COURIER:

J.J. Coomes

ADDRESSED TO: Knolls Atomic Power Laboratory, Schenectady, New York (NAME AND ADDRESS OF ADDRESSEE)

IDENTIFIED AS FOLLOWS:

MAC-SGE-806

SHIPPING AUTHORIZATION SIGNATURE

HEALTH & SAFETY

*8628 4/68

1 Box

Metals & Controls Inc.

Nuclear Products Group Attleboro 5/13/64 Mass.

(PLACE OF TRANSFER)

(DATE)

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1/64			WOOLDAN !		CAU. 2-0000			OICE DATE
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<b>}</b>	cc's Certifi	ication in form as	follow	's :		SS WEIGHT	60	_ f.
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SHIP TO	<b>3</b>		CLA	SSIFICATION OF A	ATERIAL	<u></u>	A.	E.C. 101 FORM	NO.
Metals & Controls Inc.						MENT	1 100	SCE-M	C-511
McC Nuclear Prod.				5/21/64 ERIAL CATEGORY	5/	21/64			51 11 111
Bldg. N Perry Ave. Est.			UE <	75 UE > 75	UN	UD OTHER	<u> </u>	_wooden	
Attleboro, Mass.				FORM MET	AL AI	TOA OXII		SOLUTIO	
TENTION: J. White/WS Holbur	70		OR M		NPD 56	<u> </u>	TO BE RETURNED	□ NO	RETURNED CONDITION  SAME CTHE
IPMENT Hand carry C. Schm			PREPA				07728 -	A.E.C.	ESSENGER
Fabrication of fue				NUCLEAR SA				SIGNATURE	OF SECURITY:
ASUREMENT METHOD				l l		fety App tion pot	_		very !
Toledo gram balance scellaneous instructions QC inspect.	ion not	t requi	red		1 10		5.20-6	SIGNATURE	OF ONE THE NEW YOR
Do not open in transit		CTION MGR.		SIGN:	V. Ja	Mayber D	ATE:	SHIPPING DON	WWW DATE SILL
		Brown			717		HS Dorr	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
CR Schmitt  PPING DOCUMENT NO. DATE OF SHIPMENT		CARRIER		BIL	717	to. sid	NATURE OF TR	AFFIC	D
-21500	, leus	TODIAN		KAP-84	RECEIPT T	2120/ 510	NATURE OF	P PARCHASING	0 0 10
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90	MATE	GRAMS	DESCRIPTION		YPE	SIZE	KIND	FIC	1/14
EXTERNAL RADIATION			P44E		VV.	3162	4		☐ −U 233 ☐ −U 235
MREM/HR AT 2 INCHES** INCL.	IDENTY	GROSS WGT.	NET WGT.	wg1.	% U	ELEM. WGT.	% ENR.	ISOTOPE WGT.	PROJECT NO
MREM/HR PENETRATING	<b>RB</b> 786	ENR	3956	28.80		17.31		16.52	SNR40700-00
MREM/HR AT 1 METER**	RB787	ENR	3956	28.80		17.14		16,46	
CLMREM/HR PENETRATING	RB788	KNR	3956	28.80		16.74		16.09	
MREM/HR AT 15 FT.** INCL	RB789	ENR	3956	22.364		12.548	-	11.69	
MREM/HR PENETRATING			ļ						
* FROM OUTER SURFACE OF CONTAINER	<b>RB</b> 786	DEP	ļ	8.22		5.52			
OUTER SURFACE CONTAMINATION	RB787	DEP		10.271		6.136			
c/m BETA GAMMA AT 1"	RB788	DEP		9.249		6.13			
d/m ALPHA 14 SQ. INCH	<b>RB</b> 789	DEP	<u> </u>	26.961		16.09			
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			JGROSS WO	GT. EL	EM. WGT	· L			
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DIOLOGICAL SERV. SIGN. DATE			,			T Coomes	$X \setminus V$	èon	oz 5/20,
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SNRO COMMENTS									
		2 1	NCO MATE	ERIALS CONT	ROL		•	•	

# KNOLLS ATOMIC POWER LABORATORY DELIVERY CONFIRMATION

No. 4492

ORDER	REF.	NO	3642	IE DAC	KING SLIP IS	DATE DELIVERE	3/24/in
NDOF.	MET	ALS Y	CONTROLS 4	Sec AVAILAB	LE, ATTACH TO	DATE DELIVERED Hand Conlee WAYBILL NO. (IF	ANY) deliza
			£ 810		DPY ONE	CHARGES: \$	PREPAIDM [
PURCHASE ORDER ITEM NO.	QTY.	UNIT			DESCRIP	TION	AT GO
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117	1000		786 - R		604.0 1		
MAT'L DE	LV'D E	3Y:		<u> </u>	ROOM	BLD'G	PHONE
MAT'L DE	ר סיעב	го: Д.	Curatalo /	21800	ROOM	BLD'G	PHONE
DELIVERY		1/	ION:		· · · · · · · · · · · · · · · · · · ·		
KAP 477 (3-61)	NEW			MANUFACTI	IAGER) JRING CONTRO	DL	

### NUCLEAR PRODUCTS

HAVE RECEIVED:

No. ENVELOPES

No. PACKAGES

No. CONTAINERS

1

C. Schmitt (KAPL)

COURTER: Metals & Controls Inc., Nuclear Products Group, Attleboro, Massachusetts (NAME AND ADDRESS)

J.J. Coomes

ADDRESSED TO: Knolls Atomic Power Laboratory, Schenectady, New York

(NAME AND ADDRESS OF ADDRESSEE)

IDENTIFIED AS FOLLOWS:

MAC-SGE-810

Container #1

HEALTH & SAFETY

PR-18628 4/68

Metals & Controls Inc. Nuclear Products, Attleboro, Mass. 5/25

(PLACE OF TRANSFER)

(DATE)

IX CLASS	SIFIED	MIALS	& CONTR	OLS IN		□ в/м	REQUIRED
UNCLA	SSIFIED	P. T. BOX 89			0 F		DULE REQ'D
		Texas <	INSTR	UMENT	S	PAGE I	-
7-00306 ES OI. ∕سب	) RDER NO:		•			INV	PAGE SHAPE
/1/64		NUC	CLEAR PRODUCTS	CAstle 2-3800			, To
		ER ACKNOWLEDGEMENT			JOB REPORT	REQ'D. INV	DICE DATE
CUSTOMER O		CODE 205	ADMINISTR			R MR	☐ F ☐ 6
NPD5642-	· <u>U</u>	KAPL-295	J. WHIT	LE	MATERIAL	· · · · ·	<u> , , , , , , , , , , , , , , , , , , ,</u>
KNOLLS A	TOMIC POWER LA	BORATORY		R PROJ.NO.		IORIZED	
P. O. BO	X 1072		(LICE)	NSE)	U-235	SS	OTHER
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			SOURCE OF	MATERIAL	SHIP		
SHIP TO:			cus	TOMER			
		DAD 4	DISPOSITIO	N OF SCRAP			
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REQUIRED DE		и	O. OF PKGS.	METHOD RO	U'E OF SHIPME	NT	
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QUANTITY	DESC	RIPTION AND INSTRUCTIO	NS	BALANCE	QTY. THIS	PRI	
ORDERED		(UNCLASSIFIED)	<del></del>	ON ORDER	SHIPMENT	UNIT	TOTAL
40	Hot Roll Fuel	Packs			16AC-8GE-81		
			. 9 9				
	cc's Certific	ation in form as fo	ollows:		V-235 COM	30 RET: 52	
[	I	certify that the ma	terial				
		es called for on KA					
		-D have been furnis		t			
	accordance with aforesaid order	th the requirements	of the				
	MIOLERATO OLO	er.					
	Requirements						
	KAPL will sup	ply fuel read	ly for				
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	Andy Boisvert	has been supplied	specific				
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	Delivery  KAPL will give tion of shipme	e five <u>days</u> advance	notifica-				

		REQU	JES _	FOR S	SHIPA	MENT O	F SS	M TE	RIAL	1	598
SHIP TO					ĈI.	ASSIFICATION OF	MATERIAL		1		
			•			DATE REQUIRED AT DESTINATION	, DE	SIRED			
	Nuclear Pro	ducts			M			)	TYP	E AND NO. OF C	, z
	Bldg. N Per	ry Ave. E	mt.		UE	MF			1	914 E   SOLUTION	OTHER S
******	Attleboro,	Mass.		<u></u>	o			x			A 9
ATTENTION:	WS Holburn/	White			,		5642 <b>-</b> D		TO BE RETURNED	<b>₩</b> YES	RETURNED CONDITION
METHOD OF					PREP	AID COLLEC	T VALL				
SHIPMENT PURPOSE OF SI	HIPMENT	C. Schmit	<u>U</u>			NUCLEAR S	AFETY CERT	11990	1 ( )2		1 4 /
MEASUREMENT	Fuel METHOD									fan Klei	DATE:
MISCELLANEO	Toledo gram	balance					4.4			SIGNATURE	OF QUALITY CONTROL
CLUBIACOUT BEC	Do not open	in trans	lt	<del></del>		SIGN: W	Balla	den 7	-{7-64		
٠	CE Schmitt		254		wn	EL					MENJIO 7
3HIPPING DOC		DATE OF SHIPMENT		CARRIER		Ві	LL/LADING N	O. SIG	NATURE OF THE	RAFFIC	~ 7/21
MATERIAL CLA	SSIFIER	7/17/	CUST	ODIAN		}	· <del>-</del>	7 -			lotchilu "
RADIO PORCA	L SERVICES INFORMATION	- '1' '16	9 PC		T 13	028/13027	/13018 NATURE-AEC	MATERIAL DIV	13026/1	3025	7/7 04
$\frac{\circ \circ}{\circ}$		THE PRODUCTS  N Perry Ave. Brt.   <b>6 y</b>									
EXT	ERNAL RADI	ATION								`	
	MREM/HR AT 2 INC	HES** INCL.	IDENTY			WGT.	% U		% ENR.		PROJECT NO.
	MREM/HR PENET	RATING ]	<b>38-81</b> 6		3956	40.30		22.78		21.33	SNR40700-0
					3956	\$0.30	ļ	22.82		21.26	
INCL		- 1	RB-818	<del> </del>	3956	40.30	<del> </del>	22.74		21.20	
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	·		-		<del> </del>	<del>                                     </del>					
	_c/m BETA GAMM	A AT 1"									
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KAP 464 - 8 (10-63) REV.

### PURCHASE ORDER

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AREA CODE 518 TELE

TWX 518-556-2393 TELEPHONE 393-6611

### KNOLLS ATOMIC POWER LABORATORY

P.O. BOX 1072

PURCHASING

SCHENECTADY, NEW YORK 12301

OPERATED BY THE GENERAL ELECTRIC COMPANY UNDER GOVERNMENT CONTRACT W-31-109-ENG.-52 PURCHASE ORDER NO. M.I. NO. DATE ORDERED VENDOR COOF SHOW NPD NO. ON ALL PACKAGES 5612-D 19901728 7/24/64 2011 AND CORRESPONDENCE minut No. 1 istale à Controle, Inc. SHIP TO: KNOLLS ATOMIC POWER L'ABORATOR 34 Forest Street WAREHOUSE BLDG. M-2 Attleberg, Maggaringestig SCHENECTADY, NEW YORK Athention: Mr. J. White BILLING INSTRUCTIONS (LISE LETTERHEAD ADDRESS:) RENDER INVOICES IN DUPLICATE TO: FINANCE - ACCOUNTS PAYABLE ON PEEPAID SHIPMENTS F.O.B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL SHIP VIA F.O.8. DO-E2 Certified under DMS Reg. 1 REQUESTED ON SITE | DELIVERY DATE ORDERED POR SLDG. C. B. Schmitt THIS ORDER SUBJECT TO GENERAL TERMS AND CONDITIONS OF ATTACHED PURCHASE SUPPLEMENT NO. FUNDING: 1 QUANTITY UNIT DELIVER TO: DISCOUNT MET TOTAL ITEM (MILDING) (MOOM) Purchase Order M29 5642-D issued under date of May 1, 1964 is hereby exembed for the purpose of increasing the quantity of Item 1 by two (2) at no change in pris d adding Items I and 4 increasing the order price by 536.00 in consideration thereof. Delate Item 1 in the entirety and substitute in line thereof the following: #5⁻#80°00. Add Item 3 and 4 as follows: Certification in the form prescribed below: 3 certify that the natural and/or service d for on KAFL Purchase Order MPD 5649-D have been furnished in strict econdence with the requirements of the eforestid order." (Included in the price PAGES.

GENERAL (SE) ELECTRIC

RECLIVED

JUL 31 1964

J. W. KISSINGER

### KAP 464 - B ( 10-63) REV.

TELEX 014-521 AREA CODE 518

### PURCHASE ORDER

TWX 518-556-2393 TELEPHONE 393-6611

### KNOLLS ATOMIC POWER LABORATORY

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SCHENECTADY, NEW YORK 12301

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GENERAL ELECTRIC

### PURCHASE ORDER

### KNOLLS ATOMIC POWER LABORATORY

PAGE -3- OF PAGE PYENDOR Metals & Controls Inc.

__ PURCHASE ORDER NO. 5642-D

Amendment No.

EXPENSE

B. (continued)

2. B. (continued);

For the purpose of this smendment, a normal working day is defined as any eight (8) hours worked in any calendar day, Monday through Friday, except legal bolidays."

C. Instruction 3 is hereby modified as follows:

Delete paragraph 3.B in its entirety and substitute in lieu thereof the following:

- "B. Add Article 47 entitled "Modification to Terms and Conditions of Purchase for Government-Furnished Special Nuclear Materials Only" dated May 27, 1964 as modified below:
  - 1. In the event that General Electric determines that the processed by Seller fail to meet the order requirements, Seller shall be obligated at no cost to General Electric to process supplied by General Electric as replacement. Seller liability shall be limited salely to reprocessing of replacement
  - 2. Delete subparagraph 1 under Paragraph B of Article 47 in its entirety and substitute in lieu thereof the following:
    - In the performance of the work under the resultant order, Seller shall take all reasonable precautions to protect the health and safety of employees and all members of the public and to minimize danger from all hazards to life and preparty. and shall, with respect to all work except that which is specified in Section 2 of this article, comply with all health, safety, and fire protection regulations and requirements (including reporting requirements) of the Schenectady Naval Reactors Office of the Commission. In the event that Seller fails to comply with said regulations or requirements. General Electric may, without prejudice to any other legal or contractual rights of the Commission or General Electric issue an order stopping all or eny part of the work. Thereafter a start order for resumption of work may be issued at the discretion of General Electric and the Commission and Saller shall make no claim for an extension of time or for compensation or damages by reason of or in connection with such work stoppage.

Add subparagraph 2 under Paragraph B as follows:

'2. All work involving chemical or ceramic processing of special muclear material prior to introduction into core component production processes and all handling, storage, shipment, processing and disposal of nonrecyclable scrap special nuclear material following its removal from core component production processes performed at Seller's plant or at the plant of any lower tier sub-contractor shall be performed in accordance with

## PURCHASE ORDER KNOLLS ATOMIC POWER LABORATORY

PAGE __4- OF _4- PAGES. VENDOR Metals & Controls Inc. PURCHASE ORDER NO. 5642-D

Amendment No.

C. (continued)

the requirements of a special nuclear material license which shall be obtained by Seller (or lower tier subcontractor if such work is to be performed by a lower tier subcontractor) under the provisions of Title 10 or the Code of Federal Regulations.

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

D. Modify paragraph 3.C as follows:

Delete the second paragraph in its entirety and substitute in lieu thereof the following:

Timensional details are contained in Attachment No. 1, Page 2, Nev. 1.

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

### Purchase Order Price Summary:

Original Amount of Order \$2,480.00
Increase by This Amendment No. 1 536.00
Revised Amount of Purchase Order \$3,016.00

APRICALL AND PIPATALA

REQUEST FOR SHIPMENT OF SS MATERIAL A.E.C. 101 FORM NO CLASSIFICATION OF MATERIAL Metals & Controls Inc. KZA-KAB-8 LOCATION OF MATERIAL I.C.C. CLASCE J 31 111 W 8/13/64 8/13/64 Nuclear Prod. TYPE AND NO. OF CONTAINERS Box 914 FINR ldg. N Perry Ave. ALLOY OXIDE OF MAT'L. Attleboro, Mass. MYES CONTRACT TO BE RETURNED CONDITION J. White/WS Holburn ORN P.D. NO 5642 RETURNED D NO MENTS SE METHOD OF SHIP ORDER A.E.C. COURIER 7990**Y**751 Excl. truck x SHIPMENT NUCLEAR SAFETY CERT Matl required for use on KAPL contract Nuclear Safety Approval and Inspection not Require Toledo on halance GNATURE OF QUALITY CONTROL OC not regd. - Do not open in transit
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THE FOLLOWING CONTRACTUAL INFORMATION* IS PROVIDED FROM CONTRACTUAL RECORD FILE
AND IS FACTUAL TO THE BEST KNOWLEDGE AND BELIEF OF THE MANAGER—MATERIAL CONTROL

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TEXINSMC ABOR

SCHDY NY MAY 8 324P EDT

TO WS HOLBURN M & C

FM WJ GALLAGHER KAPL

RE NPD 5642 AUTHORIZATION IS GRANTED TO SHIP
CONTAINING 52 GMS ISOTOPE, TO KAPOXXX KAPL BETWEEN 5/12/64 AND
5/14/64. C. SCHMIDT OFKAPL WILL ACT AS COURIER FOR THIS SHIPMENT
PLS PACKAGE TO MEET ICC SPEC.

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TEXINSMC ABOR

AEC KAPL SCH
PLS RUSH L FLG WIRE
TO.. WS HOLBURN/H WEISS M & C
FM.. WJ GALLAGHER KAPL

RE NPD 5642, AUTHORIZATION IS GRANTED TO SHIP 5 ENICHXX ENRICHED ELEMENTS TO KAPL ON OR ABOUT 7-2-64

END® TEXINSMC ABOR NNNN

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FUSASSU BULV

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TEXINSMC ABOR

KAPL 1964 MAY 21 PM 1:11 TELEGRAPH

AEC KAPL SCH

TLX SCHDY NY MAY 21 110P EDT

WS HOLBURNTH WEISS M & C

RE NPD 5642 AUTHORIZATION IS GRANTED TO SHIP

CONTAINING LSXXX LESS THAN 350 GMS OF U-235 TO KAPLBETWEEN 5/22/64 AND 5/27/64. C. SCHMITT OF KAPL IS AUTHORIZED TO ESCORT THIS SHIPMENT TO KAPL BY MEANS OF TRANSPORTATION HE WILL PROVIDE

WJ GALLAGHER K A P L

JUL 21 AH 8:56

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PP RUETDH

DE RUEPNY 04K 21/1240Z

ZNR

P 211230Z

FM WJ GALLAGHER KNOLLS ATOMIC POWER LAB SCHENECTADY NY
TO WS HOLBURN METALS AND CONTROLS ATTLEBORO MASS

AEC

ВТ

UNCLAS RE NPD 5642 AUTHORIZATION IS GRANTED TO SHIP APPROX.
64 GMS U-235 TO KAPL ON OR ABOUT 7/23/64. C. SCHMITT OF KAPL
MAY ACT AS COURIER FOR THIS SHIPMENT

BT

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ISAPL TELEGISPH

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PP RUETDH

DE RUEPNY 08K 03/1403Z

ZNR

P 031353Z

FM WJ GALLAGHER MOLLS ATOMIC POWER LAB SCHENECTADY NY

TO WS HOLBURN/J ERIKSON METALS AND CONTROLS INC

ATTLEBORO MASS

AEC

BT

UNCLAS RE NPD 5642, AUTHORIZATION IS GRANTED TO SHIP ENRICHED ELEMENTS RB-824 AND RB 825 TO KAPL, OR OR ABOUT 8-3-64 BT

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PP RUETDH

DE RUEPNY 30K 18/2045Z

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P 182035Z

FM BRDDT MOLLS ATOMIC POWR LAB SCHENECTADY NY
TO WS HOLBURN METALS AND CONTROLS ADABORO MASS

AEC

вТ

UNCLAS PERMISSION IS-GRANTED TO SHIP TO KAPL ON OR ABOUT 8/19
253 GMS U-235 ON NPD 5642. REF. C SCHMITT. SHIP VIA EXCLUSIVE TRUCK
MAYFLOWER. DUE YOUR STATION 8/19 FOR KAPL. PACKAGE TO ICC REG IN
SEAL TRUCK

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Metals & Controls Inc.	<u> </u>			DATE REQUIRED	DATES	HIPMENT	LOCA	KZA-KAB- TION OF MATERI	AL I.C.C. CLASS
MC Muclear Product		<del></del>	11	t destination /2/64 Erial category	10/30		<b>D</b> 3	AND NO. OF C	I 11 111
Idg. N Perry Ave. Est			Κ	75 LIE > 75	UN UI	ENT &	DEP 7	ATE (	WIL 159.
Attleboro, Mass.				META	AL ALLO	DY OXIC		SOLUTION	OTHER
				TRACT			TO BE	¥ YES □ NO	RETURNED CONDITION
ATTENTION: J. White/WS Rolb	urn		PREPAI	COLLECT	5642 VALUE	SH	IP ORDER	☐ A.E.C. 0	OURIER
SHIPMENT RYCL Truck seal	ed van		x	NUCLEAR SAF			01751	SIGNATURE	^
Fab of fuel				Nuclea and In			roved	John o	elangofu 10/30
Toledo gm balance					mpecte	u	C		,
			_	Health	Physi	C8 .		SIGNATURE	OF QUALITY CONTROL:
Do not open in transit	S	ECTION MGR.		BLDG.	EXT			SHIPPING DOCU	DATE: MENT TO
CE Schmitt SHIPPING DOCUMENT NO. DATE OF SHI	IPMENT	HF Bro	WIL	E1	ADING NO	7177 D. SIG	HS :	Dorr AFFIC	DAT
C-23811 MATERIAL CLASSIFIER	lcu	STODIAN		IKAP-84 R	RECEIPT	ISIG	NATURE OF K	APL PURCHASING	DAT
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EXTERNAL RADIATION		FRIAL	PECCHIPTIO		/ PE	SIZE	KIND	ETC.	☐ -U 233
		GROSS	NET		0/ 11	ELEM.	0/ 5040	ISOTOPE	—U 235
MREM/HR AT 2 INCHES** II	NCL. IDENTY	WGT.	WGT.	WGT.	% U	WGT.	% ENR.	WGT.	PROJECT NO.
MREM/HR PENETRATING	EB866	KINR	8 Kg	72.960		40.9	3	38.14	SNR40700-00
MREM/HR AT 1 METER**	PB821	ENR	8 kg	93.270		54.	28	51.89	
NCLMREM/HR PENETRA	BOZZ	Enr	8 Kg	148.612	<u> </u>	76.4		72-93	
MREM/HR AT 15 FT.** INC	RB862	Enr	8 Kg	<del>-190.680</del>		110.9	<b>x</b>	105.98	
MREM/HR PENETRATING	RB864	Enr	8 Kg	223.750	<b></b>	116.:	.5	110.89	
** FROM OUTER SURFACE OF CONTAIN		<u> </u>							
OUTER SURFACE CONTAMINATION	DN RB821	DEP		48,410		29.3	2		
c/m BETA GAMMA AT 1"	<b>RB82</b> 2	DEP		65.235		39.5			
d/m ALPHA 14 SQ. INCH	EB862	DEP		97.85		59.2	5		
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			GROSS WO	TOTAL—	EM. WGT.	526.	76	379.83	
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QUANTITY THIS SH	OTAL SHIPPED		32		NIT			V.M	
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HAP 1264 (12-61) Rev.

SHIP TO	i		;	ECCENTION OF I	MATERIAL		Â.	E.C. 101 FORM N	10.
Metals & Control Inc.					,,,,,	777	1 100	KZA-KAB	28 9
'C Muclear Products				at destination	2	DESIRED /11/65	100	AIION OF MAIER	1.C.C. CLASS
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idg I Perry Ave Ext	1		UE				ENR		(8)
Attleboro, Mass.			OF	FORM MAT'L			<b>x</b>		
ATTENTION: WS Holburn/R White	<del></del>	·	OR 1	N.P.D. NO.	PD 56	LOE S	RETURNED		SAME SOTHER
SHIPMENT ECCL CETTIET SEALED V	an		x	NUCLEAR SA	FETY CERT.	799	27725	☐ KAPL ME	SSENGER
Fab fuel				t		_	proved	John	Wilsong 2 7
Toledo om balance MISCELLANEOUS INSTRUCTIONS					:			CONTURE	OF QUALITY CONTROL:
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Metals & Control Inc.  7. Ruclear Products  1. Survey Ave Ext  1. Surv		2/8/65							
EXTERNAL RADIATION	MATE	RIAL	DESCRIPTIO	ON	YPE	SIZE	KIND	ETC.	
MREM/HR AT 2 INCHES** INCL.	IDENTY			WG1.	% U		% ENR.		PROJECT NO.
MREM/HR PENETRATING	RB916		8 Kg	183,200		102.372		99.992	SNR40700-00
MREM/HR AT 1 METER**			8	147-269					
NCLMREM/HR PENETRATING					1				
MREM/HR AT 15 FT.** INCL			]		1				
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Metals & Controls	Inc.		Palace	FICATION	F MATERIA		]-	<b>}</b> -	.c. 101 FORM N	
MAC Nuclear Produ		<u> </u>		TE REQUIRE DESTINATION 18/65	N	DESIRED		D3	TION OF MATER	AL I.C.C. CLAS
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Attleboro, Mass.			CONT	-			x	TO BE	YES	RETURNED CONDITION
ATTENTION: WS Holburn/White			OR N.	P.D. NO.	.ECT 5642	VALUE	SH	RETURNED IP ORDER	□ NO □ A.E.C. (	SAME TO OTH
SHIPMENT EXCLUSIVE CATTIET			x_	NUGLEAR	SAFETY CE	V.: a .	799	OY751_	☐ KAPL ME	
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Toledo gm balance					<b>r</b>					70
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CE Schmitt	MENT	CARRIER CARRIER	cigrosso	<u> </u>	BILL/LADIN	7177 EN6.	SIG	NATURE OF TRA	AFFIC	D
25398 DER 2012 7-J	-63	TODIAN		KAP	-84 RECEIPT	<u></u>	SIG	NATURE OF KA	PL PURCHASING	D
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MREM/HR AT 2 INCHES** IN	ICL. IDENTY	GROSS WGT.	NET WGT.	WGT.	%		EM. /GT.	% ENR.	ISOTOPE WGT.	PROJECT NO.
MREM/HR PENETRATING	√ RB927		4000		;	88	3.96	)	86.896	SNR40700-00
MREM/HR AT I METER**	/ RB928		4000			102	2.01	3	99.647	
MREM/HR PENETRATI	INO RB929		14000	·		81	30	7	82.330	
MREM/HR AT 15 FT.** INCL	AB930		14000		-	86	.76	3	84.740	
MREM/HR PENETRATINGD/	- HRA3T		4000			!	.19		84.174	
** FROM OUTER SURFACE OF CONTAIN  OUTER SURFACE CONTAMINATIO			4000		+	88	3.10		86,051	
c/m BETA GAMMA AT 1"										
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TELEX 014 - 521

AREA CODE 518

TWX 518-556-2393 TELEPHONE 393-6611

# KNOLLS ATOMIC POWER LABORATORY

PURCHASING

P.O. BOX 1072

SCHENECTADY, NEW YORK 12301

			OPER	ATED BY THE GENERAL EI	LECTRIC COMPANY UNDER	GOVERNMENT CONTR	ACT W-31 - 109-ENG	52		
-				r		<b>7</b>		<del>f</del>	URCHASE C	ORDER NO.
	7990	Y 728	XV #3	2/26/65	3611 3611	SHOW NPD NO	O. ON ALL PAC ORRESPONDENC			42-D
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ام ا	Kereins	ifter 1	referred to	as Seller)	1		NCE - ACCOUNT	S PAYABLE	•	•
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THIS	ORDER SUB.	JECT TO	GENERAL TERMS A	IND CONDITIONS	OF ATTACHED PURC	HASE SUPPLEMEN	TNO. ARC I	FUN	DING:	W-31
ITEM	QUANTITY	TIMU	DELIVER TO:		<b>.</b>		\	UNIT PRICE	DISCOUNT	NET TOTAL
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And the second s			creased by der price	y \$684.00, r smount of .	e of \$3,016.00 resulting in	total rev	ised or-		0 0	\$3,760.00
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When Separated From Enclosures, Handle This

Document As Unclassified

MAR 4 1965

J. W. KISSINGER

Amendment No. 2

REPRODUCED AT GOV'T EXPENSE

PAGES. VENDOR Metals and Controls, Inc.

PURCHASE ORDER NO. 5642-D

Add subparagraph B to Instruction 1 as follows:

B. Attachment #2 entitled "Technical Supplement S-1-1" dated Feb. 5, 1965 for Item 5.

Add subparagraph C as follows:

C. Item 5 in any quantity greater than (1) or less than eight (8) on or before five (5) working days after receipt of amendment and material.

Delete subparagraph C under Instruction 3 in its entirety and substitute in lieu thereof the following:

Dimensional details are contained in Attachment #1, page 2, Rev. 1 and Attachment #2, page 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		\$2,480.00
Increase by Previous Amendments		536.00
Increase by this Amendment No. 2		684.00
Revised Amount of Purchase Order	 c	\$3,709.00

#### PURCHASE ORDER

HEX 014 - 521 TWX 518 - 556 - 2393

#### KNOLLS ATOMIC POWER LABORATORY

<u>.</u> ````	ODE 518	TELEF	PHONE 393-661	1		P.O. BO	X 1072			CHENECT	ADY, NEW YO	PRK 12301
			OFE	RATED BY THE GEN	ERAL ELECT	RIC COMPANY UN	DER GOVERNI	MENT CONTRACT W	- 31 - 109-ENG	52		
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	(BUILDING) (ROOM)	PRICE	1012
	Purchase Order MTD 5642-D issued under date of 5/1/64 as amended to date is hereby further amended for the purpose of modifying Item 5 scope of work reducing the order price by \$89 in consideration thereof.		
	Delete Item 5 in its entirety and substitute in liou thereof the following:		
1		\$108/ea	\$756
	Add Item 6 as follows:		
			\$667
	The total order price of \$3,700 is hereby decreased by \$89, resulting in a total revised order price amount of		\$3,611.00
	All other terms and conditions of the original order as smended to date are to remain in force and effect except as specifically smended herein.		

THIS THE CONSISTS OF 2



#### PURCHASE ORDER

# KNOLLS ATOMIC POWER LABORATORY

		Amendment No. 3
GE 2 OF 2 PAGES	VENDOR Metals & Controls, Inc.	PURCHASE ORDER NO. 56424

# Purchase Order Price Summary:

Original Amount of Order	\$2,480.00
Increase by Previous Amendments	1,220.00
Decrease by this Amendment No. 3	(89.00)
Revised Amount of Purchase Order	 \$3,611.00

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KAPL 1 TELEX PD SCHDY NY 15 OCT 1965 240P EDST

TO - M&C INC ATTLEBORO MASS

ATTN - W HOLBURN/J WHITE

IV NO. 7, (NPD 5642-D.) IS PRESENTLY BEING PROCESSED. THIS IV CHANGES THE FOB SHIPPING POINT TO KAPL.

CONTINGENT ON IV NO. 7 BEING APPROVED BY AEC/SNR, WILL M&C
ACCEPT RESPONSIBILITY UNDER THE TERMS OF THE M&C LICENSE FOR
A SHIPMENT TO M&C, FOB-KAPL. IF AFFIRMATIVE,
MAY KAPL ACT IN M&C BEHALF IN MATTERS OF PACKAGING AND
LABELING. IF AFFIRMATIVE, PLS FORWARD PACKAGING & SHIPPING
INSTRUCTIONS. CONTAINING A TOTAL OF 424 GMS. SS
WEIGHT & 175 GMS. U-235 WEIGHT,
CONTAIN BOTH DEPLETED & ENRICHED U.

FM - WJ GALLAGHER
KNOLLS ATOMIC POWER LAB, SCHENECTADY NY

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M. A. MEŽĆC

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AP 464 -8 (8 - 65)

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TX 014-521

#### PURCHASE ORDER

# KNOLLS ATOMIC POWER LABORATORY

TWX 518 - 556 - 2393

PURCHASING

	CODE 518	TELE	PHONE 393-6611		P.O. BO	X 1072	·	S	CHENECTA	ADY, NEW	YORK	12301
_			OPERA	LTED BY THE GENERAL EL	ECTRIC COMPANY UNI	DER GOVERNMEN	IT CONTRACT W-	31 - 109-ENG	52			
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ŒΜ	QUANTITY	UNIT	DELIVER TO:		( BUILD	ING)	(ROOM)		UNIT	biscou	NT	NET TOTAL
			Purchase is as amended purpose of quantities by \$196 in	Anterials en t from New Y as sales to Order MPD 56 I to date is r adding Ite accordingly a consideration change in	the United 12-D issued hereby fur a 7 and red y by incres ion thereof	and Local I States I under or rther ambuding I suring the	date of finded for the order parties	sod lca. 5/1/64 r the 1 5 price				

THIS CONSISTS OF PAGES. Amendment No. 4

GENERAL (%)

Delete Item 1 and 5 in their entirety and substitute

The lotel order price amount of \$3,611 is hereby

increased by \$196.00 resulting in a total revised order

in lieu thereof the following:

RECEIVED

\$59.00

108.00

208.00

\$1,416.0

432.0

756.0

**43,807**.4

OCT 21 1965

J. W. KISSINGER

#### = 464 - C (10/04) REV.

#### PURCHASE ORDER

#### KNOLLS ATOMIC POWER LABORATORY

PAGE 2 OF 3 PAGES. VENDOR Metals & Controls Inc. PURCHASE ORDER NO. 5642-2

Amendment No. 4

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REPRODUCED! AT GOVT EXPENSE #

Instruction 1 is hereby modified as follows:

Add Sub-paragraph C as follows:

C. Addendum #1 dated 10/18/65 to Technical Supplement S-1-1 dated 2/5/65.

Instruction 2 is hereby modified as follows:

Add sub-paragraph D as follows:

D. Item 7 on or before three (3) weeks after receipt of order and material.

Add Instruction 5 as follows:

#### 5. Shipping Instructions

- 5.1. Shipment shall be made f.o.b. destination/KAPL. Risk of loss or damage shall remain with KAPL. Seller shall assume responsibility for shipment in accordance with the provisions of Seller's license issued by the AEC Division of Licensing and Regulations. KAPL will reimburse Seller for shipping charges for all shipments of nuclear fuel material. All shipments shall be prepaid with shipping charges billed separately when invoicing the specific item. The invoice shall be accompanied by the original freight bill or a copy certified by the carrier.
- 5.2. Shipments from KAPL to Seller shall be made f.o.b. point of origin (KAPL).

  Risk of loss or damage shall remain with KAPL. Seller shall assume responsibility for shipment in accordance with the provisions of Seller's license issued by the AEC Division of Licensing and Regulations.
- 5.3. For the purpose of this order shipments will not exceed 350 gram uranium in the Prior to any shipment from KAPL to Seller, Mr. N. Weiss shall be consisted for Seller's shipping and packing instructions.
- 5.4. One (1) copy of all shipping documents (including a courtesy copy of the completed nuclear material transfer form (Form 101) if Station KZA is not on the distribution) shall be mailed at the time of shipment of any special nuclear material under this order to:

Knclls Atomic Power Laboratory
P. O. Box 1072
Schenectady, New York 12301
Attention: Mr. J. J. Coomes, Manager
NCO/NCMC

#### **PURCHASE ORDER**

# KNOLLS ATOMIC POWER LABORATORY

	<del> </del>	
PAGE 3 OF 3 PAGES.	VENDOR Metals & Controls Inc.	purchase order no. <u>5642-D</u>

Amendment No. 4

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	\$2,480.00
Increase by Previous Amendments	1,131.00
Increase by this Amendment No. 4	196.00
Revised Amount of Purchase Order	\$3.807.00

COMPLETION OF NPD 5642 - NEC NUCLEAR, INC.

March 2, 1966

Mr. R. C. Bisbee Building Ak KAPL Site

KAPL order NPD 5642 has been completed and approval to close out the order has been given by ABC/SNR. No loss of fuel occurred; therefore, the order is now closed out.

T. W. Kissinger Materials Control NUCLEAR CORE OPERATION

TWK/lap

IODUCED AT GOVT EXPENSE # 18

P 444-A (10-43) REV.

HEX 014-521

REA CODE 518

LIS ATOMIC POWER LABORATORY

P.O. BOX 1072

PURCHASING

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

IS ORDER SUBJECT TO GENERAL TE.MS AND CONDITIONS OF ATTACHED PURCHASE SUPPLEMENT NO ARC-154-1

SCHENECTADY, NEW YORK 12301

FUNDING: 4-31

10 FITS ORDERED SHOP ORDER NO VENDOR CODE M.R. NO. a26678 13/64 Various 4711

SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE

PURCHASE ORDER NO.

Metals & Controls. Inc.

P.O. Box 898 Attleboro, Messachusetts

TWX 518-556-2393

TELEPHONE 393 - 6611

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 E.O. R. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BLL

HIP VIA F.O.1 DO-E2 Certified under Het/30 Shipping Point Most Economical Way DMS Rea. 1 ORDERED FOR EQUESTED ON SITE DELIVERY DATE BUYER BLDG E1-201 (AMohrmore) & See Notes C & H unlim R. G. Townsend

NET TOTAL DELIVER TO QUANTITY UNIT DISCOUNT (BUILDING) (ROOM) Perform evaluations of Fuel and Poison elements in accordance with the following requirements. evaluations are to be performed only as specifically requested from time to time by KAPL on individual Work Authorizations described in Note C below. Section, mount, polish and evaluate in accordance with Item 4 of Technical Supplement L-1, Revision 1 deted May 14, 1963. Price: \$91.00 per single zone element. In addition, KAPL will pay the Seller a start-up charge of \$245.00 for the first element requiring this Item 1 (Item 4 of Technical Supplement

> 2. Layout and section in accordance with General Electric Drawing B-SA4641. Price \$50.00 per element.

L-1) evaluation under this purchase order.

3. Mount and polish samples from Item 2 of this order in accordance with Specification L-500 Standards B, C, D, E, and F, Revision 1 dated 3/20/64. Price \$42.00 per semple.

THIS ORDER CONSISTS OF ____FOIR:

___ PAGES ÂUTOMATIC

GENERAL (SA) ELECTRIC

AUTHORIZED CLASSIFIER

9-23-61

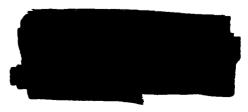
DATE

RECEIVED

OCT 1 5 1964

T. W. KISSINGER





AP 444-C (11-61)REV.

___ PAGES.

VENDOR Metals & Controls, Inc.

_ purchase order no. <u>6789-</u>

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EXPENSE #

REPRODUCED AT

- 4. Evaluate metallographic samples from Item 2 of this order in accordance with Specification L-500 Standards B, C, D, E, and F, Revision 1 dated 3/20/64. Price \$147.00 per sample.
- 5. Fracture and evaluate ten (10) traverse samples in accordance with L-500 Standard A, Revision 1 dated 3/20/64. Price: \$30.00 per lot of 10 samples.
- 6. Count grids to be furnished by KAPL and record data on grid sheets (no evaluation of data is required). grace: \$46.00 per sample.
- 7. Evaluate medallographic mounts to be furnished by KAPL, in accordance with Specification L-500 Standards, Revision 1 dated 3/20/64 as follows:
  - a. Standard B. Price: \$25.00 per mount.
  - b. Stendard C. Price: \$13.00 per mount.
  - c. Standard D. Price: \$16.00 per mount.
  - d. Standard R. Price: \$13.00 per mount.
  - e. Standard F. Price: \$78.00 per mount.
- 8. Layout, section, mount, and polish samples in accordance with General Electric Drawing B-8A4640, Revision A dated 8/4/64. Price: \$110.00 per sample.
- 9. Evaluate samples from Item 8 of this order in accordance with Specification L-500 Standards, Revision 1 dated 3/20/64. Price \$168.00 per sample.
  - 10. Layout, section, mount, and polish samples in accordance with KAFL Sectioning Drawing, Figure 3, entitled Price: \$106.00 per sample.
  - 11. Evaluate samples from Item 10 of this order in accordance with Specification L-500 Standards, Revision 1 dated 3/20/64 and special instructions stated on KAFL Sketch, Figure 3, entitled \$198.00 per sample.
  - 12. Leyout, section, mount, polish, and evaluate metallographic samples in accordance with KAPL Sketch No. RGT 12064 entitled Price: \$132.00 per sample.
  - 13. Layout, section, mount, and polish metallographic samples in accordance with KMFL Sketch entitled "Figure IV Price: \$90.00 per sample.
  - 14. Evaluate samples from Item 13 of this order in accordance with Specification L-500 Standards, Revision 1 dated 3/20/64 and special instructions stated on KAFL Sketch Frigure IV Price: \$1.72.00 per sample.

SUTAL COST - NOT TO EXCEED \$13,000.00

# PURCHASE ORDER KNOLLS ATOMIC POWER LABORATORY

THREE OF FOUR

PAGES.

VENDOR Metals & Controls, Inc.

PURCHASE ORDER NO. 6789-A

EXPENSE # 18

200

NOTE A: Legout the consider of Items 2, 8, 10, 12 and 13 of this order include radiography, or other equivalent techniques, sufficient to locate the consideration of the sectioning.

NOTE B: Applicable Documents - The following documents are applicable to the work of this order and are hereby incorporated herein by this reference thereto:

- 1. "Technical Supplement L-2", Revision 1 dated May 14, 1963.
- 2. Specification L-500 entitled "Fuel Assemblies 2", Revision 1 dated 3/20/64.
- 3. "Revils Andrew Fower Laboratory, Government-Furnished Zircaloy Material" dated 2/1/54.
- 4. "Realis Atomic Power Laboratory, Government-Furnished Uranium Material" dated 10/14/63.
- 5. General Electric Drawing B-84-4641.
- 6. General Electric Drawing B-84 4640, Revision A dated 8/4/64.

7. 8. 9.

NOTE C: Work Authorizations - Each Work Authorization issued under this purchase order shall:

- 1. Be issued and signed by the Manager of Furchesing, Enolls Atomic Power Laboratory, or his authorized representative.
- 2. Contain the following information:
  - a. Identification by date, serial number, and reference to this purchase order.
  - b. Description of the work to be performed.
  - c. Cost of the work.
  - d. Completion date of the work.
  - e. Government property to be furnished by KAFL.

NOTE D: General Electric will furnish the following items of Government Property for use by the Seller in equaction with the work of this Furchase Order:

1. The provisions of Article 9 of Purchase Order Supplement No. AEC-164-1 extitled "Government Property" apply

*A # ## C (11-31)REV.

VENDOR METALS & CONTROLS, DEC.

PURCHASE ORDER NO. 6789-A

REPRODUCED AT GOVT EXPENSE # 18

- 2. If Seller determines that additional elements are required by him to complete the work of any Work Authorization issued hereunder. and KAPL concurs in such a determination, Seller may purchase additional from KAM, at Seller's expense, at a price of \$1800 each. In the event that KAPL determines it to be not in its and Government's best interest to supply such additional property when it is required by the Seller, the Seller shall be obligated to obtain any additional elements at his expense and to certify to KAFL so acquired are identical in all respects that the elements to the & Shaws Turnished by KAPL for the work of the Work Author Jon.
- Seller shall return to KAPA all quantitative results, pieces of elements metallographic mounts, and radiographs upon completion of the Work or each Work Authorization.

NOTE E: All evaluation results shall be recorded on the forms specified in "Technical Supplement L-1", Revision 1 dated May 14, 1963, and reported to KAPL in three (3) copies. Said forms will be furnished by KAPL.

MOTE F: Seller shall not be required to furnish any photographs.

NOTE G: The personnel, procedures, and inspection methods now being utilized by the Seller for comparable work are acceptable to KAPL for the work of this order.

NOTE H: Completion and Delivery Dates:

- 1. We work Authorization shall be issued under this Purchase Order subsequent to September 30, 1965.
- 2. All test evaluation results shall be delivered to KAPL within 7 calendar days after receipt of test elements by the Seller except that corrosion penetration results shall be delivered to EAM within 25 calendar days after receipt of test elements by the Seller.

#### NOTE I: Nuclear and Radiological Health & Safety

- 1. All work performed under this order involving Special Burleyr Material shall be performed in accordance with the requirements of a Special Bucker Material license which shall be obtained by Seller (or lower tier subcontractor if such work is to be performed by a lower tier subcontractor) under the provisions of Title 10 of the Code of Federal Regulations.
- 2. Seller agrees to insert the foregoing Paragraph 1 and this Paragraph 2 in all lover tier subcontracts.

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# SHIPPING REPORT KNOLL ATOMIC POWER LABORATORY

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#### PURCHASE ORDER

1.

LEX 014 - 521 TWX 518 - 556 - 2393 EA CODE 518 TELEPHONE 393 - 6611

P.O. BOX 1072

PURCHASING

SCHENECTADY, NEW YORK 12301

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

ÉS^TATOMIC POWER LABORATORY

SHOP ORDER NO.

M.R. NO.

DATE ORDERED

VENDOR CODE

1711

SHOW NPD NO. ON ALL PACKAGES
AND CORRESPONDENCE

NPD 6789-A

Amendment No.

PURCHASE ORDER NO.

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

SHIP TO: KNOLLS ATOMIC POWER LABORATOR

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

IIS ORDER SUBJECT TO GENERAL TERMS AND CONDITIONS OF ATTACHED PURCHASE SUPPLEMENT NO. AFC-164-1 FUNDING: W-31 UNIT NET TOTAL QUANTITY LINIT DELIVER TO: DISCOUNT ( BUILDING) Purchase Order NPD 6769-A issued under date of October 12, 1964 is hereby amended as follows: A. The last word in Items 3, 4, 6, 8, 9, 10, 11, 12, 13, and 14 is changed from "sample" to B. The last word in Items 7s through 7e is changed from "mount" to "plate". C. The following Items 15, 16 and 17 are added to the order: "15. Metallographically evaluate, in accordance with Specification L-500 Standards, Revision 1, dated 3/20/64, the following mounted and polished samples

seven samples.

THIS ORDER CONSISTS OF __

PAGES

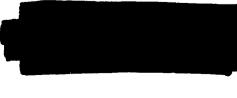
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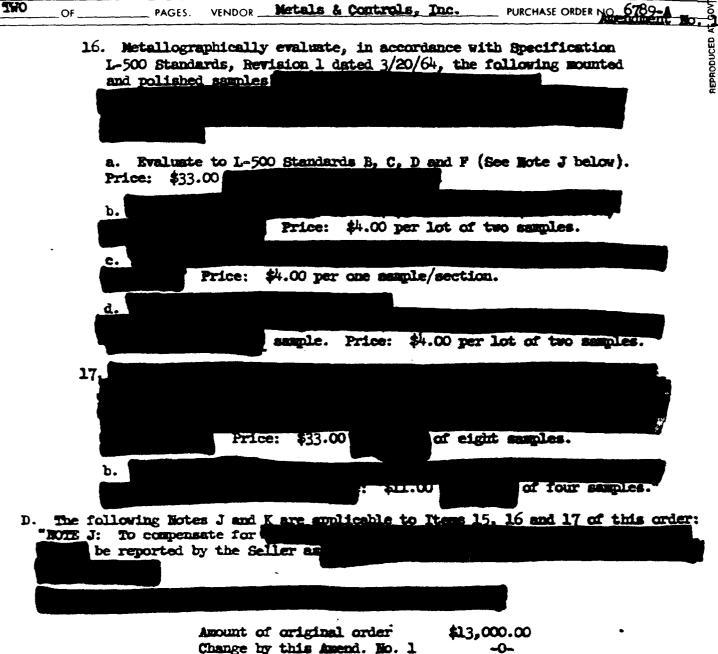
DEC 23 1964

GENERAL 🍪 ELECTRIC

T. W. KISSINGER







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

Amount of revised order

\$13,000.00

CONFIDENTIAL

X

10:35

D. W. SHORT, DIRECTOR MATERIALS DIVISION, NR-SNR P.E. BOBE FOR D.W. SHORT

JANUARY 20, 1965

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

REURIT OF 1/19/65 REQUESTING APPROVAL TO SHIP TO KAPL AS CLASS III VIA M AND C EXCLUSIVE USE TRUCK:

- 1. THREE CONTAINERS, BE-1518, SECTIONED ELEMENTS AND MOUNTED SAMPLES, CONTAINING A TOTAL OF 340 GRAMS U-235.
- ONE CONTAINER, BE-1518, ENRICHED FUEL, CONTAINING 1,123 GRAMS U-235. AUTHORIZATION HERBBY GRANTED TO MAKE SHIPMENT IN ACCORDANCE WITH DETAILS STATED IN YOUR TWX.

RECEIVED

cc: J.J. Coomes, KAPL - Mailed

J.H. Barry, MR-SMR

P.F. Schuster, NR-SNR

P.E. Bobe, NR-SNR

JAN 2 1965

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MPD-6789

JAN 23 1965

WM. J. GALLAGUET

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MREM/HR AT I METER**									
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MREM/HR AT 15 FT.** INCL	•	25356	1						
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+ 45 1264 (12-61) Rev

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MREM/HR AT 2 INCHES** INCL.	IDENTY	GROSS WGT.	NET WGT.	WGT	5	% U	ELEM. WGT.	% ENR.	ISOTOPE WGT.	PROJECT NO
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MREM/HR PENETRATING	RB910	1	25162	25164			_028_			SNR40700-00
MREM/HR AT 1 METER**		2	25165	-25167						
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MREM/HR AT 15 FT.** INCL		3	1	1						
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MREM/HR PENETRATING		5	25174	25176						
FROM OUTER SURFACE OF CONTAINER		6	25177	25179						
UTER SURFACE CONTAMINATION		7	1	25182						
c/m BETA GAMMA AT 1"			1	1.						
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# SHIPPING SAMPLES TO MAC FOR EVALUATION ON NPD 6789A

August 26, 1965

W. J. VanNatten Bldg. E-1, 201 KAPL Site

KAPL has been unable to send metallographic samples containing uranium to M&C under subject evaluation contract because of a recent SNRO ruling, which requires shipments from KAPL to be made against vendor's license.

KAPL has now expressed willingness to pay shipping charges, and to assume financial responsibility for shipments. MAC has been asked to requote on this basis and an answer is expected on 8/27/65.

This shipping problem has now held up shipment of these samples to M&C for about two weeks.

R. G. Townsend

NCO Product Evaluation

Tate Transit

RECEIVED

AUG 27 1965

J. J. COOMES

x 614-621 TWO STR-LIFE 0310 CODE STR TELEPHONE ON-601

# KNELIS ATOMIC POVIER LABORATORY

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P.O. BOX 1072

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- 18. MATS PACE CHAIR CH DO-52 Certified under Part hearmied at HIS ORDER SUBJECT TO GENERAL TERMS AND CONDITIONS OF ATTACHED PURCHASE SUPPLEMENT NO. QUANTITY DELIVER TO UNIT Parolese under 1881 of the Lescon ander eate of Jutobor Mi, high, as anomica to date he heroby further arranded as follows: 1. The phrase T.O.D. Shipping Point" in the heeding of the order is deleted in its entirety. The Sollowing Note I entitled "Elignents" in edited to the ember. "lute L - Diocente: I'v the extent chipments ands unfor this order full within the limits of the currently approved Soller's confuinces, all chipments of epocial moleur, cource, or my-graduet natorial nucle under this order about be under the provisions of Soller's License issued by the .MC Division of Licensing and Regulation and Soller is designated as the chimps of all Government-Paradalical autorial trunsferred to and from his plant under this

GENERAL ( ) ELECTRIC

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THIS ORDER CONSISTS OF _ _ _ PAGES.

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- W. Titus shall re al. 10 do Governace, is accordance whole Article 5 of jurchase error ಪಿಚ್ರಾಮಿಯ ್ಯ ಪಿಸಿ ⊥ ಹಿ−1.
- 3. KaPk will reinderne to a Soller for each of transportation of Govt-formicises t storical to and the challer's plant. Said cont shall inche's all copur accordence with the ship on anchaling the shipmout of required empty consciners than Saller's plant to KOPI for ase in the shipment.
- t. Seller shall aposify currier, routing, and shipment classification for all shipments of Government-furnished motorial to and from his plant. KIPL will request approval and obligating insuractions from Mr. M. Weiss, Moulls & Controls, prior to any chipment.
- 5. The financial rich of loss for Government-furnished material while in transit to or from Seller's plant shall remain with the Government. Cost and responsibility ubumibulable to welge due to unavailability of containers remains with NAD."

Alcant of Original Order	\$ <b>1</b> 3,000
Arondment No. 1	Ũ
Glendment No. 2	0
Thanged by this Amendment Lo. 3	e
Amound of Revised Order	\$13,000

all terms and conditions of the original order are to r sai in force and offect except as specifically was to be cit.

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MREM/HR AT 1 METER**	RB 949	1631					97.7	59.0	SNR 40700-00
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ATTENTION: W. Holburn/R. Geno	ne		PREPAID	COLLEC	T VALU	<del>E MAC-]</del>	ORDER	☐ A.E.C	. COURIER
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R. Honeyman  HIPPING DOCUMENT NO. DATE OF SHIPMENT  C-27615		CARRIER		BIL	L/LADING N	O. SIG	NATURE OF	TRAFFIC	DA
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MREM/HR AT 2 INCHES** INCL.	IDENTY	GROSS WGT.	NET WGT.	WGT.	% U	ELEM. WGT.	% ENR	ISOTOPE WGT.	PROJECT NO.
MREM/HR PENETRATING	7 Mts	14:	25.0			9.01	97-7	8.50	SNR 40700-0
MREM/HR AT 1 METER**	Mt. No:	26551	thru 26	5567					
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MREM/HR AT 15 FT.** INCL	3 Mts		75.0			1.59	97-7	1.50	SNR 40700-0
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D. W. SHORT, DIRECTOR MATERIALS DIVISION, SNR

**SEPTEMBER 17, 1965** 

SUBJECT: SHIPMENT OF MOUNTS AND WELLMENTS - PURCHASE ORDER NPD-6789-A.

M & C'S INSTRUCTIONS FOR THE SHIPMENT OF TWENTY (20) MOUNTS AND THREE

(3) WELLMENTS HAVING A COMBINED U-235 CONTENT OF 187 GRAMS, F.O.B. KAPL

UNDER M & C LICENSE, AS DESCRIBED IN YOUR TWX TO SHE DATED 9/16/65, IS

ACCEPTABLE TO SHE. KAPL WILL NOTIFY M & C OF THE APPROXIMATE TIME OF

ARRIVAL.

M. WEISS, METALS AND CONTROLS, INCORPORATED, ATTLEBORO, MASSACHUSETTS

cc: J. J. Coomes/W. J. Gallagher, KAPL - Mailed J. H. Barry, SRR

RECEIVED

SEP 20 1965

J. J. COOMES

AEC KAPL SCH

TEXINSMC ABOR
9-16-65 440 PM EDT

ATTN W GALLAGHED

965 SEP 16 PM 4:5

SUBJECT PURCHASE ORDER NPD 6789-A

APPROVAL IS HEREBY GRANTED FOR KAPL TO ACT AS M & C'S AGENT IN
SHIPPING SPECIAL NUCLEAR MATERIAL TRANSFERRED UNDER THE SUBJECT
PURCHASE ORDER IN ACCORDANCE WITH THE FOLLOWING PROCEDURES

- 1. SHIPMENT WILL CONSIST OF TWENTY MOUNTS AND THREE WLEMENTS HAVING A COMBINED U-235 CONTENT OF 187 GRAMS
- 2. SPECIAL NUCLEAR MATERIAL WILL BE PACKAGED IN AN ICC SPECIFICATION 15A 15B 19A OR 19B WOODEN TOP BOX.
- 3. KAPL WILL ACT AS M & C'S AGENT IN LABELLING THE CONTAINER IN ACCORDANCE WITH ICC REGULATIONS
- 4. SHIPMENT WILL BE MADE BY EXCLUSIVE USE VEHICLE, AUTHORIZED COURIER, OR BY A CARRIER WHO HAS SIGNED A NON-COMMINGLING CERTIFICATE.

SUBJECT TO THE ABOVE CONDITIONS KAPL IS AUTHORIZED TO SHIP THE SPECIAL NUCLEAR MATERIAL WHEN M & C LICENSE SNM-23.

N WEISS

METALS AND CONTROLS INC

CORRECTION: NO. 2 LAST WORD SECOND LINE SHOULD READ WOODEN TOP NOT BOX///XXXXXXXXX IT SHOULD READ BOX NOT TOP

AEC KAPL SCH

M

REPRODUCED AT GOV'T EXPENSE # 18

_ **4

March 2, 1966

The General Hanger

of the france Posts of Tetary

of the Constant

Schenectary, New York

Dear Sir:

Reference is made to your letter of Pebruary 15, 1966; Symbol, MC-427, wherein you requested verification of the vendor's Uranium Utilisation Sahebule for MPD-6789.

The data on the ventor's schedule has been confirmed and we find no discrepancies in the schedule.

The above information is farmished so that KAPL our proceed with the final close-out of the above-mentioned purchase order.

Year truly yours,

B. W. Short, Eirector Interials Mivision

ee: J. K. Gingrich

#### Completion of Order NPD 6789

March 11, 1966

Mr. G. A. Mohrmann Building A4 KAPL Site

KAPL Order NPD 6789 has been completed and approval to close out the order has been given by ARC/SNR. No loss of fuel occurred; therefore, the order is now closed out.

T. W. Kissinger Euclear Core Materials Control EUCLEAR CORE OPERATION

TWK: Lap

REQU	) E 3	LOK	SHIPM!			MAII	CKIAL	5	ρÞΙ
SHIP TO			CLASS	IFICATION OF	MATERIAL	_U, J	Α.	E.C. 101 FORM N	10.
Metals & Controls Inc.			D.	Unclass	ified DATE	SHIPMENT	100	KZA-KA	
M&C Nuclear Products G	מנוסי		AT	18/64	DE	18/64	M2		I.C.C. CLASS
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Attleboro, Mass.				RM AT'L.	TAL ALL	OY	DE WAST	E SOLUTION	OTHER &
·			CONT				TO BE		RETURNED CONDITION
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HIPMENT Excl. truck  URPOSE OF SHIPMENT			x	NUCLEAR SA	\$50		3R305	SIGNATURE	COURTER ESSEPTIGER OF SECURITY:
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As received from vendor	's 101	<u> </u>			.epooot	•	. (	// //	/ /
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C required/Do not open	i in ti	ECTION MGR.		BLDG.	EXI		SEND COPY OF	SHAPING DOCU	MENT TO
RI. Fox		W Bedf	ord	C	14	219	HS D	orr	
PAGE 1 01 2		CARRIER		81	LL/LADING N	O. SIG	GNATURE OF TR	RAFFIC	DA
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0 0	I AM	GRAMS	DESCRIPTION		- Or	SIT	KIND	FIC 8/	18/64
EXTERNAL RADIATION									€ -U 233 -U 235
MREM/HR AT 2 INCHES** INCL.	IDENTY	GROSS WGT.	NET WGT.	WGT.	% U	ELEM. WGT.	% ENR.	ISOTOPE WGT.	PROJECT NO.
MREM/HR PENETRATING			124.583			124,5	16	116.000	SNR40702-0
MREM/HR AT 1 METER**	8 bir	dcages							
NCLMREM/HR PENETRATING			-2105. 20	2-10F0	49-216	o			
MREM/HR AT 15 FT.** INCL	49-23	7.,	1		-				
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MREM/HR PENETRATING							-		
** FROM OUTER SURFACE OF CONTAINER									
OUTER SURFACE CONTAMINATION									
c/m BETA GAMMA AT 1"									
d/m ALPHA 14 SQ. INCH									
NSTRUMENT SMEAR URVEY SURVEY									
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## GENERAL (S) ELECTRIC

## RECLIVED

SEP 9 1964

#### PURCHASE ORDER

1.1

#### KNOLLS ATOMIC POWER LABORATORY

PURCHASING

TELEX 014-521 AREA CODE 518 TWX 518-556-2393 TELEPHONE 393-6611

P.O. BOX 1072

SCHENECTADY, NEW YORK 12301

						GOVERNMERT CONTRACT W-31-1		PURCHASE (	ORDER NO
	SHOP ORD	ER NO.	M.R. NO.	DATE ORDERED	VENDOR CODE	SHOW NPD NO. ON AI		NDD	507-2
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GENERAL ( ELECTRIC

actale & Controle, Inc.

PURCHASE ORDER NO. 6507-D

Terms and Company of the actions (continued)

. 18 .

#### F. (continued

If addition i transport or Miroslay Chop Stock is required by Seller to complete the tork, and the Government's treatment to be in KAPL's and the Government's treatment to be added to added to an educational Uranium and Zircaloy Chop Stock can te and in the first will be selder's expense at a price of \$8.69/1b (Zirc) and \$57.60/kg (Granning). In the event it is determined by KAPL to not be in its and the Government's pest interest to supply such additional property when required by Saller Seller shall be obligated to obtain any additional property at his expense and further to certify that the Seller acquired property amend all equirements of the order, or if no requirements are so stated in and order, the Seller shall certify that the Seller acquired property is identical to all respects to the first supplied KAPL property.

EAT! estimates that the above listed material will be shipped to Seller on nore the 12 week after receipt of order; however, KAPL does not guarand the standard of this estimate.

ernment Property" is hereby modified as follows:

remarkans shall apply to the recertification of and the controls shall cover, but not be method of identification, quantity and - Tyromed if any.

is the same quality as supplied and 

> processing records, test data, if any, in ord performed, and certify the quality . ... reterial.

The second shall be in accordance with Quality . ... S.-R Hev. 4.

#### ADT - Regulation The Scillous:

who were or performance dates for the supplies or services 11 so done it is So ther under this order are based upon the was mient-frammished Property suitable for use a wered to Seller at the time stated in this order, or circo the to enable Seller to meet in the event that Government_ and the Soller by such time or which is all timely written request made when actury cacasioned Seller er are the delivery or performance and the same contractual provision

The second of the procedures pro-- ditions entitled

#### KNOLLS ATOMIC POWER LABORATORY

PAGE 6 OF 6 PAGES. VENDOR Metals & Controls, Inc. Purchase Order NO. 6507-D

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

#### F. (2) (continued)

In the event the Government-Furnished Property is received by Seller in a condition not suitable for the intended use, Seller shall, upon receipt thereof, notify General Electric of such fact and, as directed by General Electric either (1) return such property at General Electric's expense or otherwise dispose of the property, or (2) effect repairs or modifications. Upon the completion of (1) or (2) above, General Electric upon written request of Seller shall equitably adjust the delivery or performance dates or order 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 the Article of these terms and conditions entitled CHARMES."

#### 5. Quality Control Requirements

Quality Control Specification 8-3, Rev. 4 dated 11/20/63 - the following paragraphs shall apply:

1, 3.1, 3.2, 4.1, 5.1, 6.0 a thru e, 6.1, 6.3, 7.1, 8.1, 8.2, and 8.3.

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

#### KNOUS ATOMIC POVIER LABORATORY

P. O. BOX 1072 SCHENECTADY, NEW YORK 12301

AREA CODE 518
TELEPHONE 878-6611
TV/X 518-556-2393
TELEX 014-521

PAGE 1 OF 1

Date:

September 18, 1964

To:

M & C Nuclear, Inc.

P.O. Box 898

Attleboro, Massachusetts

Affention: Mr. J. White

Subject: Order No. NPD 6507-D - APPROVAL OF QUALITY CONTROL PLAN Information to Yendor No. IV #4

Reference:

The Quality Control Plan required on this contract is approved. It is KAPL's understanding that sampling the contract is approved impurities was left out of the plan inadvertently and will be incorporated in it before such sampling is required.

M & C's AR #302:2 is attached hereto.

#### KNOLLS ATOMIC POWER LABORATORY

P. O. BOX 1072 SCHENECTADY, NEW YORK 12301

AREA CODE 518
TELEPHONE 393-6611
TWX 518-556-2393
TELEX 014-521

PAGE 1 OF 1

Date: October 15, 1964

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

Attention: Mr. J. White

Subject: Order No. NPD 6507-D INFORMATION to Vendor No. IV #7

Reference

We are returning the attached AR's as follows:

AR:MC:305:4 - Approved without comment.

AR:MC:305:5 - Approved without comment.

AR:MC:305:6 - Approved with comments as shown.

Cognizant Requester

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APPROVAL REQUEST			200		MC:305:4
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NO. MC:

REPRODUCED AT GOVT EXPENSE # 18

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TWX 518 - 556 - 2393

TELEX 014 - 521

#### PURCHASE ORDER

#### DLLS ATOMIC POWER LABORATERY

**PURCHASING** 

AREA CODE 518 TELEPHONE 393-6611 SCHENECTADY, NEW YORK 12301 P.O. BOX 1072 OPERATED BY THE GENERAL ELECTRIC COMPANY UNDER GOVERNMENT CONTRACT W-31-109-ENG, -52 PURCHASE ORDER NO. SHOP ORDER NO. DATE ORDERED M.R. NO. VENDOR CODE NPD 6507-D SHOW NPD NO. ON ALL PACKAGES 7443 R 305 IN AS 10/27/64 3611 AND CORRESPONDENCE mendment No. 1 Metals & Controls, Inc. 34 Forest Street SHIP TO: KNOLLS ATOMIC POWER LABORATOR Attleboro, Massachusetts WAREHOUSE BLDG. M-2 ATTENTION: Mr. J. White SCHENECTADY, NEW YORK BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS:) RENDER INVOICES IN DUPLICATE TO: FINANCE - ACCOUNTS PAYABLE (Hereinefter referred to as Seller) ON PREPAID SHIPMENTS F.O.B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL DO-E2 Certified under DMS Reg. 1 exclusive use of Seller's truck REQUESTED ON SITE DELIVERY DATE ORDERED FOR BLDG. A. N. Redfood THIS ORDER SUBJECT TO GENERAL TERMS AND CONDITIONS OF ATTACHED PURCHASE SUPPLEMENT NO. FUNDING: ATC 164 DELIVER TO: DISCOUNT NET TOTAL QUANTITY ITEM (BUILDING) (ROOM) Purchase Order EPD 6507-D issued under date of 8/18/64 is hereby smended for the purpose of adding Item 8 for the exclusive use of Seller's truck for delivery increasing the order price by a maximum of \$750 in consideration thereof and modifying the specification requirements at no change in price or delivery in accord suce with the provisions of Instructions 472H. Add Item 8 as follows: Transportation charges for delivery of Item 1 at \$75 per trip, maximum number of trips, 10. Total maximum amount of Item 8 \$750.00 The total maximum order price amount of \$118,800.00 is hereby increased by \$750.00 resulting in a total revised maximum order price smount of . \$119,550.( Instruction 1 is hereby modified as follows:

THIS CONSISTS OF _

GENERAL

Delete subparagraph B in its entirety and substitute

in lieu thereof the following:

RECEIVED

PAGES.

OCT 29 1964

T. W. KISSINGER

### KNO AS ATOMIC POWER LABORATORY

Amendment No. 1

2 PAGES. VENDOR Metals & Controls, Inc.

PURCHASE ORDER NO. __6507

B.

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

#### Purchase Order Price Summary

Original Amount of Order		\$118,800.00
Increase by this Amendment No. 1		750.00
Revised Amount of Purchase Order	 •	750.00 \$119,550.00



REPRODUCED AT GOVT EXPENSE # 18

# P. Q. Box 1072 Schenectady, Now York 12301

age 1 of 1

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

Date: December 7, 1964

To: N & C Nuclear, Inc.

P.O. Box 898

Attleboro, Massachusetts

Attention: Mr. J. White

Subject: Order No. NPD 6507-D

Information to Vendor No. IV No. 12

References

AR: MC: 305:8 (attached) has been conditionally approved with the following comments:

KAPL also vishes to review next batch

Cognizant Requester:

Principles (1972) Principles			. 4.1	4
FORM FAR-S	. <del>.</del> .			- MD:305:8 / - Page 1 ox 2
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P. O. BOX 2072

SCHENECTADY, NEW YORK 12301

AREA CODE 518 TELEPHONE 393-661 TWX 518-556-2393 TELEX 014-521 PAGE 1 OF 1

BL # 3400 AT GOVT EXPENSE # 18

Date: December 30, 1964

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

Altention: Mr. J. White

Subject: Order No. NPD 6507-D Tristruction to Vendor No. IV 10A

REVISION OF ORDERING DATA DATED AUGUST 12, 1964, TO INCORPORATE THE REQUIREMENTS OF MCR-305:1 DATED NOVEMBER 18, 1964

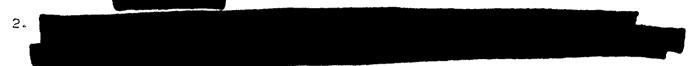
Reference

M & C is instructed to use the attached ordering data, Rev. 1, dated 12/30/64, in place of the subject ordering data. This changes the requirement under Item 5, page 2, elements

Note IV #10 is hereby rescinded.

Cognizant Requester: MNRasford

1. This Ordering Data describes the technical requirements for wrought uranium - zircaloy

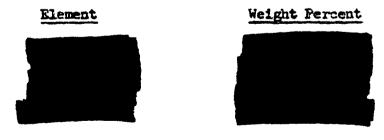


- 3. The following are required to be approved by KAPL prior to their use on this order:
  - a) Process outlines for all phases of the work
  - b) Sampling plans for chamistry quality control
  - c) Inspection plans for dimensional quality control
  - d) Packing and shipping of finished parts
  - c) Cleaning method and type of detergent used
  - f) Chemical Laboratories and analytical methods
  - g) Results of preproduction runs to demonstrate fabrication capability
  - h) Control limits for uranium chemistry and dimensions
  - i Surface roughness standards
  - j) Surface finish and workmenship standards

Deviations from approved plans must be approved by KAPL unless prior agreement is reached on the non-critical nature of certain operations or plans, which may then be changed without approval.

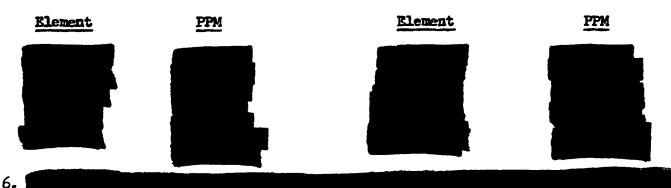
Approval of these plans does not relieve the seller of the responsibility of meeting the requirements of the order.

4. The finished product shall conform to the following chemical composition requirements (minus any uranium deliberately added):



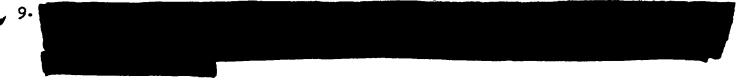
REPRODUCED! AT GOVT EXPENSE # 18

5. The impurity levels in the finished product shall not exceed the following



Metal die stamping is prohibited. Vibratool etching is acceptable, or other methods of marking may be used with approval of the contracting agency.

- 7. All surfaces shall be clean and visually free from oil, grease, dirt, scale, smut, corrosion products, salts, alkalies, acids, and mineral deposits.
- 8. Workmanship shall be first class. All material shall have a uniform surface that is free from scale, cracks, slivers, blisters, seams, laps, pitting, scratches, and foreign matter as revealed by visual examination to standards approved by the contracting agency before production release.

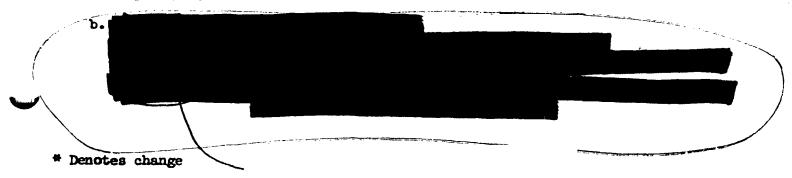


10. For sampling purposes, a lot shall consist of all material of the same condition fabricated from the same alloy ingot.

Unless otherwise specified herein, the sample size taken for determining Uranium by chemical analysis shall be no larger than 0.025 cubic inches. No dimension of the sample shall be greater than the alloy piece width.

The seller's control limits for Uranium loading shall allow for any uncertainty in chemical analysis.

- 11. Preproduction data shall be obtained from the first six consecutive ingots as follows:
  - a. A minimum of 10 Uranium analyses per ingot taken throughout the ingot at equally spaced intervals.



Ordering Data, REV 1
December 30, 1964
Page 3

The balance of the ingots shall not be produced until the results of the first six ingots have been accepted by KAPL.

Those pieces which meet the requirements of the order will be accepted as a part of the production quantity.

13.

5. The samples selected for analysis in accordance with Items 10, 11, 12, 13 and 14 shall be analyzed by a laboratory and by analytical methods approved by KAPL. If any sample does not conform to the approved control limits established to assure compliance with Item 11, the lot represented by that sample shall be submitted to KAPL for disposition.



- piece not in accordance with Items, 7 and 8 shall be subject to rejection.
  Surface finish shall be inspected and judged by visual comparator on 100% of the pieces.
- 17. KAPL Quality Control is required. When inspection by KAPL is required during the manufacture or testing, the seller shall provide advance notice of not less than 48 nours to KAPL.
- 18. Seller shall submit to KAPL a certification package as required by Quality Control Specification S-3.

19.

Ordering Data, REV. 1 December 30, 1964 Page 4

20. The vendor shall be responsible for establishing controls on all Government furnished materials while at his, or his sub-vendor's facilities for the purpose of facilitating recertification of material returned to the Government. These controls shall cover, but not be limited to, identification, method of identification, quantity, and degree of processing performed, if any.

The vendor shall, upon completion of the contract, return all excess material in the following manner:

- a. Certify that the material is the same quality as supplied, and that the original certification is still applicable.
- b. If the material was processed to KAPL approved processes, the vendor shall supply all processing records, test data (if any), a description of the work performed, and certify the quality level of the returned material.
- c. All accompanying paperwork shall be in accordance with Quality Control Specification S-3.

A.W.B./ts December 30, 1964

P. O. DON'T 1979

P. O. DON'T 1972

SCHEDELTADY, NEW YORK 12301

AREA COOP 518
TELEPHONE 593-659
TWX 518-536-2393
TELEK 014-521

Date: January 7, 1965

P.O. Box 898
Attleboro, Massachusetts

Attention: Hr. J. White

Subject: Order No. NPD 6507-D - REVISION OF ORDERING DATA DATED DECEMBER 30, 1964 Instruction to Vendor No. IV No. 15

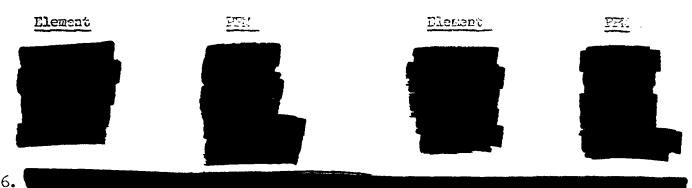
Reference:

M & C is instructed to use the attached Ordering Data, Rev. 2, dated 1/6/65. This changes requirements as outlined under item 11 b and adds requirements as outlined in the addition of item 11 c.

Cognizant Kequester All Best Land

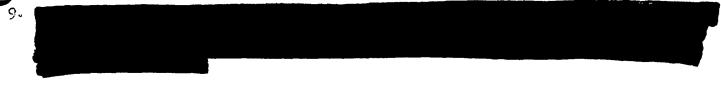
Ordering Data, REV. 2 January 6, 1955 Page 2

5. The injurity levels in the finished product shall not exceed the following



Metal die stamping is prohibited. Vibratool etching is acceptable, or other methods of marking may be used with approval of the contracting agency.

- 7. All surfaces shall be clear and visually free from oil, grease, dirt, scale, smit, corrosion products, salts, alkalies, acids, and mineral deposits.
- 8. Workmanship shall be first class. All material shall have a uniform surface that is free from scale, cracks, slivers, blisters, seems, laps, pitting, scratches and foreign matter as revealed by visual examination to standards approved by the contracting agency before production release.

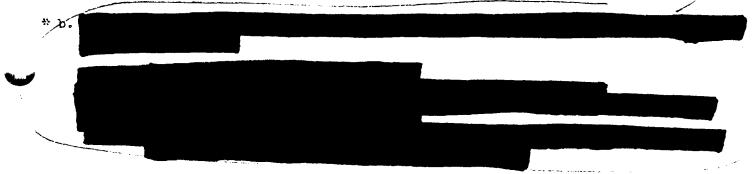


10. For sampling purposes, a lot shall consist of all material of the same condition fabricated from the same alloy ingot.

Unless otherwise specified herein, the sample size taken for determining Uranium by chemical analysis shall be no larger than 0.025 cubic inches. No dimension of the sample shall be greater than the alloy piece width.

The seller's control limits for Uranium losding shall allow for any uncertainty in chemical analysis.

- 11. Preproduction data shall be obtained from the first six consecutive (ingots) as follows:
  - a. A minimum of 10 Uranium analyses per ingot taken throughout the ingot at equally spaced intervals.



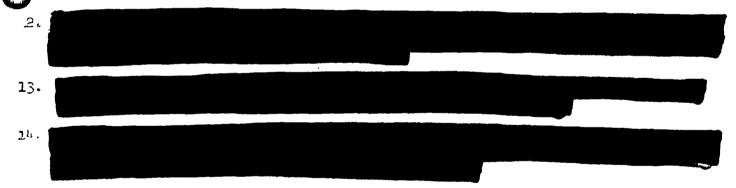
Ordering Data, REV. 2 nuary 6, 1965



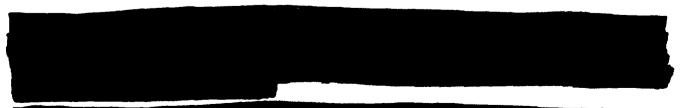
The balance of the ingots shall not be produced until the results of the first six ingots have been accepted by KAPL. The sampling plan for Uranium,

based on the results of a and b and c above.

Those pieces which meet the requirements of the order will be accepted as a part of the production quantity.



15. The samples selected for analysis in accordance with Items 10, 11, 12, 13 at 14 shall be analyzed by a laboratory and by analytical methods approved by If any sample does not conform to the approved control limits established to assure compliance with Item 11, the lot represented by that sample shall be submitted to KAPL for disposition.



piece not in accordance with Items 7 and 8 shall be subject to rejection. The state of finish shall be inspected and judged by visual comparator on 100% of the pieces.

6.

t-- -hanm

KEQU		rok A	3MIF IV	ELA I	Or 3		2.5	KIML		040	
SHIP TO 4.7	4		CLAS		OF MATERIAL		1 ,-		.C. 101 FORM	***	
Metals & Controls Inc.				DATE REQUIRE	sified of	ATE SHIPM	ENT	LOCA	ZA-KAB-	29 RIAL 1.C.C	. CLASS
Pro Nuclear Products Group				T DESTINATION		DESIRED	:	<b>M</b> 2		1	
On N. Barrer, Arra Florit			MAT UE <		ORY (CIRCLE 5 UN	ONE)	OTHER		AND NO. OF	CONTAINERS ##	,
g N Perry Ave Ext				ORM	METAL	ALLOY	OXIDE		1592   SOLUTIO	' /	
Attleboro, Mass.				MAT'L.		_ X	<u> </u>				
110 W 33				TRACT	(		:	TO BE RETURNED	<ul><li>□ YE5</li><li>□ NO</li></ul>	RETURNED COND	OITION OTHER
ATTENTION: WS Holburn AETHOD OF			PREPAI		6507	VALUE		ORDER	☐ A.E.C.		
HIPMENT EXCL USE VEHICLE				3	R SAFETY CER				KAPL M	OF SECURITY	<del></del>
				Nu	clear S	afety	App	roved		A / Com	w/18
Return rejected mate	FIRE			and	Inspe	ected			10/m/	gersel	
Mettler on halance									SIGNATURE	OF QUALITY CON	NTROL
Do not open in transit				He	alth Pr	ysics	DAI	re-		DATE	
		CTION MGR.		BLD		EXT.		ND COPY OF S	HIPPING DOCL	JMENT TO	
RL FOX HIPPING DOCUMENT NO. DATE OF SHIPMENT		Carper	iter		1 BILL/LADIN	4219 IG NO.		ATURE OF TRA	FFIC		DAT
25398 Pg lof2											
2-18-	65 cus	J. NOS	ks	- 1	p-84 receipt AB-KZA	<b>-</b> 27	ISIGN	JATORE OF KA	PURCHASING	2/19/	DAT U.S
ADJOLOGICAL SERVICES CONTORING INFORMATION	T		OF MEASURE		SIGNATURE-		RIAL DIVI	SION	July 1		DAT
	MATE	GRAMS	DESCRIPTION			1	post	<i>F</i> 1010	2/	19/65	
EXTERNAL RADIATION	MATE	NIAL .	DESCRIPTION			312		KIII	i.e.	□ −υ 233 □ −υ 235	
		GROSS	NET		%		LEM.	% ENR.	ISOTOPE		
MREM/HR AT 2 INCHES** INCL.	IDENTY	wgt.	WGT.	WGT.		- <b>-</b>	VGT.		WGT.	PROJECT	NO.
MREM/HR PENETRATING	<b>K</b> 710-3	<b>K</b> 711-	3, <b>K</b> 712	-1,2,3	·				·	<del> </del>	
MREM/HR AT 1 METER**	ļ. ———		3923		20.	<u>50 80</u>	4.22	93.148	749.11	SNR40702	<u>01-</u>
NCLMREM/HR PENETRATING						·				<u> </u>	
MREM/HR AT 15 FT.** INCL									· · · · · · · · · · · · · · · · · · ·		
MREM/HR PENETRATING										1	
** FROM OUTER SURFACE OF CONTAINER											
OUTER SURFACE CONTAMINATION											
c/m BETA GAMMA AT 1"											
d/m ALPHA 14 SQ. INCH				-							
STRUMENT SMEAR					_				<del></del>		
THER MONITORING RESULTS										<del>!</del>	
THER MONITORING RESULTS	TOTALS										
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			JGROSS WO	57.	ELEM. W	GT. <b>BO</b>	4.22		749.11		
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JRVEYOR'S SIGNATURE DATE	1						0	6	•		
ADIOLOGICAL SERV. SIGN. DATE					Ţ	I COOT	nes/	J-L	com	es 2/	17/6
*QUANTITY AUTHORIZED	10 PAT	£	See mi-	DO 5-0	UNIT	=	(	Ü.,	)RM		
*QUANTITY PREVIOUSLY			- Jur	mec	UNIT_				RM		
QUANTITY THIS SHIPME			749.11		_UNIT_	gı	ms	FC	RM		-
TOTAL	SHIPPED.		749.11		UNIT					. 6.46	<b>.</b>
SNRO COMMENTS AF - 3	, , , ,		, , , , , , , , , , , , , , , , , , , ,		_					289	7 🔻

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D ^ THER				3 SHEET	OF
J-Zr. Alloy	6 VENDOR/KAPL OF	ERATION:	7 ORDE	R/CONTRACT NO	B M.I.T. NO.:
1-2r. A 110g	Metales	Controls	MAI	6507	}
			+		
9 IDENTIFICATION:	OFCIETITIES DE	REV. 11 QUAN. SIZE:	12 MATE		
K710-3 K-111-3 K7	12-1,243 dited 12/301	/, · l	11/11/11	um Zirc	a love
<del> </del>					
13 FOR APPLICATION ON:	CONTRACT		TASK/JOB	NO	
ORDER DATA:	DWG./REV.		SPEC./REV	/. <del></del>	
104		<del></del>	14B DW	G., SPEC., STD., QUIREMENT:	ORDER
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KAPL DISPOSITION ACCEP-				OTHER, SPE	CIFY BY
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REMARKS/INSTRUCTIONS:		Destation	Ĺ	_	~
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		REQUIRES WELD, RE	VIEW BOAF	RD ACTION ]	TYES X NO
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	j	Alde	REVIEW BO	ARD	DATE /
		- June			2/16/67
		COGNIZAN	T ENGINEE	P	DATE
* DEGRADATION OF SPECIFICATION		SNR			
PROVIDE TECHNICAL JUSTIFICATION ABO		APPROVAL:			DATE
15 SHOP DISPOSITION:	REWORK TO REQUIREMENTS R	REPLACE	REQUES	DISPOSITION	
16 CORRECTIVE ACTION TAKEN TO	PREVENT RECURRENCE:				
		RESI	PONSIBLES	UPERVISOR	DATE
19 COST ESTIMATE	<del></del>	URCHASING INSTRUCTIONS	5/ 22 IN	SPECTED BY:	
MATERIAL KAPL O/	T KAPL RELE	EASE:	.		
LABORAEC O/H		for Mark	41		
DEPRECIATION TOTAL_	DAT	E PURCH, REP	· ]		
DISTRIBUTION: / FAULE H			<del>-   -   -   -   -   -   -   -   -   -  </del>	WORK INSPECTI	
ALITY CONTROL	6 (12)			RTIFICATION:	<u></u> -
<del>_</del>	· · · · · · · · · · · · · · · · · · ·		1)	ATTITICATION.	j
IANCE AC BILLE	<del>-</del>				
RCHASING JA NORTH	)		DATE:	ATTITION.	
COG.ENGINEER L	GOV'T INSPECTOR				DOR:
RCHASING JA NORTH	GOV'T INSPECTOR	115 OF KAPL QUALITY	26 RE		

D. W. SHORT, DIRECTOR MATERIALS DIVISION, SNR D. W. SHORT

3:35

MARCH 29, 1965

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

REURIT OF 3/26/65 REQUESTING APPROVAL TO SHIP APPROXIMATELY 7 KGS U-235, U-ZR

TO KAPL UNDER NPD-6507-D, PLUS APPROXIMATELY 39 KGS U-235 UNDER

NPD-5653-D. AUTHORIZATION HEREBY GRANTED TO MAKE SHIPMENT IN STRICT ACCORDANCE

WITH DETAILS OF YOUR TWX AND IN ACCORDANCE WITH SEPARATE TWX INSTRUCTIONS FURNISHED

YOU THIS DATE BY W. J. GALLAGHER, KAPL.

cc: J. J. Coames, KAPL - Mailed

R. Fox, KAPL - Mailed

J. H. Barry, NR-SNR

P. F. Schuster, NR-SNR

File: 1.1.5

NPD-6507 NPD-5653

Short:1r

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WM J GALL CHER

W. !

TWH

MPD 6507/

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1151 20 4 14 hi

**(** .

AEC-SNR SCH

TEXINSMC ABOR

3-26-65 359PMEDT

ATT MR D W SHORT

REFERENCE LETTERS DATED 11-25-64 AND 2-16-65 - D SHORT TO W HOLBURN.

CONTAINERS ENRICHED UZR CONTRACT NPD-6507-D WITH EACH CONTAINING APPROX 7 KGS U-235, PLUS 15 DRUMS EU FOIL, CONTRACT, NPD-5653-D PACKED PER INSTRUCTIONS IN SUBJECT LETTER. SHPMT TO BE MADE VIA OUR TRUCK ACCOMPAINIED BY AEC COURIER ON BY A E C COUIER ON THRUSDAY, APRIL 1, 1965. SINCE THIS SHPMT IS BEING MADE F D B ATTLEBORO KAPL WILL SUPPLY THE NUCLEAR SAFETY EVALUATION.

PER TELECON THIS DATE WITH JOHN BARRY /SNRO/.

WALLACE S HOLLURN MEALS AND CONTROLS INC

FOR Vendors Plant

.EX 014-521

**EA CODE 518** 

70

#### **PURCHASE ORDER**

P.O. BOX 1072

464 - B (10-63) REV.

TWX 518-556-2393 TELEPHONE 393-6611

#### KNOLLS ATOMIC POWER LABORATORY

PURCHASING

SCHENECTADY, NEW YORK 12301

OPERATED BY THE GENERAL ELECTRIC COMPANY UNDER GOVERNMENT CONTRACT W-31-109-ENG52							
		DATE ORDERED	VENDOR CODE	SHOW NPD NO. ON ALL PACKAGES AND CORRESPONDENCE	PURCHASE ORDER NO.		
SHOP ORDER NO	M.R. NO.				NDD		
	IV 21	4/14/65	13011		NPD 6507-D		
Metals an	d Controls	Inc.			Amendment No. 2		

34 Forest Street

Attleboro, Massachusetts ATTENTION: Mr. J. White

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

(Hereinafter referred to as Seller) ON PREPAID SHIPMENTS F.O.B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL DO-E2 Certified under DMS Reg. 1

QUESTED ON SITE DELIVERY DATE BLDG. BUYER R. C. Bisbee/cb A. W. Bedford 120 C-1

15 (	ORDER SUB	JECT TO	GENERAL TERMS AND CONDITIONS OF ATTACHED PURCHASE SUPPLEMENT NO.	FUN	DING:	
M	QUANTITY	UNIT	DELIVER TO: ( MULDING) ( ROOM )	UNIT PRICE	DISCOUNT	NET TOTAL
			Purchase Order EPD 6507-D issued under date of 8/18/60 as amended to date is hereby further amended for the purpose of exercising option Item 7 and modifying Item 6 accordingly, increasing the order price by a net amount of \$715 in consideration thereof.			
			Delete Item 6 in its entirety and substitute in lieu thereof the following:		 	
			Scrap recovery and continuency to cover all losses related to Items 1 and 7.			\$19,140.0
			Delete option clause on page 2 in its entirety.		:	
1			Add Item 7 as follows:			
	55	CB.	Same as Item 1 meeting all order requirements.	\$125/ee	1	\$ 6,875.0
			The total order price amount of \$119,550.00 is hereby increased by \$715.00, resulting in a total revised order price amount of		e c .	\$120,265.

THIS COOPE CONSISTS OF ___

PAGES.

GENERAL (%) ELECTRIC RECEIVED

APR 16 1965

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J. J. COOMES

AFR 16 1965

7. W. KISSINGER

Metals and Controls, los.

FAGES. VENDOR	
All other terms and conditions of the original force and effect except as specifically amend	
Purchase Order Price Summary:	
Original Amount of Order	\$118,900
Increase by Previous Amendments	750
Increase by this Amendment No. 2	715
Revised Amount of Purchase Order	\$120,265

NPD 6507

AEC SNRO KAPL METALS AND CONTROLS INC 617-222-1259 6-23-65 203 PM EST ATL MASS

T W KISSINGER KAPL

REF YOUR PHONE-CON REQUESTING UTILIZATION SCHEDULES FOR 6507

- & 6820. WE ARE CURRENTLY PERFORMING COMPLETE FUEL INVENTORY
- & WILL TRANSMIT REQUIRED

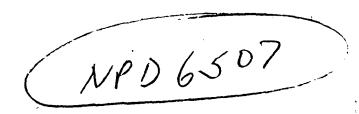
J WHITE

CONT ADMIN

END ELLIE

NPD6507 9/20/65- Called M+C of sery separany. R. White out. Taske to check with their accountability & procurent pefl obout the Will allow status 9/23/65- Colled J. White - To check status + advise. called I whit - no defints arour - to recker with manage a to status and will advise

AFC SNRO YAPL



METALS AND CONTROLS INC ATTLEBORO MASS OCT 4

T J'KISSINGER

PEF PO 6507 AND PO 6820 PLAN TO HAVE SCRAP FROM BOTH ORDERS

J WHITE CONT ADMIN

RECEIVED

OCT 5 1965

I. W. KISSINGEK

CHMMUVVVVVVV -

n

10/27/65. Called I what m+c

se NPD 6507 and 6820. Control for

reprocessing has been let-Will check

for shipment of motherial + reprocessing schedul.

83.309

NPD6507

AEC SNRO KAPL

METALS AND CONTROLS INC. 10-27-65 300P EDT ATL MASS

я 001 N

PL TELE

TO T KISSINGER

REF PO NPD 6507 AND PO NPD 6820.

RECLAIM ORDER PLACED WITH NFS MATERIAL IN PROCESS OF BEING TRANSPORTED AND WILL BE COMPLETED WITHIN NEXT 2 WEEKS. WE ARE LEMITED IN AMOUNT PER SHIPMENT. RECLAMATION WILL BE COMPLETED 60 DAYS AFTER RECEIPT OF MTL.

J WHITER

END ROGER

0

(NPD 6507) + 6820 M+c Mulear Anc
On 1/13/66 J. What was called concerning
status of there orders. He stated he would
check it out and adors late today.
1/14/66- Called J. White of his Twx stating would
be 1-2 mo. if results were not in
ogreenest. I cop for been returned to AEC
Will suffly cofur of HEC 101's.

NPD 6507

WEC SUBO KAPL

METALS AND CONTROLS INC. 1-13-55 150P SET ATL MASS TO TOM KISSINGER KAPL

PEF PO NPD6507 AND 6820. RECLAMATION HAS BEEN COMPLETED BUT DO NOT HAVE VALVES YET THEREFORE HAVE NOT DETERMINED IF ANY DIFFERNCES. ESTIMATE 1 TO 2 MONTHS.

J. WHITE

FND ROGER

O

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9:45 AM - 3/24/66- Called J what on status of NPD 6507 and NPD 6820. Will Clerk it out and admis.

2: 00 PM - 3/24/66- I Whate called all fuel recovered and ititization a children should be ready within a couple of weeks. The have well figures as for

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- · · · · -

R.C. Diebee

Interim Utilization Schedule - NPD 6507 - Metals & Controls Inc.

April 28, 1966

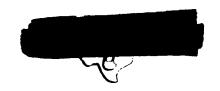
Mr. G. R. Bosley Building Al Roces 34

Attached is an interim utilization schedule for NPD 6507, Metals & Controls Inc. The material still in inventory will have to be disposed of before the order can be finally completed.

Pending final resolution of the report, it is suggested the vendor be invoiced for 3,865 gms Uranium weight, 3,799 gms U-235 @ 93.16% enrichment.

T. W. Kissinger Nuclear Core Mat'ls Control NUCLEAR CORE OPERATION

TWK: Lap



METALS & CONTROLS INC.

# TEXAS INSTRUMENTS

INCORPORATED

FILE: KAPL-331, 347, 308, 305

22 April 1966

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

ATTENTION: Mr. R. C. Bisbee

SUBJECT: Material Utilization Schedule

Dear Sir:

In accordance with order requirements enclosed are 2 copies of the final Material Utilization Schedule covering the uranium material received for use under Purchase Orders NPD-7378-D, NPD 9117-D, NPD 6820, and NPD 6507.

Since this covers complete utilization through reclamation and return to the commission facility, final invoices covering the amounts being withheld less our loss liability will be transmitted under separate cover.

Yours very truly,

The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s

J. WHITE

Contract Administrator

Encl: 2

1 c

cc: D. Short SNRO (Attachments)

J. Norris M&C

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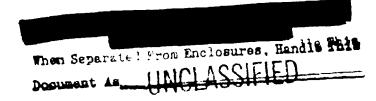
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R. C. BISBEE

1. 1. 2 × 1960

J. W. KISSINGER





#### ATERIAL UTILIZATION SCHEDULE KAPL-305 N-00354

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AFR 20 1968

Project:	K-40702-01-2
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Contract: NPI	)~6	5U	"	-D
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T. W. KISSINGER

Contract: NPD-6507-D		Apr	il 21, 1966 W. MISSINGER
Receipts:	SS	U-235	97.10071
KZA-KAB-10	124,516	116,000	91.100
KZA-KAB-29	804	7/.0	97.1542
Total Receipts	125,320	116,749	93. 16070
			12.
Removals:			·
Products:			
KAB-KZA-21	14,654	13,651	#W23 /
KAB-KZA-23	21,034	19,597	
KAB-KZA-27	16,449	15,324	and the same of th
KAB-KZA-36	11,858	11,047	
KAB-KZA-46	12,725	11,852	-
KAB-KZA-54	12,069	11,245	,
KAB-KZA-57	8,639	8,047	1. 6. 7. 4
	97,428	90,763	93.159.75
Patricina to APC			
Returns to AEC	22 220	01 /50	92.31464
FAX-FXA-99CC#2	23,239	21,453	
Total Removals	120,667	112,216	
Balance to Account For:	4,653	4,533	
<b>T</b>			. A
Inventory:	001	0.55	92.1758
Virgin Uranium	381	355	/ 5 //
Dry Waste	407	379	93.8767
MUF	2,763	2,580	
S/R Differences	$\frac{1,102}{6.52}$	$\frac{1,219}{1}$	
Accounted For	4,653	4,533	
	CIDAMADY		
Receipts:	<u>SUMMARY</u> SS	บ-235	Value_
Total	125,320	$\frac{3}{116,749}$	\$1,404,626.66
Removals:	125,520	110,745	Y1,404,020,00
Total	120.667	112,216	1.350.022.40
Balance to Account For:	$\frac{120,667}{4,653}$	112,216 4,533	1,350,022.40 \$ 54,604.26
Datamet to meddant for.	7,033	1,555	7 31,001020
Inventory:			
Virgin Uranium	381	355	4,270.85
Dry Waste	407	379	4,559.72
Losses	3,865	$_{3,799}$	982923 45,773.69
	4,653	4,533	\$ 54,604.26
Schedule of Losses:			
Process Losses (MUF)	2,763	2,580)	\$ 42,807.60
Shipper/Receiver Difference	835	958)	Y -2,007.00
Loss at Reclamation	267	261	2,966.09
	3,865	$\frac{261}{3,799}$	
Total Losses	<u></u>	3,799	\$ 45,773.69

Wallace S. Holburn SS Materials Representative



April 29, 1960

Metals & Controls Inc. 34 Forest Street Attleboro, Massachusetts

sttention: Hr. J. White

Gentlemen:

Inclosed is Knolls Atomic Power Laboratory invoice 207-1-9299 dated April 29, 1966, in the amount of \$43,320.16. As indicated this invoice pertains to interim source and special nuclear anterial losses on KAPL order MPD 6507. Ajusted billing will be issued when a final utilization schedule is received. Pricing of these losses is based on volume 27 of the Federal Register which was effective July 1, 1968.

Please former: our invoice to your Accounts Payable personnel for payment. Inything you can do to expedite payment of this invoice would be appreciated.

If you have any questions regarding this billing, please let me know.

Yours truly your

NJL:iv

Inclosure

G. M. Bosley, Supervisor CHIZZAL ACCOUNTS

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Make remittance payable to and mail to:
GENERAL ELECTRIC COMPANY
ENOLLS ATOMIC POWER LABORATORY
P.O. BOX 1072
SCHENECTADY, N.Y.

USTOMER'S ORDER NO.

REFER TO OUR INVOICE NO.

207 -1-9299

INVOICE DATE April 29, 1966

K.R. NO.

SOLD TO

DATE

Matala & Controls Inc. 36 Porest Street Attleboro, Mesechasetts

SHIPPED TO

Attention: Hr. J. Wate

TERMS NOT CASH ITDAN DEPENDATION OF THUSICS

TERMS NET CASH	UPON PRESENTATIO	N OF INVOIC	E		- <b>,</b>
ITEM NUMBERS AND QUANTITY			DESCRIPTION	UNIT PRICE	AMOUNT
To bill you Hetals & Con	for interio S itrals Neteria	Materia L'Otilia	il losses es Getermined from Milan Schools deted April 21, 1986 Drentus		
Samo	Darionand	0::000	Pederal Register Vol. 27. Price per Ko.		
APD 6907	93.164	3,865	17,206.35		\$2, PO.1
				· }	
			-		
	43,390.16 (43,320.16)				
	u/RC Risboo rich/T. Kiesin uy (3)	ger			

#### KNOULS ATOMIC POWER LABORATORY

P. O. BOX 1072
SCHERECTADY, NEW YORK 12301
AREA CODE SIG
TELEPHON: 293-8611
TY'D: 518-556-2293
TELEX 012-521

PAGE 1 0F 1

Date: May 2, 1966

Metals & Controls Inc 34 Forest Street Attleboro, Massachusetts

Attention: Mr. J. White-

Subject: Order No. NPD 6507

Information to Vendor No. 23

Reference: Utilization Schedule dated 4/21/66

**4.** •

The material shown in "Inventory" as virgin uranium 381 gms. SS and 355 gms. U-235 will be transferred to Contract AT(30-3)-529 in accordance, Paragraph 38.B.

RC Bisbee (5)

GR Bosley

HA Loucks

RL Fox HW Peters

HW Peters
DW Short Dwo 5/11/6

Cognizant Requester: Mussmall
T.W. Kissinger

#### M & C NUCLEAR PRODUCTS DIVISION

#### FACILITY SYMBOL - KAB

Project Title: Adv. Test Reactor

407__

379

Project Number: K-40702-01-2

Total

Enri	ched Uranium:	93.1%		Held For	r Facility	y: KZA	
Cont	ract or P.O. Nu	mber: NPD-	6507 <b>-</b> D	M & C C	ode:	KAPL~305	
Form	of Material:	E U Metal		Product	Delivery	Completed:	Yes
		COMPOSITION AS OR	_	OF ENDING	INVENTOR	<u>x</u>	
				S	Grams_	บ-235	Grams
<b>4</b> .	Virgin Materia	1			<del></del>	<del></del>	<del></del>
2.	Material in Pr	ocess					<del></del>
3.	Scrap Material				<del></del>	<u> </u>	<del></del>
4.	Waste Material				407		379
		,					



# METALS & CONTROLS INC.

# TEXAS INSTRUMENTS

INCORPORATED

FILE: KAPL-305

30 September 1966

RECEIVED

UU1 **3** 1966

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

IT. W. KISSINGER

ATTENTION: Mr. R. C. Bisbee

SUBJECT: Material Utilization Schedule NPD 6507-D

Dear Sir:

In accordance with order requirements, enclosed are two copies of our final Material Utilization Schedule covering uranium supplied for use under Purchase Order NPD 6507-D.

This covers complete utilization through reclamation, return to the Commission facility, and disposal of that quantity previously determined as dry waste.

A final adjusted invoice for the amount outstanding will be transmitted under separate cover.

Yours very truly,

J. WHITE

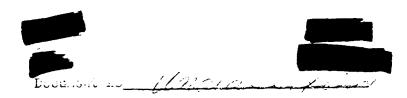
Contract Administrator

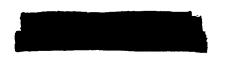
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encl: 2

cc: D. Short (SNRO) Attachment

R. Nault (M&C)





1916 Our Fiftieth Year 1966



September 9, 1966.

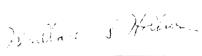
#### MATERIAL UTILIZATION SCHEDULE

KAPL-305 N-00354

Project: K-40702-01-2

Contract: NPD-6507D

RECEIPTS:	SS	<u>U-235</u>	Value
KZA-KAB-10 KZA-KAB-29	124,516 804	116,000 9 749 5 7	14
Total Receipts	_ 125,320	116,749	\$1,404,626.66
REMOVALS: PRODUCT			
KAB-KZA-21 KAB-KZA-23 KAB-KZA-27 KAB-KZA-36 KAB-KZA-46 KAB-KZA-54 KAB-KZA-57	14,654 21,034 16,449 11,858 12,725 12,069 8,639	13,651 19,597 15,324 11,047 11,852 11,245 8,047	
RETURNS TO AEC  FAX-FXA-92 CC#2	23,239	21,453	
Transferred to other project  To AT (30-3)529	381	355	
Total Removals	121,048	112,571	\$1,354,285.02
BALANCE TO ACCOUNT FOR: (LOSS)	4,272	4,178	\$ 50,341.64





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The MacRoen Laboration of the Colors of the

competer for parties of creen and 6545

Posteronre: (1) Lector B. Poterso (187) to J. He chair (2017)
devel 1/22/64

144Y .171

and Lorder 100 6500 for ferrically, then searing therefore has seen completed by section a Controlly, then the utilitation authority has seen resident and in agreement with an object records.

The interface attituation committee was received April 29, 1,60 and one resident was tilled for 3,700 grace of 3-236. There was an outstanding for if you of 3-236 as any waste at the cise and no declarate and been done as to for disposition. The vender has decentioned what it is unarguedical to recover the reterial and a request for per isolated by bury 11 has been made. These waster is responsible for all outstrong this will be called for the analysis of your outstrong this will be called for the analysis.

In soci timber this reference (1), EATH requests verification of the element of year differ so the order may be completed.

very touly yours,

de la Cingrati, Garager Bullous Come appoire d'a Manerica des assert Madiens d'am aperation

JAN Libr

22: I heat (2)

bcc: RC Bisbee

Gh Bosley

KA Lesselring

CT Stabl



# UNITED STATES ATOMIC ENERGY COMMISSION SCHENECTADY, NEW YORK 12301

ADDRESS REPLY TO:
THE MANAGER
U.S. ATOMIC ENERGY COMMISSION
P.O. BOX 1069
BCHENECTADY, NEW YORK 12201
AND REFER TO.

MAT: CFM

October 12, 1966

11/2 25

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

Dear Sir:

Reference is made to your letter of October 5, 1966, Symbol: MC-489, wherein you requested verification of the Vendor's Uranium Utilization Schedule for MFD-6507.

The data on the vendor's schedule have been confirmed and we find no discrepancies in the schedule. It should be noted that in addition to the losses of material reflected in the schedule there was a degredation of enrichment in the material returned to the ABC by the scrap reprocessor.

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

Very truly yours,

G. F. Morgan Materials Division

cc: J. K. Gingrich

R. D. Myklebust

RECEIVED

1 1968

T. W. KISSINGER

#### Completion of NPD 6507

October 14, 1966

Mr. G. R. Bosley
Building A-1, Room #34
KAPL

The final utilization schedule for NPD 6507 has been received from M&C Nuclear Inc. An additional loss of 407 gms. SS and 379 gms. U-235 has occurred since the interim schedule of April 21, 1966.

Additional billing should be made to the vendor based on the enrichment of the material in accordance with the attached utilization schedule.

AEC/SNR has approved the final close-out of this order.

T. W. Kissinger Nuclear Core Materials Control Nuclear Core Operation

TWK: hr

bcc: LF Burke/RC Bisbee

October 19, 1966

Metals and Controls, Inc. 34 Forest Street Attleboro, Massachusetts

Attention: Mr. J. White

#### Gentlemen:

Enclosed is Knolls Atomic Power Laboratory invoice 207-1-9481 dated October 19, 1966 in the amount of \$7,113.73. As indicated, this invoice pertains to source and special nuclear material losses on KAPL purchase order HPD 06507. Pricing of these losses is based on volume 27 of the Federal Register which was effective July 1, 1962. Interim losses were previously billed on invoice 207-1-9299 dated April 29, 1966.

In three instances (transfers to AT(30-3)529, KAB-KZA-5, and KAB-KZA-23), the percent enrichment calculated on return shipments were greater than the percent enrichment of material furnished by KAPL. Our Materials Accountability personnel have indicated that it is not possible for SS Material to increase in annichment during processing. Therefore, in those instances where the percent enrichment of return shipments exceed the percent enrichment furnished, we have adjusted the percentages to agree with those of the material furnished.

Please forward our invoice to your accounts payable personnel for payment. Anything you can do to expedite payment of this invoice would be appreciated.

If you have any questions regarding this billing, please let me know.

Very truly yours

G. R. Boelcy, Supervisor GENERAL ACCOUNTS

MILIEER

Attachment

KNOLLS. MIC POWER LABORATORY

GENERAL ELECTRIC ELECTRIC Make remittance psychie to and mail to:
GENERAL ELECTRIC COMPANY
ENOLLS ATOMIC POWER LABORATORY
P.O. BOX 1072
SCHENECTADY, N.Y.

COMER'S DER NO.

COMPANY REFER TO OUR INVOICE NO.

207 - 1-9461

INVOICE DATE 10-19-66

K.R. NO.

SOLD TO

DATE

Metals and Controls, Inc. 34 Porest Avenue Attleboro, Massachusetts

SHIPPED TO

#### TERMS NET CASH UPON PRESENTATION OF INVOICE

TEM NUMBERS		****	CRIPTION		UNIT PRICE	AMOUNT
					UNIT PRICE	AMOUNT
ro bill you rer as determined to	BC Material 1	Control	KAPL purchase on Material Utilia	Mer #P906507		
bile dated Sept			SERVICE APPTE	Refer Scot-	1	
and copy		•				
			Uranium			
			ederal Register	Isotopic	j	
erence	Enrichment	Grane	Vol. 27, Price	Oresze	1	
Appente			per Ka		1	
CA-EAB-10	no sed	and eac	411 008 10	226 222		
	93.164	124,516	\$11,208.32	116,000	\$1,395,615.14	
C.JKA <b>B-2</b> 9	93.16%	80k	11,236.32	749	9,011,40	
		125.320		116.749	\$1,404,626,64	ı
ir turns					]	
reneferred to						
T (30-3) 529	93.16\$	361	\$11,208.32	355	4,270.37	
AB-ECA-54	93.16%	12,069	11,208,32	355 11,245	135,273.21	
113-KTA-23	93.16%	21,034	11,208.32	19,597	235,755.80	
73-E3-36	93.16%	11,858	11,208,32	11,047	132,908.26	
16 <b>3</b> -ECA-27	93.164	16,449	11,208.32	15,324	184,365.66	
73-82A-21	93.16%	14,654	11,208,32	13,651	164,246.72	
AB-12:4-67	93.15%	8,639	11,207.05	8,047	96,817.70	
13-KLA-46	93.14	12,725	11,205.78	11,852	142,593.55	
/X-7X/1-930cs2	92.31\$	23,239	11,100.37	21.453	257,961,50	
		121,048		112.571	\$1,354,192.77	
00 Manage 1 1 2		h 000		h va0		
35 Material lo		1.213	1 mana	178	\$ 50,433.89	
Test stations	errride on Im	toros sol-	-1-9299 of April	29, 1966	(43,320,16)	
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<u> </u>	,113.73)				i i	
: U Durke/AC	Dieboe				{	
: If Burke/ic JE Gingrich						
GR Bosley (					[ ]	
AP 65 (1-59) REV.	<b>)</b>				,	

REQUEST FOR SHIPMENT OF SS MATERIAL CLASSIFICATION OF MATERIAL A.E.C. 101 FORM NO. metato y Contrato che KZA -KAB-14 DATE REQUIRED AT DESTINATION D-3 Vault Buny are IXI TYPE AND NO OF CONTAINERS MATERIAL CATEGORY (DIRCLE ONE) UE 75 UE) 75 UN UO OTHER. ONE BE 1518 - TYPE II SOLUTION ____ ALLOY OXIDE OF MAT'L. CONTRACT TO BE YES RETURNED CONDITION 6820-0 OR N.P.D. NO. RETURNED [] NO ☐ SAME SHOP ORDER A.E.C. COURIER KAPL MESSENGER 7643 Y430 PURPOSE OF SHIPMENT MISCELLANEOUS INSTRUCTIONS & SHIPMENT REQUESTED BY SEND COPY OF SHIPPING DOCUMENT TO S. WEINSTEIN SHIPPING DOCUMENT NO. DATE OF SHIPMENT CARRIER BILL/LADING NO. SIGNATURE OF SHIPPER DATE MATERIAL CLASSIFIER CUSTODIAN KAP-84 RECEIPT SIGNATURE OF KAPL PURCHASING DATE Q-4 Van RADIOLOGICAL SERVICES UNIT OF MEASURE SIGNATURE-AEC MATERIAL DIVISION DATE MONOTORING INFORMATION GRAMS | KILOGRAMS MATERIAL DESCRIPTION ETC. KIND □ —U 233 **EXTERNAL RADIATION** Mack -U 235 **GROSS** ELEM. ISOTOPE % U % ENR. WGT. MREM/HR AT 2 INCHES** INCL. WGT. WGT. WGT. WGT. PROJECT NO. 5 N 2 40 740 -01-399 1256.6 1257.3 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 SMEAR OTHER MARILORING TOTALS 1964 OCT 8 THE FOLLOWING CONTRACTUAL INFORMATION" IS PROVIDED FROM CONTRACTUAL RECORD FILES AND IS FACTUAL TO SURVEYOR'S MENKILLSINGER DATE THE BEST KNOWLEDGE AND BELIEF OF THE MANAGER-MATERIAL CONTROL. RADIOLOGICAL SERV. SIGN. DATE MANAGER-MATERIAL CONTROL *QUANTITY AUTHORIZED TO DATE _ *QUANTITY PREVIOUSLY SHIPPED ... UNIT __ FORM UNIT ___ QUANTITY THIS SHIPMENT ... TOTAL SHIPPED

TELEX 014 - 521 AREA CODE 518

TWX 518 - 556 - 2393 TELEPHONE 393-6611

#### KNOLLS ATOMIC POWER LABORATORY

**PURCHASING** 

P.O. BOX 1072 OFERATED BY THE GENERAL ELECTRIC COMPANY UNDER GOVERNMENT CONTRACT W - 31 - 109-ENG. -52

SHOP ORDER NO. DATE ORDERED VENDOR CODE M.R. NO. 7643**x430** 27619 **10/** /64 3611

Metals and Controls, Inc.

34 Forest Street

Attleboro, Messachusetts ATTENTION: Mr. J. White SCHENECTADY, NEW YORK 12301

SOVERNMENT CONTRACT W-31-109-ENG.-52

SHOW NPD NO. ON ALL PACKAGES

SHIP TO: KNOLLS ATOMIC POWER LABORATOR YELL
WAREHOUSE BLDG. M-2

SCHENECTADY, NEW YORK

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

FINANCE - ACCOUNTS PAYABLE

(Hereinafter referred to as Sellar) ON PREPAID SHIPMENTS F.O.B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL SHIP VIA F.O.1. TERMS

DO-E2 Certified under Exclusive Truck Att lebom DMS Rea. 1 Mark 20 America

	12.11	erec 1	Zukk	ACCUSOCATO, MAES.	MEC 20 CHAR	DMS Keg.	$\cdot$	
RE QUE	ESTED ON SITE	DELLAERA	DATE	ORDERED FOR	8L	DG.	antegrale	A Bisher
		Ref	Instruction 3	S. Veinstein	15 F		Ri	ibee/cb
THIS	ORDER SUB	JECT TO	GENERAL TERMS AND COND	ITIONS OF ATTACHED PURCHA	SE SUPPLEMENT NO	TC 164 FUNI	DING:	31
ITEM	QUANTITY	UNIT	DELIVER TO:	(MILDING)	(ROOM)	UMIT MICE	DISCOUNT	NET TOTAL
			structions listed	ring items in accordance in the document of the community	ents listed in	Bise		
1	90	pes	Buriched uranium	aliminm allon.				4,606.00
					4"			
2	3	ccs	Impurity analysis	for the aluminum.		(Include Item 1)	i in the	price of
3	3	CCE	Certified test recach item.	sults for mean U-23	5 concentration	(Include Item 1)	in the	e price of
¥			Scrap recovery an	d all losses relate	d to Item 1.		\$	2,000.00
			Total Amount of P	urchase Order				6,606.00

THIS ORDER CONSISTS OF ______

__ PAGES.

GENERAL ( ELECTRIC

RECLIVED

OCT 1 3 1964

T. W. KISSINGER

#### KNOLLS ATOMIC POWER LABORATORY

REPRODUCED AT BOVT EXPENSE

E 2 OF 4 PAGES. VENDOR Metals & Controls, Inc. RINCHASE ORDER NO. 6820-D

#### THE FOLLOWING INSTRUCTIONS SHALL APPLY:

#### 1. Technical Requirements

Attachment #1 entitled Technical Supplement dated 7/30/64.

#### 2. Administrative Requirements

A. Seller shall be fully responsible, at his own expense, for obtaining and maintaining in effect all necessary licenses and approvals from the Commission and all other necessary approvals from Federal, State, and local regulatory authorities as are required to enable Seller to perform his undertaking under this order (see Paragraph B of Article 47 in particular). Seller shall submit a copy of his special nuclear material license to KAPL prior to performance of work involving uranium.

#### 3. Delivery Requirements

KAPL requires and it is essential that delivery for Items 1 through 4 be made on or before nine (9) weeks after receipt of order and material but no later than Jan. 1, 1965, depending on license approval.

#### 4. Terms and Conditions of Purchase

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

- A. Modification to AEC-164 dated 4/1/64.
- B. Article 9 entitled "Government Property" is hereby modified as fellows:
  - (1) The following instructions shall apply to the recertification of material returned to KAPL and the controls shall cover, but not be limited to, identification, method of identification, quantity and degree of processing performed if any.
    - (a) Certify that the material is the same quality as supplied and that the original certification is still applicable.
    - (b) If the material was processed to KAPL approved procedures, Seller shall supply all processing records, test data, if any, a description of the work performed, and certify the quality level of the returned material.
    - (e) All accompanying paperwork shall be in accordance with Quality Control Specification S-3, Rev. 4.
  - (2) Add paragraphs H and I as follows:
    - "H. The delivery or performance dates for the supplies or services to be furnished by Seller under this order are based upon the expectation

Metals and Controls, Inc. Purchase Order NO._ PAGES. VENDOR غ٤

#### Terms and Conditions of Purchase

в.

(2)

(continued)

that Government-Furnished Property suitable for use will be delivered to Seller at the times stated in this order, or, if not so stated, in sufficient time to enable Sellkr to meet such delivery or performance dates. In the event that Government-Furnished Property is not delivered to Seller by such time or times, General Electric shall, upon timely written request made by Seller, make a determination of the delay occasioned Seller thereby, and shall equitably adjust the delivery or performance dates or order price or both, and any other contractual provision affected by such delay, in accordance with the procedures prowided for in the Article of these terms and conditions entitled CHANGES.

REPRODUCED AT GOVT EXPENSE

- I. In the event the Government-Furnished Property is received by Seller in a condition not suitable for the intended use, Seller shall, upon receipt thereof, notify General Electric of such fact and, as directed by General Electric either (1) return such property at General Electric's expense or otherwise dispose of the property, or (2) effect repairs or modifications. Upon the completion of (1) or (2) above, General Electric upon written request of Seller shall equitably adjust the delivery or performance dates or order prices, or both, and any other contractual provision affected by the rejection or disposition, or the remain or modification, in accordance with the procedures provided for in the Article of these terms and conditions entitled CHANGES."
- C. Under the provisions of Article 9 entitled "Government Property" and Article 47 entitled "Modification to Terms and Conditions of Purchase for Government-Furnished Special Nuclear Materials Only" General Electric will furnish to Seller the following items of Government Property for use in connection with and under the terms of this order.

1,170 grams U-235 enriched uranium chop stock nominal 3/16" cubes. U-235 93.1 / 25

If additional uranium alluminum alloy strips is required by Seller to complete the work, and it is determined by KAPL to be in KAPL's and the Government's best interests to do so, then additional uranium alluminum allow strips can be obtained from KAPL at Seller's expense. Such additional material shall be provided by General Electric under the provisions of the Government Property Article, and the purchase order price will be reduced at a price of \$57.60/kg for amount requested. In the event it is determined by KAPL to not be in its and the Government's best interests to supply such additional property when required by Seller, Seller shall be obligated to obtain any additional property at his expense and further to certify that Seller acquired property meets all requirements of this order, or if no requirements are so stated in this order, then Seller shall certify that Seller acquired property is identical in all respects to the first supplied KAPL property.

KAPL estimates that the above listed material will be shipped to Seller on or before Oct. 23, 1964. However, KAPL does not quarantee the accuracy of this estimate.

REPRODUCED AT GOVTH EXPENSE # 18

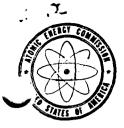
#### KNOLLS ATOMIC POWER LABORATORY

- 4			
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: 6	THE PAGES	VENDOR Metals & Controls, Inc.	PURCHASE ORDER NO. 6820-D
		VEN, 100 0	

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

D. Add Article 47 entitled "Modification to Terms and Conditions of Purchase for Government-Furnished Special Muclear Materials Only" dated May 27, 1964 as modified herein.

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



UNITED STATES
ATOMIC ENERGY COMMISSION
SCHENECTADY, NEW YORK 12301

ADDRESS REPLY TO.

THE MANAGER
U.S. ATOMIC ENERGY COMMISSION
P.O. BOX 1089
SCHENECTADY, NEW YORK 12301
AND REFER TO:

MAT: GFM

February 26, 1965

1 1NIL 63-1

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

Dear Sir:

Enclosed herewith are contract review sheets, as listed below, prepared by SS Facilities holding purchase orders issued by KAPL.

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

Very truly yours,

D. W. Short, Director Materials Division

Enclosures:

NPD-6820-D Review Sheet NPD-7012-Y Review Sheet

cc: J. J. Coomes

# EXTRACT OF CONTRACT/PURCHASE ORDER DATA STATION KAB

ı.	Customer	-	KAPL
----	----------	---	------

2. Contract or Purchase Order No. - NPD 6820 D

3. Company Job No. - N-00379 (KAPL-308)

7. Percent U-235 - 93 +%

4. Project No. - SNR-40740-01-1

8. Effective Contract Date - 10/23/64

5. Project Title -

9. End Delivery Date - 9 weeks after License Approval

10. Nuclear Material Draft No. -

6. Form of Material - E U Metal

ll. Authorized Input:

1 1

Virgin Recycle _____

1.170 grams

12. Who provides starting material? - KAPL

13. Utilization schedule required? (If "Yes", send a copy to SNR Materials Division) - Yes

14. Description of Work - (For Cores - include each Core No.) -

Fabricate EU/Aluminum Alloy Strips

15. Responsibility for Shipper-Receiver Differences - M & C

16. Financial Responsibility for SS Material -

M & C

17. Responsibility for SS Scrap Recovery -

M & C

18. Special terms and conditions re: SS Materials -

19. Miscellaneous -

License Approval Obtained 1/20/65

Prepared By: Wallace S. Holburn/ in allace & Holling

Date: January 28, 1965

( En 2/1/65

REPRODUCED AT GOVT EXPENSE

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

				r	age .		Of	
Date:	November 5, 1964							
To: Subject: Info	Metals and Contr P.O. Box 698, At Order No. NPD 682	tleboro.	Massachusetts VERNVENT PURVISHED	MATERIAL				
		Type Cont Source of I Shop Orde Dollars, Th Dollars, Ad	Funds					
			ing Sudget Control Th Level Manager 6th Level Manager 5th Level Manager 4th Level Manager General Manager	(SI	GNATI	ires requii	RED)	
DISTRIBUTION:  RC Bisbee (5) TW Kissinger DW Short AW Bedford	-309 B-	<b>L</b>						

S Weinstein Johannesson

Cognizant Requester:

### KNOLLS ATOMIC POWER LABORATORY P. O. Box 1072

Schenectady, New York 12301

Page _1 _ of _1

Area Code 518 Telephone: 393-6611 TWX 518-856-2393 TELEX 014-521

Date: November 5, 1964

To:

Metals and Controls. Inc.

P.O. Box 898

Attleboro, Massachusetts

Affontion: Mr. J. White

NPD 6820-D Subject: Order No. - GOVERNMENT FURNISHED MATERIAL

Information to Vendor No. IV #2

#### References

M & C is instructed to transfer 1.170 kg. U235 Uranium chopped stock now in your plant from Contract SCH 63-139 to Contract MFD 6820-D.

Note 1 - The analysis of the above material must be compatible to the requirements of MPD 6820-D.

Note 2 - The above material shall not be transferred for use on NPD 6820-D until the license to fabricate this order has been received by M & C.

Please acknowledge receipt of this IV.

Cognizant Requester: .

REPRODUCED AT GOV'T EXPENSE # 18

Patrior of the Maral Present of the attention of the Same W. S. Atomic Lumper C. subsets a

SERVICE CONTRACTOR SEVERENCE SE SELECTION MOLECULARISTE CONTRACTOR

Pertina territoria

78900N

<del>-</del>				 
	-	C C		:
		(30)i~63-139)   (1)in 3230)   (2)in 3230)		
Preject	tact.	SBE-(4714-91-) (SBE-(4714-91-)		
	lears, therethment, it Allog, etc.	ers od Uranius Glopped Croek Over 75%		

or by framafor: (include four act imminers)

2. John Cornell and John Sone

P. C. 198 . O. J. Clibs Dated 11/5/64

CALLE STATE ORIGINAL SIGNED BY WALLACE S. HOLBURN

D. W. SHORT

3:45

D. W. SHORT, DIRECTOR MATERIALS DIVISION, SNR

MARCH 29, 1965

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

RE 3/26/65 TWX FROM YOUR MR. J. WHITE TO R. C. BISBEE, KAPL, REQUESTING AUTHORIZATION TO SHIP APPROXIMATELY 1.2 KGS U-235 AND APPROXIMATELY TO KAPL UNDER NPD-6820. AUTHORIZATION 1592 GRAMS U-235 HEREBY GRANTED TO MAKE SHIPMENT IN STRICT ACCORDANCE WITH SEPARATE INSTRUCTIONS TO BE TURNISHED YOU THIS DATE BY W. J. GALLAGHER, KAPL. YOU ARE AGAIN REMINDED THAT REQUEST TO TRANSFER NUCLEAR MATERIALS SHOULD BE ADDRESSED TO ME AND SIGNED BY YOU OR YOUR AUTHORIZED REPRESENTATIVE, WITH AN INFORMATION COPY TO KAPL.

cc: J. J. Coomes, KAPL - Mailed -

R. C. Bisbee, KAPL - Mailed

J. H. Barry, NR-SNR

P. F. Schuster, NR-SNR

File: 1.1.5

NPD-6820

Short:1r

# RECEIVED

WILL TWK

WW J. GALLAGHER



#### METALS & CONTROLS INC.

A CORPORATE DIVISION OF

# Texas Instruments

INCORPORATED

RECEIVED

JUN 28 1965

R. G. HOBDAY

Knolls Atomic Power Laboratory P. O. Box 1072

Schenectady, New York 12301

Attention: Mr. R. G. Hobday

Subject: Purchase Order NPD 6820

RECEIVED

JUN 29 1965

J. W. KISSINGER

Gentlemen:

File: KAPL-308

June 25, 1965

In accordance with order requirements, enclosed are four copies of our Utilization Schedule pertaining to the fuel material received for use on the subject order.

If there should be any questions, feel free to call.

Very truly yours,

· linkati

J. WHITE Contract Administrator Navy Nuclear Products

JW/bs Enclosures (4)

June 23, 1956

#### MATERIAL UTILIZATION SCHEDULE

KAPL-308

N-00379

PROJECT NO: SNR-40740-01-1

CONTRACT NO: NPD-6820-D

Total

	GRAMS SS	GRAMS U-235
RECEIPTS:		
Transfer From SCH-63-139	1,256	1,170
DEMOVIAT C.		
REMOVALS:		
KAB-KZA-48	470	438
BALANCE TO ACCOUNT FOR:	786	732
INVENTORY:		
Good Elements	148	138
Solid Scrap MUF - (Process Loss)	605 33	563 31
nur (IIucess noss)	<del></del> -	

Jo / Hillam

W. S. Holburn

SS Materials Representative

786

732

April 23, 1966

Rebensetady Saval Beautions Moited States Atomic Energy Commission Nchesectaty New York

Completion of Order NED 6820

Merences: 1) Letter, & Peterson (SER) to J. McKensie (KAPL), dated 7/82/64

2) Bullisation schools dated 4/21/66

MAPL Order EPD 6820 for Pabrication of fuel bearing material has been completed by Netals & Controls Inc. The schedule has been reviewed and is in agreement with TAPL records.

In accordance with Reference (1) KAFL requests verification of the schedule by your office so the order may be complated.

Very truly yours,

J. R. Cingrich, Manager HOO SUPPORT & MAT'LE CONTROL

201/74K/18P.

D.W. Emort (2)

bec: R.C. Bisbee G.R. Bosley

K.A. Kesselring

C. R. Stahl



## METALS & CONTROLS INC.

# Texas Instruments

NCORPORATED

FILE: KAPL-331, 347, 308, 305

22 April 1966

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

ATTENTION: Mr. R. C. Bisbec

SUBJECT: Material Utilization Schedule

Dear Sir:

In accordance with order requirements enclosed are 2 copies of the final Material Utilization Schedule covering the uranium material received for use under Purchase Orders NPD-7378-D, NPD 9117-D, NPD 6820, and NPD 6507.

Since this covers complete utilization through reclamation and return to the commission facility, final invoices covering the amounts being withheld less our loss liability will be transmitted under separate cover.

Yours very truly,

J. WHITE Contract Administrator

Encl: 2

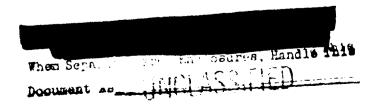
1c

cc: D. Short SNRO (Attachments)

J. Norris M&C

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1. W. NISSHIUEK





#### MATERIAL UTILIZATION SCHEDULE KAPL-308 N-00379

Project: K-40740-01-1

Contract: NPD-6820-D

April 21, 1966

Receipts: Transfer from SCH-63-139	SS 1,256	<u>U-235</u> 1,170	
Removals:  KAB-KZA-48  Returns to AEC(FAX-FXA-92CC#2)  Total Removals	470 719 1,189	$\frac{438}{664}$ $\frac{1,102}{}$	
Balance to Account For:	67	68	•
Losses: MUF S/R Difference	33 34 67	29 39 68	

		SUMMARY	•	_	<u>Value</u>
	Receipts:	1,256	1,170 93.15	z. <b>\$</b> \$	14,076.05
,	Removals:	1,189	1,102		13,254.21
	Balance to Account For:	67	68	\$	821.84
	Schedule of Losses:  Process Losses (MUF) Shipper/Receiver Difference Loss At Reclamation	33 26 8	29) 30) 9	\$	730.05 91.79
		67	68	\$	821.84

RECEIVED

APR 25 1966

J. W. KISSINGER

SS Materials Representative

the while 6



UNITED STATES ATOMIC ENERGY COMMISSION

OMIC ENERGY COMMISSION RECEIVED MAY 2 + 1966 J. K. GINGRICH

May 23, 1966

Media Atomic Power Laboratory Cemeral Blactrie Company Schenestady, May York

hererouse is used to your letter of April 26, 1966; Symbol: MC-446, sherein you requested variablestion of the Vendor's Uranium Utilisation Bolestyle for MPD-6820.

Reference to made to your letter of May 10, 1966; Mymbol: MC-449, wherein you requested varification of the Ventor's Branium Utilization Schedule TOT 1070-7378.

Meference is made to your letter of May 17, 1966; Symbol: MC-450, wherein you requested verification of the Ventor's Uranium Utilisation Schedule for Da-7309.

The date of the westor's substales have been confirmed and we find no discrepancies in the selection.

The above information is Tarnished so that KAPL can proceed with the final close-out of the above-mentioned purchase orders.

Ar Tollary tirely yours post

C. L. SCHEAR

D. W. Short, Director Materials Division

J. K. Gingrich R. D. Myklebust

Completion of Order NPD 6820 - MEAC Inc.

May 27, 1966

Mr. G. R. Bosley Room 34 Building Al

MPD 6820 has been completed by M&C Inc. and approval to close out the order has been received from AEC/SNR.

Please arrange for KAPL to be reimbursed for 68 gms. U-235 loss in addition to degradation of material returned to the AEC in accordance with the M&C utilization schedule attached.

T. W. Kissinger Buclear Core Mat'ls Control NUCLEAR CORE OPERATION

TWK: Lap Attachment

MAY 31, 1966

METALS & CONTROLS, INC. 34 FOREST STREET ATTLEBORD, MASSACHUSETTS

ATTENTION: MR. J. WHITE

GENTLEMENT

ENGLOSED ARE NOOLLS ATOMIC POWER LABORATORY INVOICES 207-1-938 AND 207-1-9339 WHICH AGGREGATE \$1,053.11. THESE INVOICES PERTAIN TO SOURCE AND SPECIAL NUCLEAR MATERIAL LOSSES ON KAPL PURCHASE ORDERS NPD 6820 AND NPD 7378. RESPECTIVELY. PRICING ON THESE INVOICES IS BASED ON VOLUME 27 OF THE FEDERAL REGISTER WHICH WAS EFFECTIVE JULY 1, 1962.

IN CALCULATING THE AMOUNT OF SS MATERIAL LOSSES ON PURCHASE CROER NPD 6020 (INVOICE 207-1-9330), THE PERCENT ENRICHMENT OF THE RETURN SHIPMENT KAB-KZA-46 WAS GREATER (93.1918) THAN THE PERCENT ENRICHMENT OF THE MATERIAL FURNISHED (93.1538). SINCE OUR MATERIALSSACCOUNTABILITY PERSONNEL HAVE INDICATED THAT IT IS NOT POSSIBLE FOR SS MATERIAL TO INCREASE IN ENRICHMENT DURING PROCESSING, WE HAVE ADJUSTED THE PERCENT TO AGREE WITH THAT OF THE MATERIAL FURNISHED.

PLEASE FORWARD OUR INVOICES TO YOUR ACCOUNTS BAYABLE PERSONNEL FOR PAYMENT. ANYTHING YOU CAN DO TO EXPEDITE PAYMENT WOULD BE APPRECIATED.

VERY TRULY YOURS.

G. R. BOSLEY, SUPERVISOR GENERAL ACCOUNTS

DEBIJEM

CHELOSURES

BCC: LF BURKE/RC BISBEE

JK GINGRICH/T. KISSINGER

# General Electric Company KNOLLS ATOMIC POWER LABORATORY Schenectady, New York

Date:	november 19 1963	
Audit of NPD:	44191	
Company:	metals + Controls he.	
	Gen. Plat Dir	
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	8/12/59-5/0 C472	2000#
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#### **PURCHASE ORDER**

### KNOLLS ATOMIC POWER LABORATORY

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GENERAL ELECTRIC

KAP-6G (5-59) REV

~		PURCH	IASE ·ORD	ER	4
1.1	<b>JLLS</b>	<b>ATOMIC</b>	<b>POWER</b>	LABORAT	<b>28</b> /

**PURCHASING** P.O. BOX 1072 SCHENECTADY, NEW YORK PURCHASE ORDER NO. DATE ORDERED VENDOR CODE OP ORDER NO COMM NO M R NO SHOW NPD NO. ON ALL PACKAGES NPD 14191-X 27-2 12/16/59 13611 AND CORRESPONDENCE Amendment #1 Motals and Controls Corporation SHIP TO: KNOLLS ATOMIC POWER LABORATORY General Plate Division WAREHOUSE BLDG. M-2 Attleboro, Mass. SCHENECTADY, NEW YORK Attn: Mr. M. Payton 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. DO-E2 Certified under DMS Reg. 1 BLDG. REQUESTED ON SITE DELIVERY DATE ORDERED FOR BUYER Warehouse/Newman/Hanny/Doody R. M. Tentor/jid This order placed pursuant to Gov't Prime Contract No. X AEC W-31-109 ENG. 52 **NAVY NOBS 72103** NAVY NOBS 56405 Subject to general terms and conditions of attached Purchase Supplement X AEC - 958 **NAVY - 858** UNIT NET DESCRIPTION DISCOUNT QUANTITY PRICE ITEM UNIT TOTAL CONFIRMING ORDER IF CHECKED Purchase Order RPD 44191-Y issued under date of August 11, 1959 is hereby amended as follows: Delete "200 pounds" from Instruction 3 in line four (4) and substitute in lieu thereof "400 pounds". 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 Crier Price Summary: Original Amount of Order \$11,350.00 Change by this Amendment #1 Revised Total Amount of Purchase Order-\$11,350.00 This Amendment confirms telegram of August 14, 1959 to Mr. M. Payton.

KAP-65 (5-89) REV.

**PURCHASING** 

### **PURCHASE .ORDER** LIS ATOMIC POWER LABORATORY

P.O. BOX 1072

23585 COMPLIO. DATE ORDERED A1381 400E AUG 1 2 1959

Metals and Controls Corporation General Plate Division Attleboro, Massachusetts Attn: Mr. M. Payton

SHOW NPD NO. ON ALL PACKAGES
AND CORRESPONDENCE

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

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K&P-6G (5-59) REV.

## PURCHASE ORDER LLS ATOMIC POWER LABORATC

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SCHENECTADY, NEW YORK

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Metals and Controls Corporation

COMM. NO.

PAGE -3-

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

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KAP-6G (5-59) REV.

### PURCHASE ORDER LLS ATOMIC POWER LABORATORY

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SCHENECTADY, NEW YORK

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Metals and Controls Corporation

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SHIP TO: KNOLLS ATOMIC POWER LABORATORY

WAREHOUSE BLDG. M-2 SCHENECTADY, NEW YORK

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KAP-6G (5-99) REV.

### PURCHASE ORDER KULLS ATOMIC POWER LABORATO

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KAP-0G (5-30) REV.

### PURCHASE ORDER K. TLLS ATOMIC POWER LABORATO.

**PURCHASING** P.O. BOX 1072

SCHENECTADY, NEW YORK

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WAREHOUSE BLDG. M-2

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KAP-8G (5-19) REV.

### PURCHASE ORDER DLLS ATOMIC POWER LABORATO

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Metals and Controls Corporation	SHIP TO: KNOLLS ATOMIC POWER LABORA
PAGE -7-	WAREHOUSE BLDG. M-2 SCHENECTADY, NEW YORK

ATORY VI BEPRODUCED AT BILLING INSTRUCTIONS (USE LETTERHEAD ADDRESS): RENDER INVOKES IN DUPLICATE TO: FINANCE-ACCOUNTS PAYABLE. ON PREPAID SHIPMENTS F. O. B. SHIPPING POINT ATTACH ORIGINAL TRANSPORTATION BILL. SHIP VIA FO.B. DO-E2 Certified under DMS Reg. 1 REQUESTED ON SITE | DELIVERY DATE ORDERED FOR **BUYER** This order placed pursuant to Gov't Prime Contract No. **NAVY NOBS 72103** AEC W-31-109 ENG. 52 NAVY NOBS 56405 Subject to general terms and conditions of attached Purchase Supplement AEC - 958 NAVY - 858 UNIT NET DESCRIPTION DISCOUNT QUANTITY ITEM UNIT PRICE TOTAL 8. The Seller recommines that it rerieue forms possesses potentially baserdous properties. With respect to the Zirconium furnished by KiFL, the Seller essures full responsibility and shall indepolity and hold General Electric bermless egatos my losses, limbility, expenses or damge to the Seller or others which occur or erise thile the Rirection is in the possession and control of the Seller or empose performing services for the Seller. 9. With regard to the Zircalcy supplied by KAPL, the Seller shall: A. During the course of the bark maintein identification records and provide reports in accordance with the document entitled "Instructions to Suppliers: Accountability of Covernment Controlled Critical Materials" dated 5/21/58. E. Upon completion of the work, provide the Hannger of Materials Accountability, EMPL, four (4) copies of a material report commining the following information:

### KAP-EG (E ]

# PURCHASE ORDER KI-LLS ATOMIC POWER LABORATO

	JRCHA	SING			P. O.	BOX	1072	SCHENECTADY, NEW YORK
T		M.R. NO.	Controls PAGE -8-	DATE ORDERED	VENDOR CODE		,	PURCHASE ORDER NO.  NPD NO. ON ALL PACKAGES  NPD - 11291-Y  NPD - 11291-Y  KNOLLS ATOMIC POWER LABORATORY  WAREHOUSE BLDG. M-2  SCHENECTADY, NEW YORK
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BILLIF	IG INSTRUCTION	NS (USE LETTE	ERHEAD ADDI		N DUPLICATE TO: FINANCE—ACC		NA BILL			
SHIP	/IA				F. O. B.	TERMS	DO-E2 C	Certified NS Reg. 1		
REQU	STED ON SITE	DELIVERY D	ATE		ORDERED FOR		BLDG.		UYER	<u> </u>
	•	•		Prime Contract No.	AEC W-31-109 ENG. 52	NAVY NOBS 5	6405	NAVY NO	OBS 72103	
Subj	ect to gene	eral terms	and con	ditions of attached	Purchase Supplement	AEC - 958	NAVY - 858		<del>,</del>	
ITEM	QUANTITY	UNIT			DESCRIPTION			UNIT PRICE	DISCOUNT	NET TOTAL
			¢.	(Continued) 1. Quantity 2. Quantity 3. Quantity 4. Quantity (in pour 5. Detailed Upon receipt (B) above, instruction Seller's pli of disposite burn and bur and ship for material and to burning a expense of a shall be Seller shall Commerce Con	of rew material: of finished meter of scrap generate of scrap generate of upprocessed re dis and ferm). Lesses (pounds).  t of information: tAPL vill furnish of for the material ant. The Seller si ion instructions i ry, negotiate for the Seller's plan is scrap generated. and burying of ser the Seller and all certified in write t conform to all a mission regulation of KAPL supplied re	rial shipped (ed (in possess of consisted by (escape disposed by (escape disposed by the consisted by the consisted by the consisted by the consisted by the consistency of consistency of the consistency	in possis and form maining  A) end ities the eight APL, prepare assed lative t the isposed erstate	s & fo	<b>2</b> ).	

Subject: Disposition Instructions for Zirceloy Residue

Accumulated Under Purchase Order NPD 44191-Y

Reference: Your Inventory Report No. 10 Dated

June 22, 1960

July 5, 1960

Metals and Controls Division of Texas Instruments Attleboro, Massachusetts

Attention: Mr. Harry E. Semple

Gentlemen:

You are hereby instructed to prepare and ship f.o.b. your plant the 290.8 pounds type III residue reported in the referenced report to:

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

Attention: Mr. L. Howman/T. W. Kissinger

Please identify this shipment with the MPD and ingot mashers, both inside and outside of shipping container. Chips, turnings, and fines should be shipped separate and identified on exterior only.

Very truly yours,

L. E. Duran - Contract Analyst Materials Accountability

LED:sel

bee: NF Bradt

HS Dorr

FC Hanny

Tw Kissinger

レセン AEPRODUCED AT GOVT EXPENSE C. Smith F. Barry 4 H. Loucks

W. Mesz

RPD 44191

April 13, 1960.

#### MEMO TO FILE:

- 4/11/60 After reviewing purchase order NPD 44191, it was determined that the legal position of KAPL concerning additional material requirements, was that the order did not clearly state that the vendor must purchase Zircalcy from KAPL. Because of this, the vendor could elect any of the following:

  - Buy KAPI furnished ingot material at \$11.00 per pound.
     Buy KAFI furnished 3/4" x 12" x RL material at \$19.00 per pound.
     Seller could obtain material from commercial sources provided Seller could obtain material from commercial sources provided he certified the material to KIL-Z-19859A.

The vendor elected to exercise the third alternate.

4/11/60 - Conversation with Mr. Loucks - stated that KAPL should have the vendor

Purchasing recommends that the vendor be requested to quote on this regulrement and at the same time have other vendors quote on the same requirement. If General Plate is lowest conforming vendor an order can be place with this vendor.

4/11/60 - Telecon with Mr. Wolfe of General Plate - he will proceed with the material for use in completing purchase of the certified Zircaloy item 1 of the order.

> If KAPL wishes to terminate the requirements of Item 1, negotiations can be conducted with the vendor. If termination is considered the vendor will be obligated to provide KAPL with the correct starting stock to produce item 1.

R. M. Tentor - Contract Administrator PURCHASING

BET: 11d

Francisco Carrolla Carro

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

Date:

September 23, 1959

To

Metals and Controls Corp. - General Plate Division

Subjecti

MPD-44191, Approval of Laboratory Facilities

Information

.1 .

to Vendor No.

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

(SIGNATURES R	<b>LEQUINED</b>
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#### Financial Representative

Approved: 7th Level Manager

6th Level Alanager

5th Level Manager

4th Level Manager

General Manager

- S	RISL	JTIC	DN.

T	.K.	Clarke	>
v	• 🕰 •		

R.J. Enrico

F.C. Hanny

H.E. Kirk

L.E. McGinnis&E

H.R. Pagano (2)

M.E. Paine

J.S. Roicki

C.E. Smith

M.W. Steffens (5)

S. Sturges JAL

W.W. Ward (2)

W.A. NEISZ - wan

RECEIVED

STP 2.8 1959

F. C. HANNY

Cognizan: Requester A. D. Doody ()

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

# P. D. BOX 1072 SCHENECTADY, NEW YORK

Date: September 23, 1959

To: Matais and Controls Corp. General Plate Division Attleboro, Massachusetts

Attention: Mr. K. J. Payton

Subject: RFD-44191, Approval of Laboratory Facilities Information to Vendor No. 2

Reference: (1) Letter M.J. Payton to R.M. Tentor dated 9/18/59

(2) Military Specification MIL-Z-19859A (Ships) dated 2/27/59

(3) Ingot EZC-1035

The corrosion, non-destructive and destructive test facilities of N&C Nuclear are, for purposes of this order only, approved as required by Paragraph 4.1.1 of the applicable specification Reference (2), except for chemistry laboratories.

Chemistry analysis may be performed by MEC Buclear for information purposes only. Certification of the material to MIL-Z-19859A and its acceptance or rejection as far as chemistry is concerned will be on the basis of KAPI.'s chemistry results.

You are hereby requested to furnish KAPL with duplicate samples for analysis and testing in compliance with Paragraphs 4.5.1.1, 4.5.2.1.1, 4.5.2.2.1 and 4.5.3.1 of the applicable specification Reference (2).

Paragraphs 4.3.2 to 4.3.2.5 inclusive of the applicable specification Reference (2) cover the sampling requirements.

Ingot HZC-1035 furnished on the subject order is certified to Preliminary Military Specification for Zircaloy II Ingots dated 6/20/58. Test data to substantiate ingot certification are on file with KAPL Miclear Core Quality Control and copies may be obtained upon request.

Cognizant Requestor:

J.E. M Juma