

February 1958 - Through January 1959

RESEARCH GRANTS:

B {

[REDACTED]  
Patient Hospitalization  
[REDACTED]  
[REDACTED]

\$36,800.00 ✓  
1,000.00 \$37,800.00  
2,950.00  
3,466.66 \$44,216.6

SALARIES & FEES AND SOCIAL SECURITY:

Salaries and Fees  
Social Security

15,478.90  
307.23 15,786.1

SUPPLIES AND SERVICES:

Special Chemicals:

B

[REDACTED]

\$ 650.00  
217.80  
1,355.68  
2,037.52

4,261.00

B

[REDACTED]

918.30  
27.98

946.28 5,207.2

TOTAL EXPENDITURES

\$ 65,210.8

5 2 0 7 2 8 U  
1 5 7 8 6 1 3  
4 4 2 1 6 6 6  
0 0  
6 5 2 1 0 0 7 1\*

February 1958 - Through January 1959

RESEARCH GRANTS:

B {	[REDACTED]	\$36,800.00	
	[REDACTED] Patient Hospitalization	1,000.00	\$37,800.00
	[REDACTED]		2,950.00
	[REDACTED]		<u>3,466.66</u> \$44,216.66

SALARIES & FEES AND SOCIAL SECURITY:

Salaries and Fees		15,478.90	
Social Security		<u>307.23</u>	15,786.13

SUPPLIES AND SERVICES:

Special Chemicals:

B {	[REDACTED]	6 650.00	
	[REDACTED]	217.80	
	[REDACTED]	1,355.68	
	[REDACTED]	2,037.52	4,261.00
	[REDACTED]	918.30	
	[REDACTED]	27.98	<u>946.28</u> 5,207.28

TOTAL EXPENDITURES

\$ 65,210.00

B



1	1	6	8	4	2	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	3	7	5	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

2 1  
 2 6 3 0  
 1 5 5 5  
 7 0 5 7

0 0 0 0 0 0 0 0  
 0 0 0 0 0 0 0 0  
 0 0 0 0 0 0 0 0  
 0 0 0 0 0 0 0 0

B



8	2	3	6	8	1
5	3	2	0	0	0
1	3	5	5	6	8

4 2 6 1 0 0

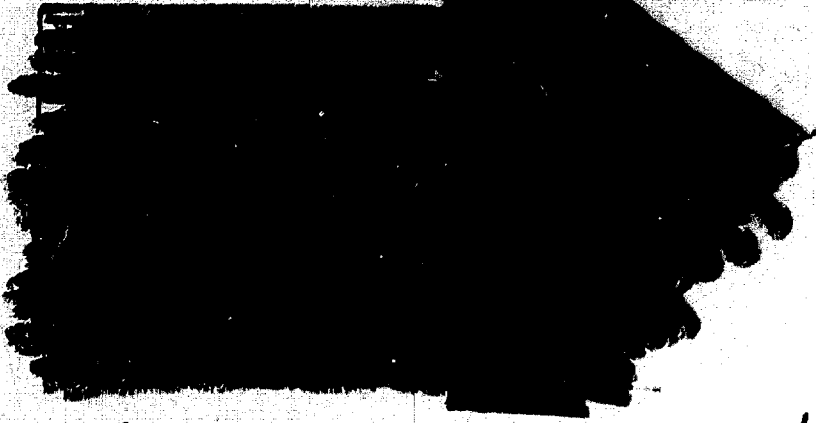
0 0 0 0

B

E



E



82  
113.64

December 10 1968 No. 1566

E

Pay to the order of

B

\$ 523.68

Eight hundred and twenty-three and 68/100

Dollars

Special check

C

B

SIGNATURE

B  
FOR DEPOSIT ONLY

E

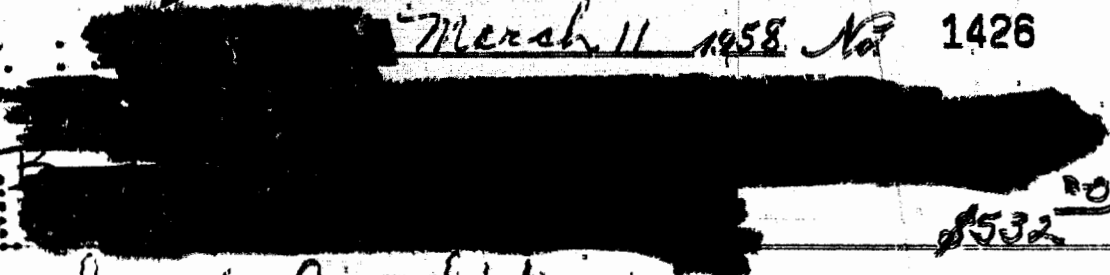
E



1234567890  
1234567890

March 11 1958 No. 1426

Pay to the order of



\$532.00

Five hundred thirty-two

00 Dollars



B

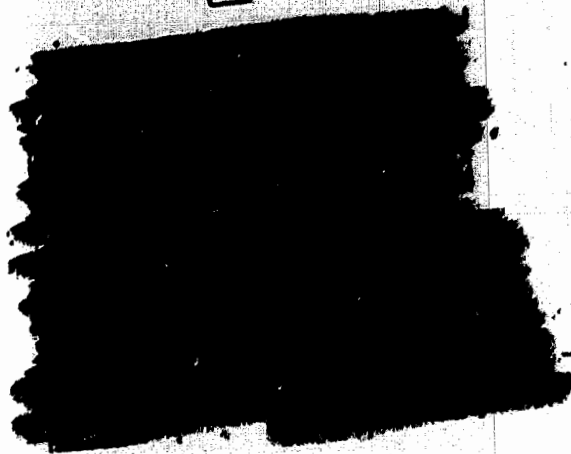


C

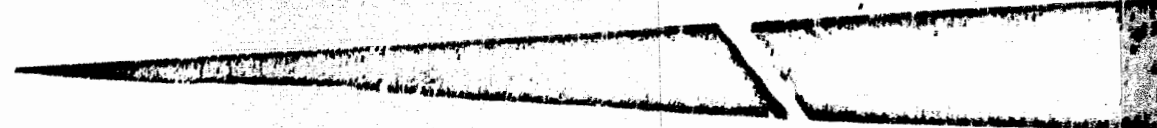
E

2000000000

E



FOR DEPOSIT TO ACCOUNT OF  
B



B	E	2-12-58 JAP	1591 E
B	B	E	E
E	E	B	C

E [Redacted] November 1958 No. 1546

B

[Redacted] E

B [Redacted] \$160.59

One hundred [Redacted] 59 Dollars

as shown  
3m. 927/720

E

C

AUTHORIZED SIGNATURE

B

E

PAY TO THE ORDER OF

[Redacted]

[Redacted]

B

[Redacted]  
 [Redacted]  
 [Redacted]  
 [Redacted]  
 [Redacted]  
 [Redacted]

Receipt No. 1591

Pay to the order of

\$137<sup>10</sup> ✓

Three hundred and thirty seven and 10/100 Dollars

spec. chemical

B

C

AUTHORIZED SIGNATURE

PAY TO THE ORDER OF

B  
 E  
 [Redacted]  
 [Redacted]



B

E February 28 1958 No 1419

Pay B  
to the  
order of

[REDACTED]

91  
\$ 52

Fifty-two

91 Dollars

Invoices 992059; 990756

Special Chemicals

AUTHORIZED SIGNATURE

PAY TO THE ORDER OF

[REDACTED]

B

E  
[REDACTED]

PAY TO THE ORDER OF

B

E



E

B

E

Master Card No

1467



E

Pay to the order of



\$1,684<sup>96</sup>

One thousand six hundred and eighty-four

<sup>96</sup>/<sub>100</sub> Dollars

Special Chemicals

E

B

C



AUTHORIZED SIGNATURE

B

E

May 13 1958 No. 1455

Pay to the order of

B

E

650.00

650 Dollars

hundred & fifty

Special Checks

B  
C

AUTHORIZED SIGNATURE

B

E

E

FOR DEPOSIT ONLY

45-2

B

Pay to the order of

January 6 1957 New

Two hundred

and no/100

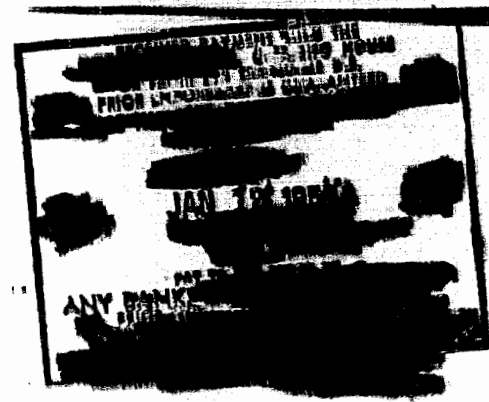
11 Dollars

Completed

SIGNATURE

91830	9	4	6	2	7	9	8	8	0
	2	2	5	3	0	7	1	8	4
	2	2	5	3	0	7	1	8	4
	2	2	5	3	0	7	1	8	4
	2	2	5	3	0	7	1	8	4
	2	2	5	3	0	7	1	8	4
	2	2	5	3	0	7	1	8	4
	2	2	5	3	0	7	1	8	4
	2	2	5	3	0	7	1	8	4
	2	2	5	3	0	7	1	8	4

FOR DEPOSIT ONLY TO ACCOUNT OF



[Redacted] Feb 28 1958 No [Redacted] E  
 [Redacted] E [Redacted] E  
 [Redacted] C \$ 233.<sup>75</sup>  
 Two hundred thirty three and 75/100 Dollars  
 supplied to [Redacted] C [Redacted] B

C [Redacted] E [Redacted]

FOR DEPOSIT ONLY  
TO ACCOUNT OF

[Redacted]

E

E

[Redacted]

1000  
0000

B

[Redacted]

July 23 1958

[Redacted] E

[Redacted]

E [Redacted] E

Pay to the order of

[Redacted]

C

\$ 225<sup>99</sup>

Two hundred & twenty eight

76 Dollars

Supplies

[Redacted]

UNITED SIGNATURE

H

4512

B

October 9 1958 No.

E

[REDACTED]

E

Pay to the order of

[REDACTED]

C

\$201 <sup>46</sup>/<sub>100</sub>

Two hundred and one

46/100 Dollars

and no/100ths

E

B

[REDACTED SIGNATURE]

00117

FOR DEPOSIT ONLY TO ACCOUNT OF

[REDACTED]

[REDACTED]

E

[REDACTED]

OCT 24 1958

[Redacted] 1958 No. [Redacted] E  
 [Redacted] E  
 [Redacted] 78  
 [Redacted] 27  
 [Redacted] 78  
 [Redacted] Dollars  
 Twenty  
 Supplies  
 B C

FOR DEPOSIT ONLY

C

[Redacted]  
 [Redacted]  
 [Redacted] BE 71 NRP  
 [Redacted]

III



Research  
Grants

3	7	8	7	7	0	0	0
3	4	6	7	0	0	0	0
2	9	5	7	0	0	0	0
4	4	2	1	6	0	0	0

75-3

FOR DEPOSIT ONLY  
Treas.



Washington D.C. *M-2* 1958 No 1466

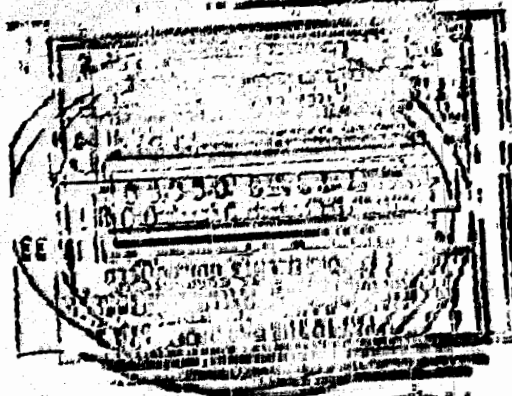
[Redacted]

*Pay to the order of* [Redacted] Research Foundation \$1,733.<sup>00</sup>

One thousand [Redacted] Dollars

and pay Grant

POSTMASTER'S SIGNATURE



W  
TICKETS  
[Redacted]

Washington, D.C. January 28 1958 No 1412

(D)

Pay to the order of

[Redacted] Research Foundation

\$ 67.33

Cash [Redacted] seven hundred thirty three

and no/100 Dollars

Research Grant  
January 15

[Redacted Signature]

AUTHORIZED SIGNATURE

45-3

RECEIVED PAYMENT IN FULL  
 WASHINGTON D.C. CLEARING HOUSE

MAR - 5 1958

MAR 9 1958

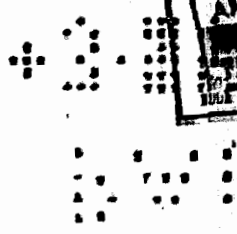
ANY BANK WILL CASH OR TRUST CO

THE WASHINGTON CLEARING HOUSE

100 C.

100 C.

100 C.



Washington, D.C. February 28 1958 No. 1411

Pay to the order of *Medical School* \$800

Eight hundred and no/100

*Roscoe*

*Dallas*

N.P.

SIGNATURE

RECEIPT PAYMENT FROM THE  
 WASHINGTON, D.C. CLEARING HOUSE  
 [REDACTED]  
 [REDACTED]  
 MAY 21 1958 F&I  
 [REDACTED]  
 [REDACTED]

Check # 1457

B  
 WASHINGTON, D.C.  
 [REDACTED]

B

Washington, D.C. May 13 1958 No. 1457

N.P.

Pay to the order of

[REDACTED]

Hospital

\$1000<sup>00</sup>

Has

100 Dollars

Pt hospitalization

SIGNATURE

45-3

1126

MR.

Pay TO THE ORDER OF

C. January 7 1952

\$ 4,000.<sup>00</sup>

Four thousand

00 DOLLARS

For Research Pathology Dept.

DEPOSIT TO THE CREDIT OF

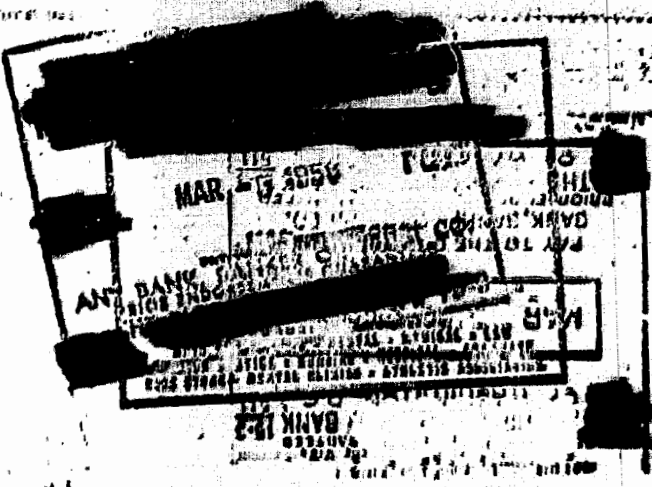
NYCB

BY THE

AT THE

NEW YORK CITY

NEW YORK



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0000000000  
4000000000  
4064651

J U  
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4000000000  
4064651  
1 36000

B

Washington, D.C. February 28, 1958 No. 1414

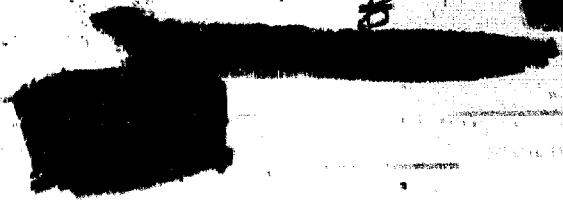
[Redacted]  
[Redacted] \$10,000  
[Redacted] 100 Dollars  
Research Pathology Dept.  
N. P.



B



E



B

E





1108

WASHINGTON

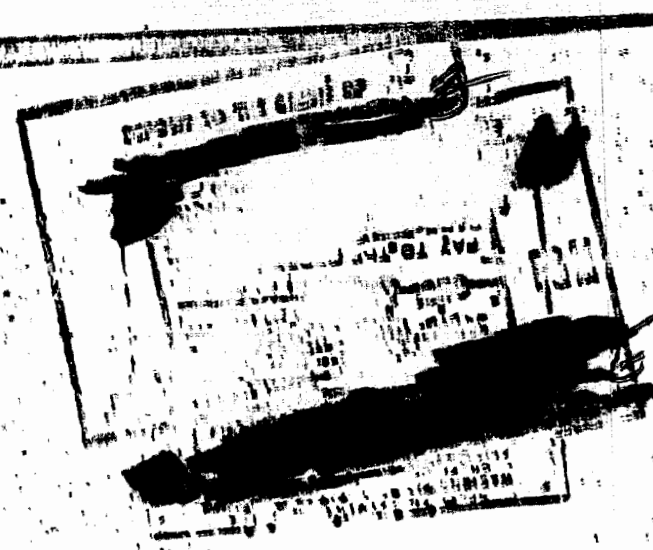
August 12 1958

\$ 4,000.00

Four thousand

00  
100 DOLLARS

Non Research Grant - Pathology



453

PAY TO THE ORDER OF  
 BANK OF AMERICA TRUST CO  
 MAY 18 1958  
 [REDACTED]  
 [REDACTED]  
 [REDACTED]

[REDACTED]  
 [REDACTED]  
 [REDACTED]

N.P. Washington, D.C. May 17 1958 No 1465  
 [REDACTED]  
 Pay to the order of [REDACTED] \$6000 00  
 Six thousand  
 [REDACTED]  
 Grant-Pathology Dept  
 [REDACTED]  
 AUTHORIZED SIGNATURE

Calicut

RECEIVED PAYMENT  
 JUN 20 1958  
 6 1958  
 BANK OF AMERICA  
 PRINCIPAL OFFICE  
 CO.

*Don't take away*

Washington, D.C.

June 8

1958

1475

[REDACTED]

Medical School

\$5,000.00

Five thousand

50 Dollars

Grant - Pathology Dept.

45-3

Washington, D.C. December 10 1958 No. 1500

Pay to the order of

[Redacted]

[Redacted]

School

\$1,000.00

thousand

Dollars

Special

AUTHORIZED SIGNATURE

PAID TO THE CREDIT OF

[Redacted]

DEC 10 1958

THE FEDERAL RESERVE BANK OF WASHINGTON

ANY BANK, BANKING OR TRUST CO.

DEPOSITED IN FULL PAYMENT OF THIS CHECK

Receipt No. A 3061

Pay to the order of [Redacted]

[Redacted]

[Redacted]

45-3

UNIVERSITY OF CALIFORNIA LIBRARY No 1530

Pay to the order of University

Two thousand and no/100  
Research Grant

\$2,950.00

Two Thousand and no/100 Dollars

AUTHORIZED SIGNATURE

FOR DEPOSIT ONLY  
TO THE CREDIT OF

[Redacted area]

[Redacted area]

45-4

2	1	7	4	0	0	0	0	U
	1	0	0	0	0	0	0	U
				0	0	0	0	U
2	2	7	4	0	0	0	0	U
				0	0	0	0	U
2	1	7	4	0	0	0	0	U
	9	2	7	9	9	5	5	
	9	2	7	9	9	5	5	
	9	2	7	9	9	5	5	
	9	2	7	9	9	5	5	
	9	2	7	9	9	5	5	
	9	2	7	9	9	5	5	
1	3	0	3	0	0	7	7	
	9	3	6	3	3	4	4	
	9	3	6	3	3	1	1	
1	0	3	2	6	6	0	0	
1	2	1	5	2	2	9	9	
2	6	0	0	0	0	0	0	
				0	0	0	0	
				0	0	0	0	
1	5	7	8	6	1	5	5	

[Redacted] - E

1000

B

B

December 10 1958 No

File  
in the  
center

- C 600

of hundred

100 Dollars

Special Research Agent

B-

[Redacted]

C

E

B

May  
to the  
order of

Five hundred

Special Research Project

E

5500

Dollars

B-



429

[Redacted]

[Redacted]

DEC 23 58 011

- E

[Redacted]

B

[Redacted]

[Redacted] *December 1958 No* [Redacted] - E  
 [Redacted] - C \$300<sup>00</sup>  
*Handwritten* \$50 Dollars  
 [Redacted] *Handwritten*  
 [Redacted]

B

B



Pay to the order of

[Redacted text]

- C

[Redacted text]

Sum of

[Redacted text]

Dollars

and current interest

[Redacted text]

[Redacted text]

13

B

[Redacted text]

- E

POST OFFICE



E



6666 85.91 Nhr



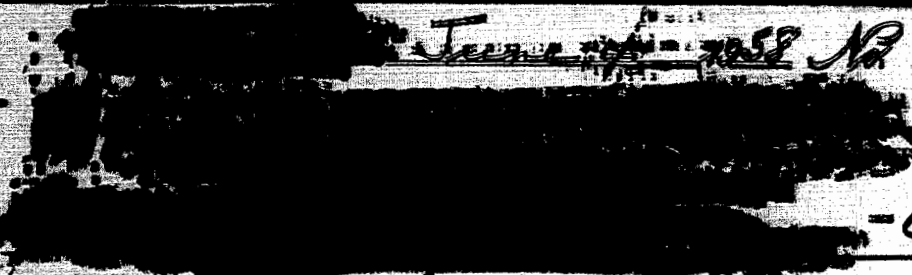
1000000000

1000000000

C

June 1958 Nhr

1000000000

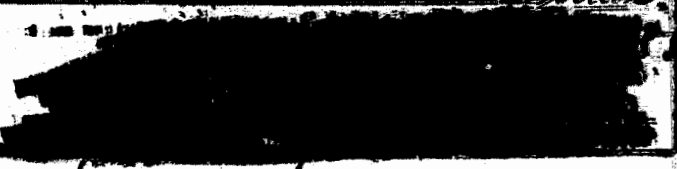


600.00

hundred

890 Dollars

D-164 Studies



B

B

*Dec*

1 2 1 2 1 2 1 2 1  
9 0 5 0 5 0 5 0 5 0  
7 0 0 0 0 0 0 0 0 0  
2 0 0 5 0 0 0 0 0 0  
9 0 0 5 7 0 0 0 0 0  
1# 5 1 1 1 1 1 1 1 1 1

(C)

[Redacted]

(E)

[Redacted]

(E)

[Redacted]

NOV 30 1958

(D)

[Redacted]

December 31 1958 No.

Pay to the order of

Qualified

Consultant

(E)

(E)

(C)

\$100<sup>00</sup>

00 Dollars

(E) (E)

AUTHORIZED SIGNATURE

45-5

(7)

1859

1959

(7)

December 31, 1958 No

(E)

(E)

Pay to the order of

(C)

\$208.97

Two hundred and eight

97 Dollars

Salary

(B)

(C)

GRIZED SIGNATURE

(E)

(C)

(H)

[REDACTED]

DEC 24 5 30 PM '53

[REDACTED]

(B)

[REDACTED] *See index 41 22 1953 - 1a* (C)

[REDACTED] (C) (C)

[REDACTED] (C) *Spec*

[REDACTED] (C) *Call*

[REDACTED] (B)

[REDACTED] (C) (C)

X [REDACTED] (C)

AUTHORIZED SIGNATURE

(B)

December 22 1958 No. [REDACTED]

(E)

Pay to the order of

(E)

(E)

[REDACTED]

(C)

\$100.00

100 Dollars

1000.00  
James Jones

(S)

(C)

(P)

AUTHORIZED SIGNATURE

(D)

[REDACTED]

(E)



December 22, 1958 No. [redacted]

(E)

(E)

(E)

Pay to the order of

(C)

\$250.<sup>00</sup>

Two hundred and fifty

00 Dollars

(B)

25000 <sup>172</sup>

(C)

James Bonnes

AUTHORIZED SIGNATURE

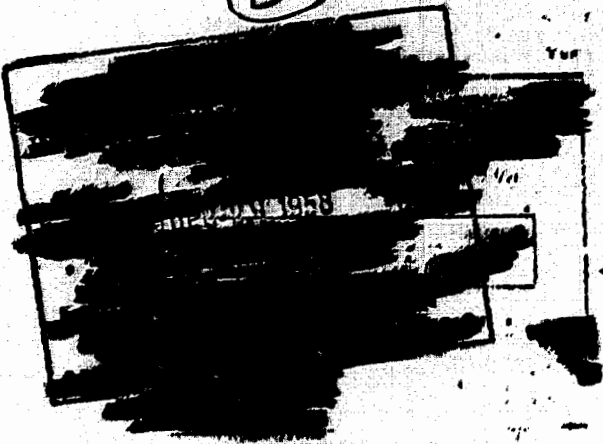
(E)

(E)

(C)

(C)

(E)



(B)

December 12 1958 No. [redacted] (E)

[redacted] (E)

[redacted] (E)

Pay to the order of [redacted] (C) \$100<sup>00</sup>

One hundred and 00/100 Dollars

Xmas Bonus [redacted] (B)

[redacted] (C)

[redacted] (H)

AUTHORIZED SIGNATURE

Pay to the order of

One hundred and 00/100

Dollars

Xmas Bonus

AUTHORIZED SIGNATURE

(B)

December 22 1958 No.

(E)

(E)

Pay to the order of

(C)

\$50<sup>00</sup>

Feltip

<sup>00</sup>/<sub>100</sub> Dollars

Xmas Bonus

500000

(E)

(C)

PRINTED SIGNATURE

(C)

(E)

(E)

500000

500000

(C)

(E)

(E)

DEC 24 1958

(C)

December 23, 1958 No.

(E)

(E)

Pay to the order of

(C)

\$268 <sup>97</sup>/<sub>100</sub>

Two hundred and sixty eight

97/100 Dollars

Xmas Bonus

(B)

(C)

AUTHORIZED SIGNATURE

(A)

(E)

(E)

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

(A)

(E)

(E)

(C)

(E)

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(A)

السيد  
عبد الله

[REDACTED]

[REDACTED]

...

AUTHORIZED SIGNATURE

	1	5	0	3	0	✓
	1	6	8	1	0	✓
	2	0	8	3	5	✓
		9	7	5	0	✓
	2	0	8	3	3	✓
	1	0	0	0	0	✓
				0	0	
				0	0	
	9	3	2	5	0	✓
	<u>120.00</u>					
	1052.60					

January 30 1959 No. [redacted]

Pay to the order of

One Hundred and fifty



\$150<sup>30</sup>

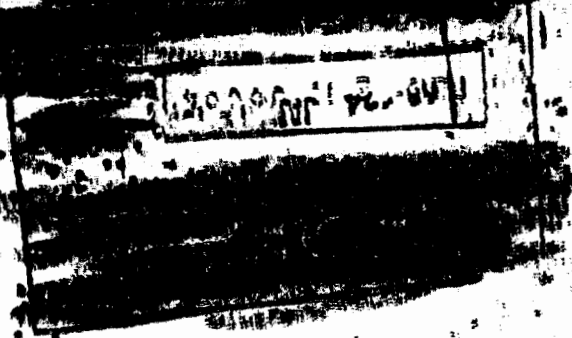
30 Dollars

B

B

C

E



E

February 30 1959

Pay to the order of

- C

\$168<sup>10</sup>

One hundred and sixty-eight

and 10/100 Dollars

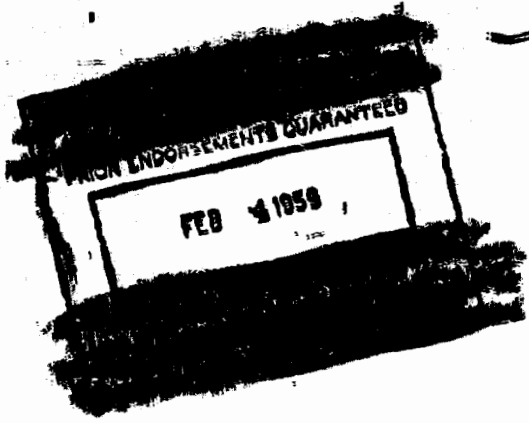
Salary

B

B

- C

- E





-E-

3 05 24 215

C

F

January 30 1959 No

Pay to the order of

-C

\$209

Two hundred and ninety

and no/100

Salary

B

B

E

February 30 1959 No.

Pay to the order of

\$ 97.50

100 Dollars

Salary

B

B

E

FEB 30 1959

January 30 1959 No.

Pay to the order of

C E \$ 208 <sup>35</sup>

Two hundred and eight

<sup>35</sup> 100 D.D. 111

Salary

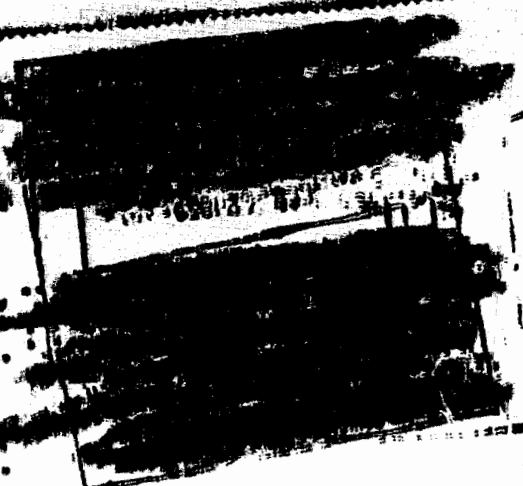
E

B

B

C

E



Grid of small black dots, possibly a barcode or tracking mark.

C E

[Redacted]

[Redacted]  
[Redacted]  
[Redacted]  
[Redacted]

488 28 69 82 884

E

[Redacted]

[Redacted]  
[Redacted]  
[Redacted]

100<sup>00</sup>

One hundred Dollars

Salary

B

B

January 15 1959 No.

Pay to the order of

One hundred twenty

\$120<sup>00</sup>

00/100 Dollars

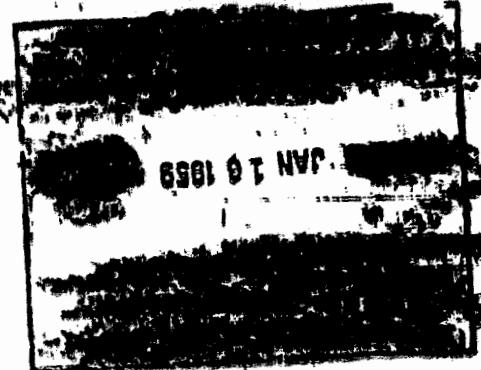
prohibitory

E

B

B

E



C

45-7

1	2	1	9	0	0
2	0	5	3	0	0
0	9	0	6	0	0
8	7	1	6	0	0
8	7	1	6	0	0
9	9	5	3	0	0
1	9	7	3	0	0
4	0	0	4	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

USIU  
1\*

E

[Redacted]  
 [Redacted]  
 [Redacted]  
 [Redacted] - C \$100<sup>00</sup>  
 [Redacted] 00 Dollars  
 [Redacted]  
 Consultant

B

B

E

[Redacted]  
 [Redacted]  
 [Redacted]  
 [Redacted]  
 [Redacted]

E

[Redacted]  
 [Redacted]  
 [Redacted]  
 [Redacted]  
 [Redacted]

B

November 27 1955 No.

Pay to the order of

One hundred and fifty dollars

Salary

53 Dollars

B

B

C

E



E

November 29 1958 No. [redacted]

[redacted]

Pay to the order of [redacted] - C - \$97 75

[redacted] \$97 75

[redacted] 100 Dollars

[redacted] Salary

B

B

C

[redacted]

[redacted]

DEC 9 58 00004

- E

[REDACTED]

[REDACTED]  
[REDACTED]  
DEC 3 1958  
[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED] *Remittance* [REDACTED]  
[REDACTED]  
[REDACTED]  
Pay to the order of [REDACTED]  
Five hundred and no/100 Dollars  
Salary [REDACTED]

E

100.00 / 100.00 / 100.00 / 100.00 / 100.00

Pay to the order of

100.00

hundred and no/100th

98 Dollars

E

John Doe

[Redacted]

B

B

E

[Redacted]

[Redacted]

C

[Redacted]  
 [Redacted]  
 [Redacted]  
 [Redacted] - C [Redacted]  
 [Redacted]  
 [Redacted] Dollars  
 [Redacted]  
 [Redacted]

B

B

[Redacted]  
 [Redacted]  
 [Redacted]  
 [Redacted]  
 [Redacted]  
 [Redacted]  
 [Redacted]  
 [Redacted]  
 [Redacted]

C

- E

√	1	0	0	0	0	C
√	2	0	8	9	7	√
	1	6	9	1	0	√
	2	0	8	9	7	√
	1	5	1	5	2	√
		9	7	7	5	√
				0	0	
				0	0	
	9	3	6	3	1	#

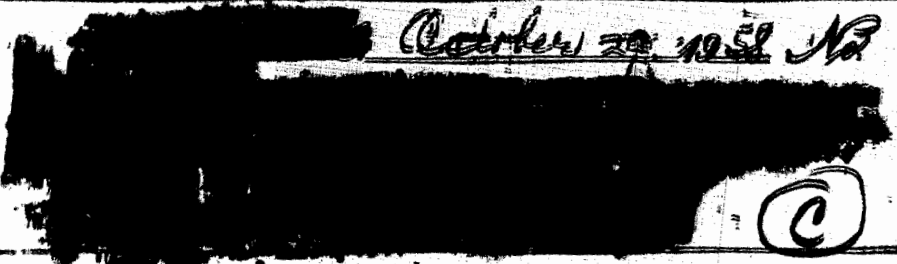
C



NOV 5 252

E

D



October 29, 1958 No. [redacted]

E E E

Pay to the order of

(C)

One hundred

Dollars

Consistent

B

C



B

October 27 1958 No. [redacted]

E

E

E

C

27

Salary

77 Dollars

B

AUTHORIZED SIGNATURE

C

E

E

[redacted] 6901 09.6

1621000 29 Nov 58

E

E

Pay to the order of

C

\$ 167.00

One hundred and sixty seven and no/100

167 Dollars

B

Salary

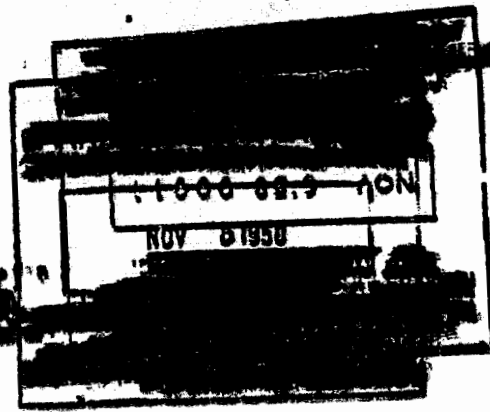
C

WORKING SIGNATURE

C

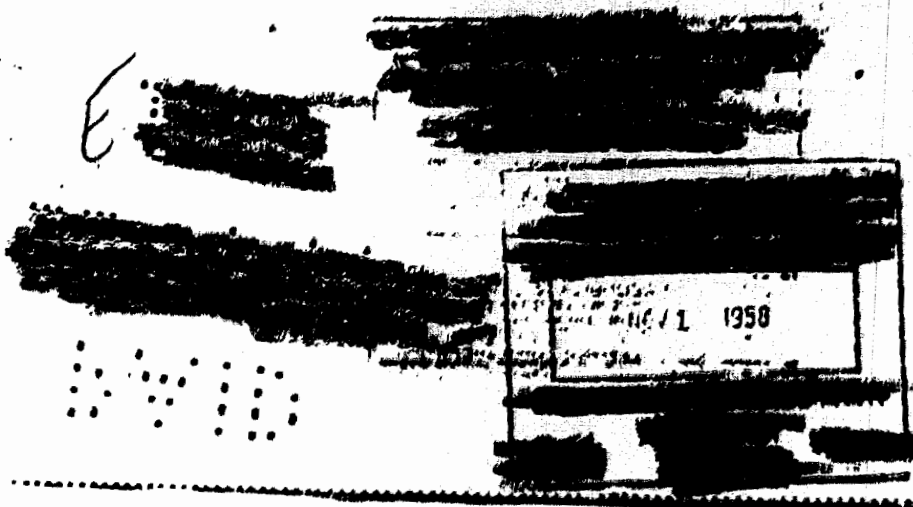
E

E





E



E

Medical weight 12.51 No

Salary

97 Dollars

3

C

B

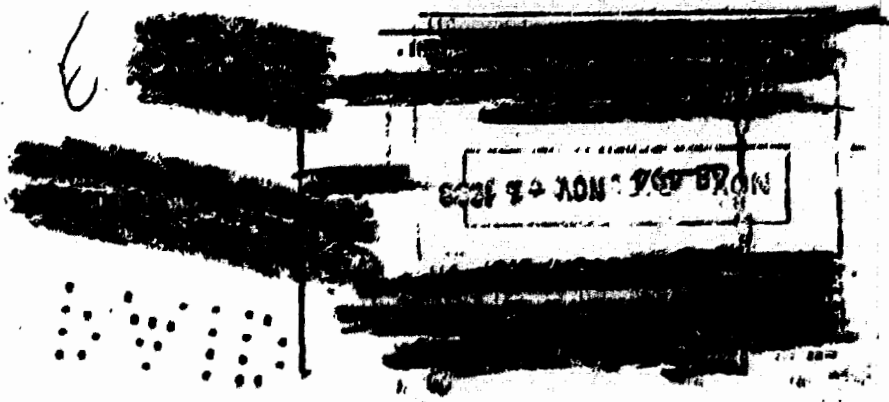
C

8205

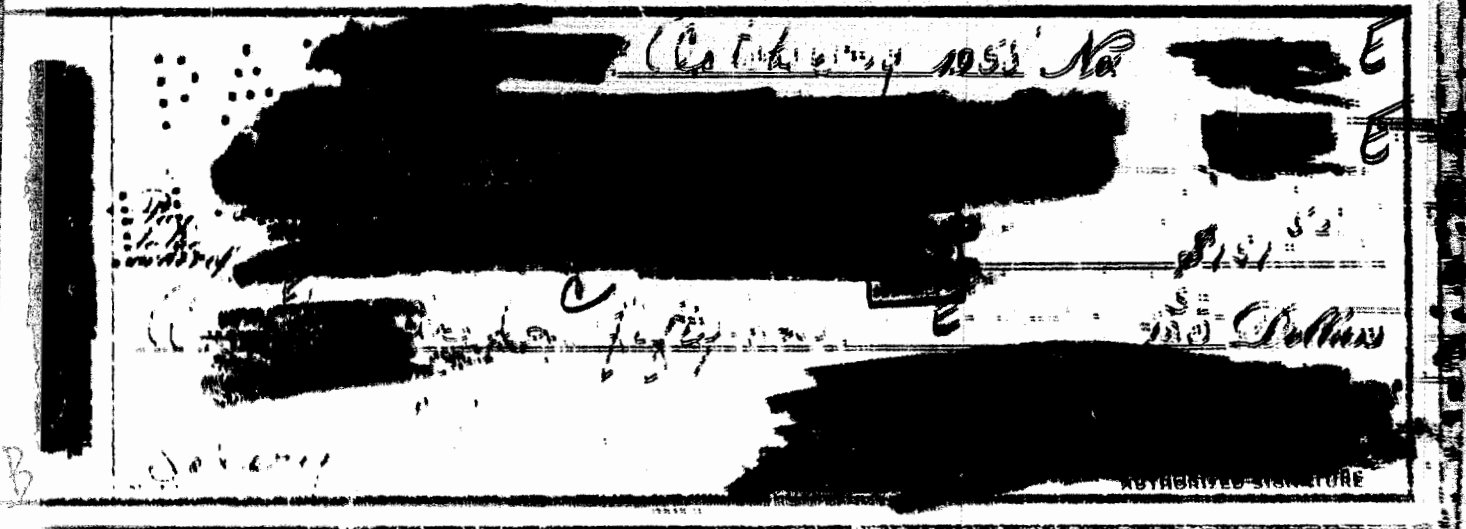
Authorized signature

C

E



NOV 2 1953



Columbia 1953 No

11/1  
Dollars

AUTHORIZED SIGNATURE

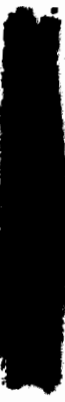
B

[Redacted] (Circular) No. 58 No. [Redacted] E  
 [Redacted] E [Redacted] E  
 [Redacted] C \$97  
 [Redacted] ty - [Redacted] Dollars  
 [Redacted] B [Redacted]  
 [Redacted] C [Redacted] AUTHORIZED SIGNATURE  
 B Salary

[Redacted]  
 [Redacted]  
 [Redacted] 1966 OCT 26 AM 11:00  
 [Redacted] E

45-9

B



*Part to the order of*

*Pay to the order of*

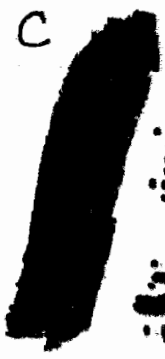
*Five hundred and no/100 Dollars*

*Five hundred and no/100*

*Five hundred and no/100*

*Five hundred and no/100*

9 2 11 2 11  
 5 0 9 9 5 0  
 9/ 8 8 7 8 1 0  
 5 0 0 6 7 6 7 5 0 0 0 0  
 4 0 0 0 8 5 8 5 0 0 0 0  
 1# 1 1 1 1 1 1 1 1 1 1 1 1



*AGN*

*AGN*

*AGN*

*AGN*

September 30, 1958 No. [REDACTED]

Pay to the order of

One [REDACTED] and a fifty-cent  
Salary [REDACTED]

\$151<sup>53</sup>

<sup>53</sup>/<sub>100</sub> Dollars

B  
C

C

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

E

10 85¢ 100

For Deposit

[Redacted]

[Redacted]

E

B

[Redacted]

[Redacted]

\$169

Debit

B

C

*[Faint, mostly illegible handwriting]*

**B** *[Vertical scribble]*

*[Large horizontal scribbles]*

**E** *[Small scribble]* **E**

*[Horizontal scribbles]*

*[Horizontal scribbles]*

*[Horizontal scribbles]*

**C** *[Horizontal scribbles]*

**C**

*[Vertical scribble]*

*[Horizontal scribbles]*

*[Horizontal scribbles]*

*[Horizontal scribbles]*

**E**

*[Large rectangular scribble]*

*[Horizontal scribbles]*

*[Horizontal scribbles]*

45-9

September 30, 1958 No. [REDACTED] E [REDACTED] E  
 [REDACTED]  
 [REDACTED]  
 [REDACTED] seven [REDACTED]  
 [REDACTED]  
 Salary [REDACTED]

897 75  
 75  
 168 00

In deposit only  
 [REDACTED]

[REDACTED]  
 [REDACTED]  
 [REDACTED]  
 [REDACTED]  
 [REDACTED]

1958-9-30

[REDACTED]



45-9

September 30 1955 No. [redacted] e

Paid  
to the  
order of

\$ 208<sup>98</sup>

Two hundred and eight

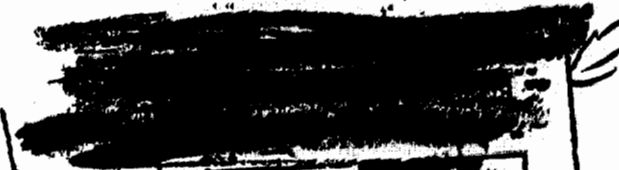
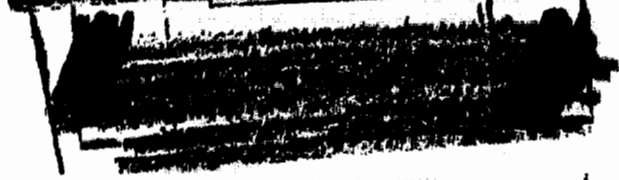
<sup>98</sup> Dollars

Seize


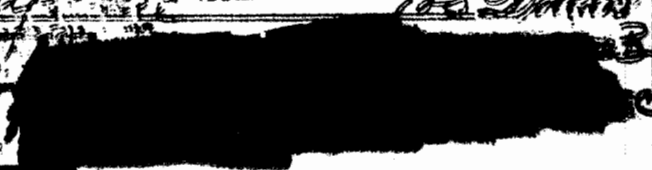
6

c

e

  
 APR 22 1958  


1	4	3	1	5	C	
2	7	9	3	5	V	
2	9	5	7	8	V	
2	0	8	9	7	V	
1	6	9	7	5	V	
1	0	9	1	0	V	
2	0	0	0	7	V	
1	3	0	3	0	0	#1
						2
						7

R  
 Washington, D.C. August 24 1958 No. 1504  
  
 Pay to the order of  
 One hundred and fifteen Dollars  
 Solway  


MAIL ROOM	MAIL ROOM
MAIL ROOM	MAIL ROOM
MAIL ROOM	MAIL ROOM
MAIL ROOM	MAIL ROOM
MAIL ROOM	MAIL ROOM
MAIL ROOM	MAIL ROOM
MAIL ROOM	MAIL ROOM
MAIL ROOM	MAIL ROOM
MAIL ROOM	MAIL ROOM
MAIL ROOM	MAIL ROOM
MAIL ROOM	MAIL ROOM
MAIL ROOM	MAIL ROOM

Washington, D.C. August 27, 1958 No. 1505

Seventy-nine  
Dollars

\$79.25  
Dollars

AUTHORIZES SIGNATURE

45-10

[REDACTED]

FOR DEPOSIT ONLY  
ANY BANK, BANKER OR TRUST CO.  
PAY TO THE ORDER OF

10196 0822 1958

OF WASHINGTON D.C.

[REDACTED]

10196 0822 1958

10196 0822 1958

By

Washington D.C. August 20 1958 No 1506

[REDACTED]

Pay to the order of

[REDACTED]

75

75

hundred and no/100 --- 75 Dollars

[REDACTED]

AUTHORIZED SIGNATURE

45-19

*C*  
*E*  
*In Dept.*

WASHINGTON, VIRGINIA  
SEP 5 5 59 AM '57  
OFFICE OF THE DIRECTOR OF THE BUREAU OF INVESTIGATION  
U.S. DEPARTMENT OF JUSTICE

*P*  
Washington, D.C. *1258 No* 1507  
*E*  
*97*  
*100*  
*100*  
*100*

W.B. [unclear] 29 - 10.5.6. No. 1508

B  
[Redacted]

[Redacted]

[Redacted]

897 75

New [Redacted]

D. D. [unclear]

[Redacted]

[Redacted]

STEEB SIGNATURE

To deposit only

[Redacted]

AL BANK  
WANTED  
[Redacted]  
PAY TO THE ORDER OF  
[Redacted]  
[Redacted]  
[Redacted]

Washington, D.C. August 24, 1958 No. 1509

Pay to the order of  
[Redacted]  
[Redacted]  
[Redacted]

[Redacted]  
[Redacted]

[Redacted]

One hundred and eighty-nine

\$ 109.00

10 Dollars

[Redacted]

[Redacted Signature]

See Report  
[Redacted]

[Redacted Stamp]

*De* *Sept 29 1958* No. 1510

*to the* [REDACTED]

*Consultant*

*100.00*

*100.00 - Dollars*

*[Signature]*

REGISTERED SIGNATURE

[REDACTED]

SEP 30 1958

[REDACTED]

[REDACTED]



Washington, D.C. August 29 1958 No. 1511

[REDACTED]

Pay to the order of

[REDACTED]

\$208.27

Two hundred and eight

and 27/100 Dollars

Salary

[REDACTED SIGNATURE]

REGISTERED SIGNATURE

[REDACTED]

AMERICAN BANK NOTE CO.  
PRIOR ENDORSEMENT REQUIRED  
SEP 3 1958  
[REDACTED]

B

July 31

1958

Vol

[Redacted]

E

Proctor  
Company

Handbook for quiet

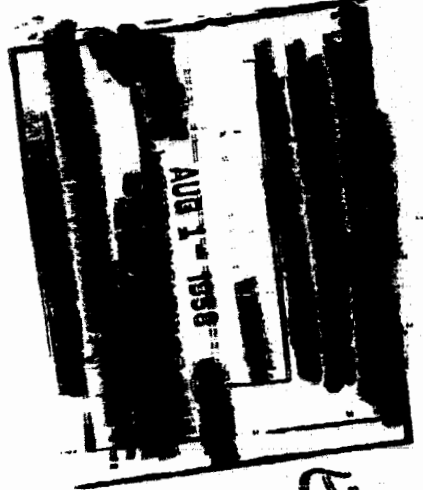
H. G. Collins

Selaway

APPROVED SIGNATURE

#1

2	1	4	3	9	5	5	0	0
1	6	9	7	7	5	0	0	0
1	9	9	8	9	7	0	0	0
2	9	8	9	9	7	0	0	0
9	2	7	9	9	0	0	0	0



[Redacted text block]

E

E

July 31 1958 No.

[REDACTED] E [REDACTED] E  
[REDACTED] C  
[REDACTED] hundred forty-three  
[REDACTED] E B [REDACTED]  
[REDACTED] E C [REDACTED]

\$ 143 <sup>15</sup>/<sub>100</sub> Dollars

B

c E  
[REDACTED] E  
[REDACTED] [REDACTED] [REDACTED]  
[REDACTED] [REDACTED] [REDACTED]  
[REDACTED] [REDACTED] [REDACTED]  
[REDACTED] [REDACTED] [REDACTED]  
[REDACTED] [REDACTED] [REDACTED]  
[REDACTED] [REDACTED] [REDACTED]

1958 - [REDACTED] [REDACTED] [REDACTED]

[Redacted] July 31 1958 No. [Redacted] E  
 [Redacted] E  
 [Redacted] C \$169.12  
 One hundred and sixty nine [Redacted] Dollars  
 Salary [Redacted] B  
 [Redacted] C

[Redacted] E  
 [Redacted] E  
 [Redacted] AUG 9 1958  
 [Redacted]

E

E

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

AUG -4 1958

AUG 4 58 00312

[Redacted]

B

[Redacted]

[Redacted]

July 31 1958

[Redacted] E

[Redacted] E

Pay to the order of

[Redacted]

[Redacted]

C

\$97.75

[Redacted]

[Redacted]

75 Dollars

Salary

[Redacted]

[Redacted]

July 31 1956 No. E

Pay to the order of

One Hundred

Consultant

\$100.00

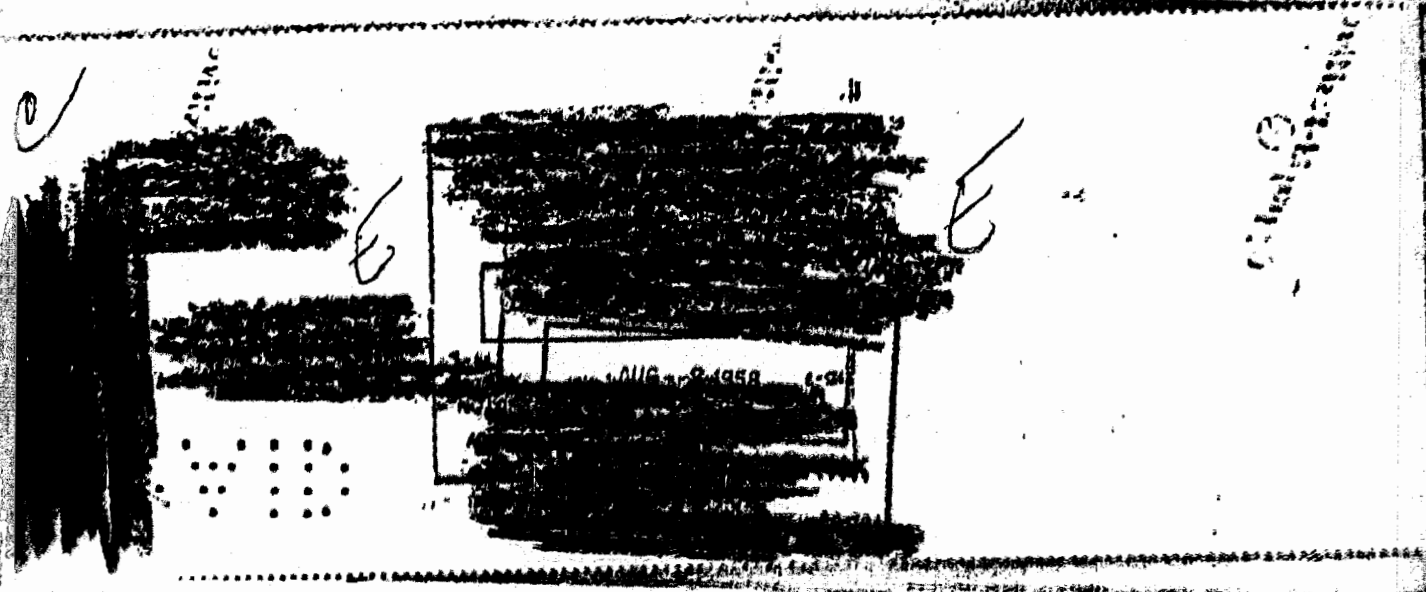
Dollars

C B

E

[Redacted]

C



7

Sub 431 1958 No. E

8208 17

97

Salary

2009

This section contains several lines of text, many of which are redacted with black ink. The visible text includes a reference number 'Sub 431 1958 No. E', a date '8208 17', a handwritten number '97', and the word 'Salary'. There is also a vertical stamp or number '2009' and a handwritten letter 'B'.

B

[Redacted vertical bar]

[Redacted header area]

1958 Nov

E  
E

Pay  
to the order of

[Redacted payee name]

C

\$169<sup>10</sup>

City - mine

10 Dollars

Salary

E

B

[Redacted signature area]

AUTHORIZED SIGNATURE

H

[Redacted vertical bar]

C

E

[Microfilm perforations]

[Redacted area with stamp]

NOV 26 1958

E

[Redacted vertical bar]

1057500  
1157500  
9287800  
6405000  
11221

#1  
003  
003  
7  
2  
9

[Redacted box]



B

June 30 1958 No.

[Redacted]

20  
let's see  
accuracy

143<sup>15</sup>

One hundred - forty - three

15 Dollars

[Redacted]

[Redacted]

[Redacted]  
[Redacted]  
[Redacted]  
[Redacted]

[Redacted]



*B*

*June 30 1958 No.*

*E*

*E*

*75*

*75 Dollars*

*C*

*E*

*B*

*Authorized Signature*

*Pay to the order of*

*Salary*

*For deposit only*

*C*

*E*

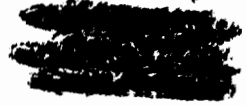
*JUL 7 1958*

*JUL 7 58*

*E*

C

E



JUN 27 1958

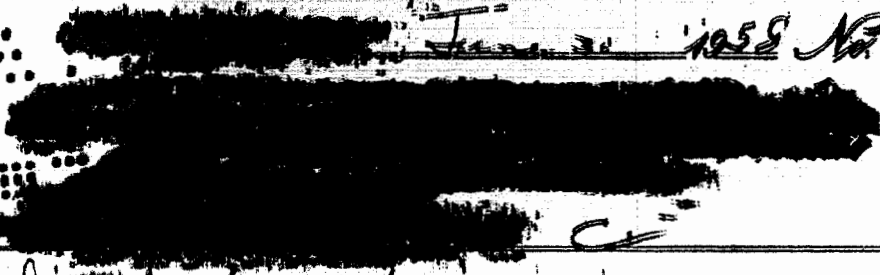
E

Handwritten text in Braille

B



Handwritten text in Braille



June 27 1958 No.

E

208

Handwritten text in Braille

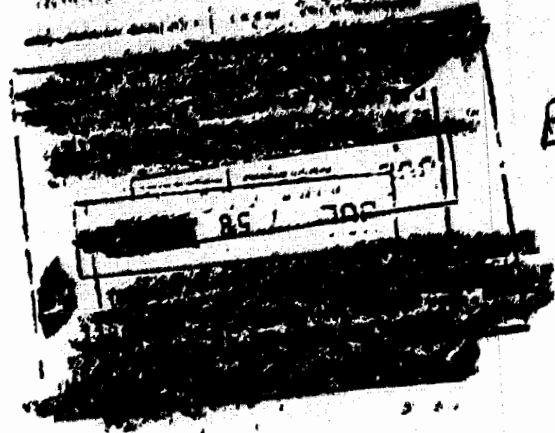
98 Dollars

Salary

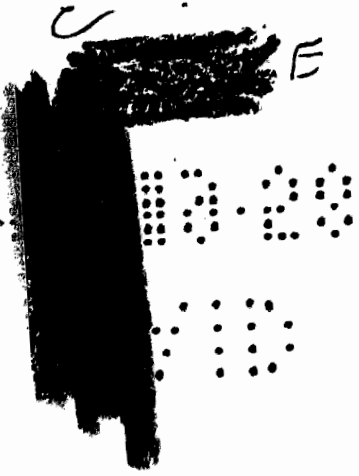
E

B





FD



B

June 30, 1958 No

Year  
for  
period

\$100.00

hundred

00 Dollars

Consultant

B

1258 No. 1468

(D)

Pls. list a  
union

One Hundred [redacted]  
Twenty [redacted]  
Sixty [redacted]

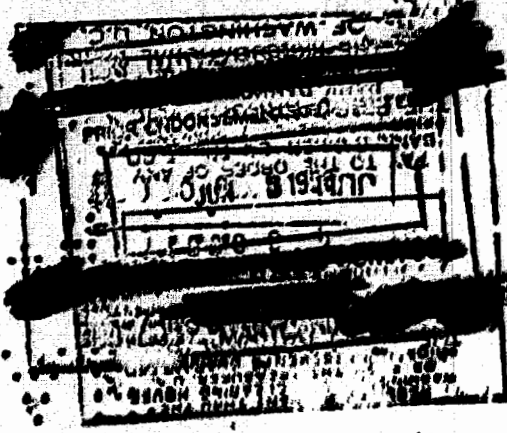
\$ 143 <sup>15</sup>/<sub>100</sub>

15 Dollars

U	U	U	U	#1
0	0	0	0	5
0	0	0	0	9
3	9	8	7	0
1	4	6	9	0
1	2	2	1	9
				2
				7

PAID  
 NOV 19 1958  
 U.S. DEPARTMENT OF JUSTICE

For Myself



Washington, D.C. May 29 1958 No 1469

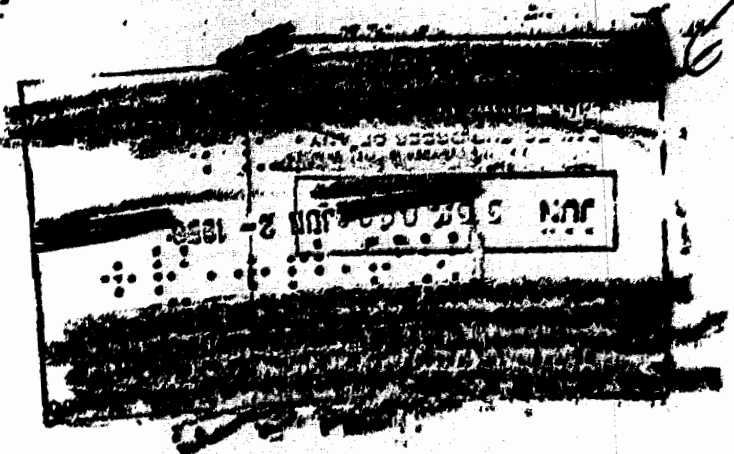
(D)

Are hereby  
Salary

\$ 189<sup>10</sup>

10 Dollars

RECORDED SIGNATURE



34

Washington, D.C. May 29 1951 No. 1470

Pay to the order of

Two hundred and fifty  
Dollars

\$ 208.98

98 Dollars

AUTHORIZED SIGNATURE



45-13

F1 FOR DEPOSIT ONLY

JUN 2 - 1958



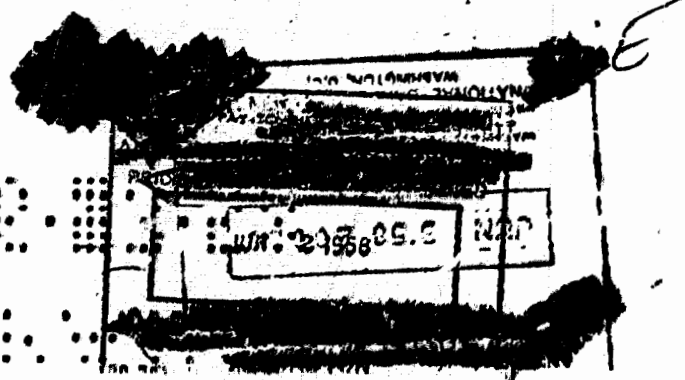
Washington, D.C. *Washington, D.C.* No. 1471

*Pay to the order of*

*Ninety-seven*  
*Salary*

*\$ 97<sup>75</sup>*  
*100 Dollars*

For deposit  
11/11



E

11/11

Washington, D.C. May 2, 1958 No. 1472

Pay to the order of [Redacted]

Two hundred and eight <sup>97</sup>/<sub>100</sub> Dollars

Salary [Redacted]

AUTHORIZED SIGNATURE [Redacted]

45-13

C  
1-13-58

[REDACTED]

JUN 1 1958

[REDACTED]

B

Washington, D.C. May 29 1958 No 1473

[REDACTED]

Pay to the order of

[REDACTED]

\$ 100<sup>00</sup>

One hundred

00 Dollars

Consultant

[REDACTED]

REQUIRE SIGNATURE

(B)

April 30 1957 No. [redacted]

(E)

Pay to the order of

\$ 169<sup>10</sup>

(C)

One hundred and sixty-nine and 10/100 Dollars

Salary

CHAS

(B)

(C)

AUTHORIZED SIGNATURE

10	5	7	5	8	0	0	0	5
9	3	8	7	9	0	0	0	9
1	6	4	9	8	0	0	7	9
1	2	9	2	0	1	9	2	7

(C)

Don Wood

(E)

[redacted]

MAY 2 1957

[redacted]

11-10-57

(D)

April 30 1958 No. [redacted]

(E)

20  
[redacted]

(C)

\$ 143<sup>15</sup>

[redacted] hundred forty-three

15 Dollars

Salary

(B)

(C)

WYLS

(C)

(E)

Yokel Deposit - Cash

[redacted]	[redacted]	[redacted]
[redacted]	MAY 1 - 1958	[redacted]
[redacted]	[redacted]	MAY 2 1958
[redacted]	[redacted]	[redacted]

Capital 3:0 1958 No. [redacted]

(E)

Pay to the order of

(C)

\$208<sup>91</sup>

Two hundred and eight

97 Dollars

Salary

(B)

(C)

AUTHORIZED SIGNATURE

(C)

(E)

[redacted] MAY 8 1958 [redacted]

(C)

(V)

(E)

[REDACTED]

REV. 9.58 0900

[REDACTED]

(b)

April 1958 No. [REDACTED]

Pay  
to  
order of

Ninety - [REDACTED]

Salary

(C)

(E)

\$ 97.75

25 [REDACTED]

(C)

(C)

THE BUREAU OF STATISTICS

(B)

5/14/21-14

Am. 30 Wash No.

(E)

Pay  
to the  
order of

(C)

\$208<sup>98</sup>

Two hundred and ~~no~~ <sup>eight</sup>

98 Dollars

Salary

(B)  
(C)

RED SIGNATURE

(C) (C)

(E)

MAY 6 1921



Ⓒ

[Redacted vertical text]

[Redacted text]

Ⓔ

[Redacted text]

[Redacted text]

Ⓔ

U.S. AIR FORCE

[Redacted text]

[Redacted text]

Ⓑ

[Redacted vertical text]

Ⓔ

May 5 1952

[Redacted text]

Ⓒ

[Redacted text]

Ⓔ

Paradise

[Redacted text]

Ⓒ

Ⓒ

c  
New Point  
[Redacted]

[Redacted] E

15	4
175	15
108	16
07	08
00	08
05	92
	7
	95

[Redacted]

B

[Redacted]

March 1958  
[Redacted] €  
[Redacted] €  
[Redacted] €  
[Redacted] 77  
[Redacted] 97  
[Redacted] 97  
[Redacted] B  
[Redacted] C

Pay to the order of

plc. any

45-15

C  
[Redacted]

[Redacted]

B  
[Redacted]

March 31 1958 No. [Redacted] E  
Pay to the order of [Redacted] = \$ 100<sup>00</sup>  
One hundred ——— Dollars  
Salary [Redacted] B  
[Redacted] C

March 31 1958 No. [redacted] E  
 [redacted] E  
 [redacted] C \$208.95  
 [redacted] B 98 Dollars  
 Salary C [redacted]

Pay  
to the  
order of

Two hundred and eight

Salary

[redacted]

[redacted] E  
 [redacted]  
 [redacted]  
 [redacted]  
 [redacted]  
 [redacted]  
 [redacted]

[redacted]

[REDACTED] 1958 No. [REDACTED]  
 [REDACTED] E  
 [REDACTED] E  
 Pay to the order of [REDACTED] C \$169 <sup>10</sup>/<sub>100</sub>  
 [REDACTED] 10 Dollars  
 [REDACTED] B  
 [REDACTED] C  
 AUTHORIZED SIGNATURE

[REDACTED] E  
 [REDACTED]  
 [REDACTED]  
 [REDACTED]

B

March 31 - 1954 No. [redacted]

Pay to the order of

Ninety-

Salary

\$97<sup>75</sup>

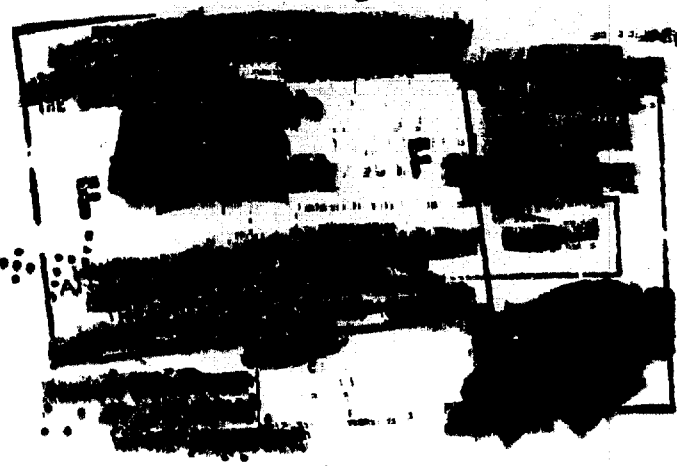
One Dollar

1954 7

1954 7

C

E



March 31 1958 No. [redacted] E

Pay to the order of

\$ 143<sup>15</sup>

One hundred & forty-three  
Dollars  
Salary

15 Dollars



*[Blacked out redaction]*

✓

PAID TO THE ORDER OF ANY BANK, BANKER OR ISSUING AUTHORITY  
I-1148 FEB 0014  
MAR 1 1958  
FARMERS & MERCHANTS BANK  
WASHINGTON, VIRGINIA

*Fell*

1	4	3	0	0	0	0	0	0	5
1	9	7	5	5	0	0	0	0	5
1	6	9	1	0	7	8	0	0	0
2	0	8	6	0	0	0	0	0	9
1	0	0	0	0	0	0	0	0	9
	9	2	7	0	0	0	0	0	0

U S # 1 U M I

*[Blacked out redaction]*

*Pay to the order of  
Cash*

*One hundred and 15/100 dollars*

*Selvey*

*[Blacked out redaction]*

Washington, Virginia February 28 1958 No. 1405

*[Blacked out redaction]*

*[Blacked out redaction]*

*[Blacked out redaction]*

*150 Dollars*

*\$ 143*

*15*

ADVANCED BANK/VINE

45-16



Washington, D.C. February 28 1958 No. 1406

W  
V

Post  
to be  
made by

Mr. [redacted]

Sub [redacted]

E

C

\$97.75

75 Dollars

AUTHORIZED SIGNATURE

RECEIVED PAYMENT THRU THE  
WASHINGTON PAYROLLING HOUSE  
ON FEBRUARY 28 1958

MAR 4 1958

AND BANK BRIDGES TRUST CO.  
WASHINGTON, D. C.

C

B

Washington, D.C. February 1958 No. 1407

[REDACTED]

Pay to the order of

[REDACTED]

\$169<sup>10</sup>/<sub>100</sub>

One hundred and sixty-nine

and 10/100 Dollars

[REDACTED]  
AUTHORIZED SIGNATURE

See beyond

[REDACTED]

PAY TO THE ORDER OF ANY BANKER OR TRUST COMPANY  
MEMBERS GUARANTEED  
[REDACTED]  
[REDACTED]  
[REDACTED]

[MICROFILMED]

For Deposit

PAY TO THE ORDER OF ANY  
 BANK PAYEE OR TRUST CO  
 MAR 4 - 1958  
 GUARANTEED  
 ORDER OF ANY

Washington, D.C. February 28, 1958. No

1408

Pay to the order of

Two hundred and eighty

Dollars

97

97 Dollars

AUTHORIZED SIGNATURE

*You deposit*

.....  
.....

PRESIDENTIAL DEPARTMENT OF THE  
 FEDERAL BUREAU OF INVESTIGATION  
 ANY BANK BANKER OR  
 22222 95.2  
 MAR 0 1958  
 RECEIVED

Washington, D.C. February 28, 1958 No. 1409

Pay to the order of

.....

200.00

.....

Eighty

100 Dollars

.....  
AUTHORIZED SIGNATURE

.....

Handwritten marks 'c' and '6' are present at the top of this section.

The block contains several large blacked-out redacted areas. A central rectangular stamp is visible, containing the text: "APR 25 1958". Below the stamp, there are some faint, illegible markings.

Handwritten address: "Washington, D.C. Street 1128 - 1958, In 1410".

The block contains several large blacked-out redacted areas covering the main body of the document.

Handwritten text "Page 6 of 10" is visible on the left side.

Handwritten text "Letters" is visible on the right side.

Small printed text "RECEIVED" is visible at the bottom right of the block.

*Withholding Tape  
Special Security*

1	7	4	1	0	0	C
1	7	4	1	0	0	C
1	7	4	1	0	0	C
1	7	4	1	0	0	C
1	7	4	1	0	0	C
2	5	5	3	2	2	C
1	7	5	9	8	8	C
1	7	5	7	5	5	C
1	7	5	9	8	8	C
1	7	5	9	4	4	C
1	7	1	6	6	6	C
			0	0	0	
			0	0	0	
2	1	7	4	3	4	C

872000 Washington, D.C. January 17, 1959 No. 1596  
 [REDACTED] E [REDACTED] E  
 Pay to the order of [REDACTED] B \$ 152  
 One [REDACTED] 100 Dollars  
 THIS CHECK IS IN PAYMENT OF AN OBLIGATION TO THE UNITED STATES AND MUST BE PAID AT PAR.  
 Withholding tax  
 TREASURER U.S. [REDACTED] B  
 AUTHORIZED SIGNATURE

[REDACTED] E  
 [REDACTED] E  
 PAY TO THE ORDER OF [REDACTED] E  
 U.S. DEPARTMENT OF THE TREASURY  
 WASHINGTON, D.C. 20548  
 FEDERAL RESERVE BANK OF WASHINGTON  
 [REDACTED] E  
 [REDACTED] E

45-17

Washington, D.C. March 7, 1958 No. 1423

is check, is in payment  
ligation to the

id money be paid at par, N. P. Co.

2 with

[REDACTED] E [REDACTED] E

\$174

[REDACTED] hundred & sixty-four. ----- 166 dollars

[REDACTED] with check to

[REDACTED] B

[REDACTED] E

0 1 2 3 4 5 6 7 8 9  
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

[REDACTED] P. 04  
[REDACTED] 5  
[REDACTED] 19 0 1 2 3 4 5 6 7 8 9  
[REDACTED] A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

E

E



45-17

BALTIMORE, MARYLAND

MAY 24 1958

1-21

MAY 15 58 15006

PAID TO THE ORDER OF  
ON RECEIVED PAYMENT THROUGH THE  
FEDERAL RESERVE BANK OF BALTIMORE

Handwritten numbers and symbols in a grid pattern.

Washington, D.C. 2058 No 1440

ENE

26142

\$174 <sup>10</sup>

Twenty-four Dollars

00000

James E. Lee Topes

C

Washington, D.C. May 7 1958 No. 1452

This check  
obligation  
and must

[REDACTED] E [REDACTED] E  
\$ 174<sup>10</sup>

One hundred seventy-four and 10/100 Dollars

withheld taxes

[REDACTED] E  
[REDACTED] E

UNITED STATES  
DEPARTMENT OF JUSTICE

MAY 19 58  
PAY TO THE ORDER OF

UNITED STATES  
DEPARTMENT OF JUSTICE

45-17

Classified

E

[REDACTED]

JUN 11 1958

U.S. DEPARTMENT OF JUSTICE

E

E

♡

Washington, D.C. June 10, 1958 No 1477

E

[REDACTED]

Classified

[REDACTED]

E

174-10

One hundred [REDACTED] Dollars

withheld taxes & Social Security

E

AUTHORIZED SIGNATURE

45-17

Washington, D.C. July 23 1958 No. 1486

[REDACTED]

E E

132111

B

Pay to the order of

DEPARTMENT OF ASSAULT

\$ 174<sup>00</sup>

One hundred and 00-0000 - four - Dollars

W. H. ...  
2 ...  
Capital, ...

[REDACTED SIGNATURE]

B

C

B

4  
[REDACTED]  
[REDACTED]  
[REDACTED]

FOR CREDIT TO THE  
PAY TO THE ORDER OF  
[REDACTED]  
[REDACTED]  
[REDACTED]

E

JUL 31 1958

45-11

Washington, D.C. August 8 1958 No. 1498

Five

[Redacted]

E

E

[Redacted]

E

\$174.10

One hundred seventy-four and 10/100 Dollars

AUG 13 1958

W. J. [Redacted]  
[Redacted]

E

[Redacted]

[Redacted]  
AUG 13 50 65065  
TO THE ORDER OF

E

E

Chk

1658 65065

WASHINGTON BUREAU

SEP 10 1958

1514

CHIEF OF BUREAU

Washington, D.C. September 10, 1958 No. 1514

Two hundred and fifty-five

SEP 10 1958  
W.H. Tolson

b

B  
C

Washington, D.C. October 22, 1958 No. 1527

[REDACTED] B [REDACTED] F  
[REDACTED] U \$175.98

Five \_\_\_\_\_ 98 Dollars

See also W. H. E  
September 1958

AUTHORIZED SIGNATURE

B

WIRE

FOR CREDIT TO THE
PAY TO THE ORDER OF
AMERICAN OVERSEAS BANKING CORP.
NEW YORK, N.Y.
100 WALL STREET
NEW YORK, N.Y. 10038

2001281058

*E*

[REDACTED]

206178 100

[REDACTED]

[REDACTED]

*E*

[REDACTED]

[REDACTED]

1402497 Washington, D.C. October 22 1958 No 1528

Pay to the order of

Three

withholding tax

*E*

*E*

C \$3<sup>75</sup>

75 Dollars

[REDACTED]

AUTHORIZED SIGNATURE

*B*



E

[REDACTED]

NOV 11 1958

[REDACTED]

E

Washington, D.C. November 4, 1958 No 1540

This check is the obligation to [REDACTED] and must be paid to [REDACTED]

NOV 11 1958

One hundred [REDACTED] 98 Dollars

W. H. Tolson - Act E

[REDACTED]

45-17

Washington, D.C. R.F. # 1058 No. 1555

PAID TO THE PAYEE  
BY DEPOSIT

[REDACTED] E E

has been paid in seventy-five <sup>94</sup> Dollars

DEL 10 1958  
Locate WH Tapes

[REDACTED] B C

[REDACTED] E

7700  
1000

AA	BB
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
09079	81
CREATING AND SIGNING	
[REDACTED]	
ADD TO THE CHECK OF	

E E

Washington, D.C. JAN 15 1968 No. 1597

*[Redacted]* E E

*[Redacted]* 10460 C

*[Redacted]* \$ 341 <sup>68</sup>

*[Redacted]* <sup>68</sup> Dollars

*[Redacted]*

*[Redacted]*

*[Redacted]*

*[Redacted]*

*[Redacted]*

*[Redacted]* C

*[Redacted]* E

1 2 3 4

5 6 7 8

*[Redacted]* E

*[Redacted]* C

*[Redacted]* E

*[Redacted]* III

JAN 20 59 20316

PAID TO THE ORDER OF

45-18

1.2000	0000	U
3000	0000	U
1.5000	0000	#

1.1000	0000	U
1.1000	0000	#

*Special  
2600*

REPORT OF EXPENDITURES

February 1, 1957 - January 31, 1958

Research Grants:

B B B	[REDACTED]	\$50,150.00	
	[REDACTED]	<u>1,605.00</u>	\$51,755.00
	[REDACTED]		12,381.31
	[REDACTED]		<u>4,591.95</u>
	[REDACTED] and Social Security		\$ 68,726.26
			16,917.65

Travel and Meetings:

C C C C C C	[REDACTED]	\$183.87	
	[REDACTED]	282.38	
	[REDACTED]	249.53	
	[REDACTED]	264.00	
	[REDACTED]	360.17	
	[REDACTED]	<u>539.33</u>	
			1,869.28

Special Chemicals:

B B B B B	[REDACTED]	6,280.00	
	[REDACTED]	2,526.21	
	[REDACTED]	270.80	
	[REDACTED]	517.40	
	[REDACTED]	<u>300.00</u>	
			9,894.41

Supplies:

B B B B B	[REDACTED]	1,633.83	
	[REDACTED]	231.00	
	[REDACTED]	522.02	
	[REDACTED]	131.76	
	[REDACTED]	<u>85.06</u>	
			<u>2,603.67</u>

Total

\$ 100,013.27

Sp # 45

Spicy  
Chilli

					.00	U
					.00	U
6	8	7	2	8	.26	U
1	6	9	1	7	.65	
	1	8	6	9	.28	
	9	8	9	4	.41	
	2	6	0	3	.67	
					.00	
					.00	
1	0	0	0	1	3	27 #

					2	5	7	4	0	C
					2	6	0	.00		
					3	0	0	.00		
					2	7	0	.80		
					2	5	2	6	.21	
					6	2	8	0	.00	
									.00	
					9	8	9	4	.41	#

Washington, D.C. 20540 11-19-79

[REDACTED]

E E  
B

Two hundred and seventy

1270.42

Special tickets

[REDACTED]

B  
C

Washington, D.C. 20540 11-19-79

[REDACTED]

E E  
B

Two hundred and

1270.42

Special tickets

[REDACTED]

B  
C

[REDACTED]

E E

[REDACTED]

B

[REDACTED]

B

[REDACTED]

B

B

Washington, D.C. Dec 1957. In 1300

[Redacted]

E E

B

... and ...

[Redacted]

B

B

C

Washington, D.C. Dec 1957. In 1202

[Redacted]

E E

B

[Redacted]

... and ...

[Redacted]

B

C

B



||

[REDACTED]

E E

B

[REDACTED]

B

B

[REDACTED]

B

2	4	0	0	.00
2	5	0	0	.00
1	5	8	0	.00
				.00
				.00
6	2	8	0	.00

1950

Washington, D.C.

(D)

[REDACTED]

E E E

The  
following

[REDACTED]

B

1950

C

One thousand five hundred

special chemicals

[REDACTED]

B

Washington, D.C. March 1, 1959

1959

(D)

[REDACTED]

E E E

The  
following

[REDACTED]

B

One thousand five hundred two hundred

special chemicals

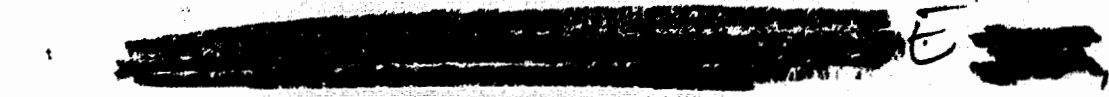
[REDACTED]

B

1	5	2	8	0	1	7	0	0	1	#
2	5	2	6	2	0	0	0	0	1	
3	5	2	6	2	0	0	0	0	1	
4	5	2	6	2	0	0	0	0	1	
5	5	2	6	2	0	0	0	0	1	
6	5	2	6	2	0	0	0	0	1	
7	5	2	6	2	0	0	0	0	1	
8	5	2	6	2	0	0	0	0	1	
9	5	2	6	2	0	0	0	0	1	
10	5	2	6	2	0	0	0	0	1	

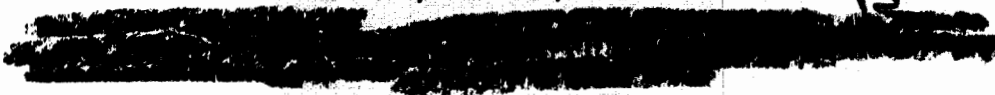


B

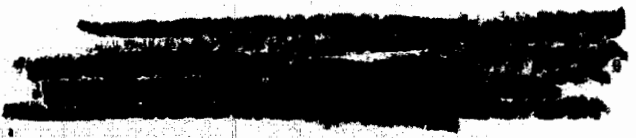


E

D



B



B

C

B



(D)

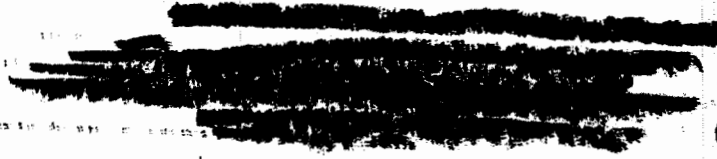


E

D



B



C

B

Washington, D.C.

1957 1233

[REDACTED]

E E

[REDACTED]

B

Washington, D.C.

[REDACTED]

B

[REDACTED]

L

B

[Redacted vertical text]

Washington, D.C. ...

[Redacted line] E E E

[Redacted line] C

Washington, D.C. ...

[Redacted line] B C

[Redacted vertical text]

Washington, D.C. ...

[Redacted line] E E E

[Redacted line] C

[Redacted line] B C

B

Washington, D.C. ... 1985

[REDACTED] E E

[REDACTED]

C

[REDACTED]

[REDACTED]

B

C

B

Washington, D.C. ... 1985

[REDACTED] E E

[REDACTED]

C

[REDACTED]

[REDACTED]

B

C

B

B

[REDACTED]

E E E

C

[REDACTED]

B

C

B

B

[REDACTED]

E E E

C

[REDACTED]

B

C

B

Washington, D.C. January 10, 1950

[REDACTED]

E E E  
E

Dear Mr. [REDACTED]:

[REDACTED] B  
[REDACTED] C

Washington, D.C. January 10, 1950

[REDACTED]

E E E

Dear Mr. [REDACTED]:

[REDACTED] B  
[REDACTED] C





45-21

Washington, D.C. December 22, 1957. to 1371

**[Redacted]**

**[Redacted]** E E

**[Redacted]**

C 1371

**[Redacted]**

**[Redacted]** B

B

Washington, D.C. December 23, 1957. to 1370

**[Redacted]**

**[Redacted]** E E

**[Redacted]**

C 1370

**[Redacted]** B

**[Redacted]** C

B

Memorandum for the Director, FBI, dated 10/15/57

**[REDACTED]**

**[REDACTED]** E E

**[REDACTED]**

C

10/15/57

Subject: [REDACTED]

**[REDACTED]** B

**[REDACTED]**

B

Memorandum for the Director, FBI, dated 10/15/57

**[REDACTED]**

**[REDACTED]** E E

**[REDACTED]**

C

10/15/57

Subject: [REDACTED]

**[REDACTED]** B

**[REDACTED]** C

B

*[Faint handwriting]*  
[Redacted] E E E  
[Redacted] C

*[Faint handwriting]*  
[Redacted] B  
[Redacted] C  
B

*[Faint handwriting]*  
[Redacted] E E E  
[Redacted] C  
[Redacted] B  
[Redacted] C  
B

Washington, D.C. November 21, 1957. In 1362

[REDACTED]

E E E

C

Dear Mr. [REDACTED]

[REDACTED] B

[REDACTED] C

B

Washington, D.C. November 21, 1957. In 1361

[REDACTED]

E E E

C

Dear Mr. [REDACTED]

[REDACTED] B

[REDACTED]

B

**[REDACTED]**

**[REDACTED]**

**[REDACTED]**

**[REDACTED]**

C

**[REDACTED]**

B

**[REDACTED]**

C

**[REDACTED]**

**[REDACTED]**

**[REDACTED]**

**[REDACTED]**

C

**[REDACTED]**

B

**[REDACTED]**

**[REDACTED]**

E E E

C

**[REDACTED]**

B

C

**[REDACTED]**

**[REDACTED]**

E E E

C

**[REDACTED]**

B

**[REDACTED]**  
B

**[REDACTED]** E E E  
**[REDACTED]** C  
**[REDACTED]** B

**[REDACTED]**  
B

**[REDACTED]** E E E  
**[REDACTED]** C  
**[REDACTED]** B



*[Faint, illegible handwriting]*

1000

*[Vertical scribbles]*

*[Redacted text]*

E E E

*[Redacted text]*

*[Handwritten mark]*

*[Faint handwriting]*

*[Redacted text]*

B  
C

B

*[Vertical scribbles]*

*[Redacted text]*

E E E

E

*[Redacted text]*

B  
C

B

Washington, D.C. [unclear] 1957. In 1956

(b) [redacted] E E E

[redacted] C

[redacted] [unclear] [unclear]

[redacted] B

[redacted] B

[redacted] E E E

[redacted] C

[redacted] B

[redacted] B



Vertical scribbles on the left margin of the top page.

Large horizontal blacked-out redaction covering the top half of the page.

E E

E

Horizontal blacked-out redaction on the right side of the top page.

B

C

B

Vertical scribbles on the left margin of the bottom page.

Large horizontal blacked-out redaction covering the top half of the page.

E E

✓

Horizontal blacked-out redaction on the right side of the bottom page.

B

C

B

[Redacted]

B

[Redacted] E E E C

[Redacted] B

[Redacted]

B

[Redacted] E E E C

[Redacted] B C

~~Vertical scribble~~

B

~~Horizontal scribble~~

E E E

C

~~Horizontal scribble~~

B  
C

~~Vertical scribble~~

~~Horizontal scribble~~

E E E

C

~~Horizontal scribble~~

B  
C

45-23

✓	5	8	8	7	5	1	0	0	5	0	1
✓	2	9	9	7	1	0	1	0	1	0	3
✓	5	8	8	7	9	0	3	3	3	3	3
✓	6	0	0	9	6	0	4	9	9	9	9
✓	1	2	2	1	1	1	4	1	0	9	3

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

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

EE

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

B

C

C

Washington, D.C. ... 1927. No. 1328

[Redacted text block]

Three hundred and ...

[Redacted text block]

B

Washington, D.C. ... 1929

[Redacted text block]

Three hundred and ...

[Redacted text block]

B  
C

B



Washington, D.C. 1957. No 1329

[REDACTED] E E  
[REDACTED] C

B

B

Washington, D.C. 1957. No 1324

[REDACTED] E E E  
[REDACTED] C

B

B

C

*[Vertical scribbles]*

*[Redacted text]*

*[Handwritten name]*

*[Handwritten name]*

*[Redacted text]*

(D)

*[Vertical scribbles]*

Washington, D.C. 10.17.15 1325

(D)

*[Redacted text]*

*[Handwritten name]*

*[Handwritten name]*

*[Redacted text]*

(D)

45-24

Huntington, S.C. September 20, 1951. No 1307

[Redacted]

E - E

B

[Redacted]

D

Dear Mr. ...

[Redacted]

B

[Redacted]

C

*[Signature]*

✓	✓	✓	✓	✓	✓	✓
2	2	2	2	2	2	2
1	1	1	1	1	1	1
4	4	4	4	4	4	4
3	3	3	3	3	3	3
5	5	5	5	5	5	5
5	5	5	5	5	5	5
0	0	0	0	0	0	0
1	1	1	1	1	1	1

1 3 7 2 5 0 0 1

45-24

*Handwritten text, possibly a name or address, partially obscured by a thick black redaction bar.*

*Redacted line of text.*

*E E*

*Redacted line of text.*

*E*

*Handwritten text, possibly a name or address, partially obscured by a thick black redaction bar.*

*Redacted line of text.*

*B*

*C*

*B*

Washington, D.C. September 22, 1957. No. 1317

*[Vertical handwritten text, possibly a name]*

*[Redacted line]* E E

*[Redacted line]* C

*[Redacted line]* B

*[Redacted line]*

Washington, D.C. September 22, 1957. No. 1318

*[Vertical handwritten text, possibly a name]*

*[Redacted line]* E E

*[Redacted line]* C

*[Redacted line]* B C

*[Vertical scribbled text]*

*[Redacted text block]*

*E E E*  
*C*

*[Redacted text block]*

*B*  
*C*

*B*

*[Vertical scribbled text]*

*Washington, D.C. ... 1948*

1948

*[Redacted text block]*

*E E E*

*C*

*[Faint handwritten text]*

*[Redacted text block]*

*B*

*B*

*C*

Washington, D.C. December 2, 1813

**[REDACTED]** E E

**[REDACTED]**

C

Dear Sirs  
I have the honor to acknowledge the receipt of your letter of the 27th inst. in relation to the  
proceedings of the Court of Claims in the case of the **[REDACTED]**

**[REDACTED]**

B

C

Washington, D.C. December 10, 1813

**[REDACTED]** E

**[REDACTED]**

C

**[REDACTED]** B  
C

**[REDACTED]**

B

**[REDACTED]**

B





Washington, D.C. ... 1962

[Redacted]

[Redacted]

... ..

[Redacted]

[Redacted]

B

B

C

Washington, D.C. ... 1962

[Redacted]

[Redacted]

... ..

[Redacted]

[Redacted]

B

B

C

Washington, D.C. 1237

[REDACTED]

E [REDACTED] E

[REDACTED]

75  
1200

Washington, D.C.

[REDACTED]

B  
C

D

Washington, D.C. 1300

[REDACTED]

E [REDACTED] E

[REDACTED]

C 1200

Washington, D.C.

[REDACTED]

B  
C

D

Handwritten text, possibly a date: 1957.1.10 1955

Large redacted area consisting of several thick black horizontal bars covering multiple lines of text.

C

Large redacted area consisting of several thick black horizontal bars covering multiple lines of text.

B

Vertical redacted area consisting of several thick black vertical bars on the left side of the page.

*[Vertical scribble]*

*[Redacted text]*

*E E*

*C*

*[Redacted text]*

*B*

*C*

*[Vertical scribble]*

*[Redacted text]*

*E E*

*C*

*[Redacted text]*

*B*

*C*

*B*

السجل

			00	C
			00	C
			00	C
1	6	5	24	✓
	9	7	75	✓
2	0	8	98	✓
1	3	5	57	✓
1	4	9	76	✓
2	0	8	98	✓
1	0	0	00	✓
			00	
			00	
1	0	6	6	28
				#

Washington, D.C. 20540

[Redacted]

[Redacted]

00000

45.26

129

[Redacted text block]

E E

[Redacted text block]

B

[Redacted text block]

E

[Redacted text block]

B

[Redacted text block]

[Redacted text block]

45-26

[Redacted]

B

[Redacted]

E

C

[Redacted]

B  
D

[Redacted]

B

[Redacted]

[Redacted]

D

[Redacted]

C

45-27

*Handwritten scribble*

1	169	057	000	000	000
1/2	124	898	799	599	878
1/2	115	500	000	000	000
1/2	110	000	000	000	000
1	107	536	000	000	000

*[Redacted]*

*[Redacted]* *[Redacted]* *[Redacted]* *[Redacted]*

*[Redacted]* *[Redacted]* *[Redacted]*

*[Redacted]*

*[Redacted]* *[Redacted]* *[Redacted]*

*[Redacted]* *[Redacted]*



[Redacted]

B

[Redacted]

E E

C

[Redacted]

B  
C

[Redacted]

B

[Redacted]

E E

C

[Redacted]

B  
C

[Redacted]

B

[Redacted]

E

[Redacted]

[Redacted]

C

[Redacted]

C

[Redacted]

B

[Redacted]

E

[Redacted]

C

[Redacted]

B

C

[Redacted vertical text]

B

[Redacted horizontal text]

E

[Redacted horizontal text]

C

[Redacted horizontal text]

F

[Redacted vertical text]

B

[Redacted horizontal text]

E

[Redacted horizontal text]

C

[Redacted horizontal text]

C



[Redacted vertical text]

B

[Redacted horizontal text]

E [Redacted] E

C

[Redacted horizontal text]

B  
C



[Redacted vertical text]

B

[Redacted horizontal text]

E [Redacted] E

C

[Redacted horizontal text]

C

[Redacted vertical text]

[Redacted horizontal text]

E [Redacted] E

C

[Redacted horizontal text]

[Redacted vertical text]

[Redacted horizontal text]

E [Redacted] E

C

[Redacted horizontal text]

B.

C

[Redacted vertical text]

B

[Redacted vertical text]

B

[Redacted horizontal text] E

[Redacted horizontal text] B  
E

[Redacted horizontal text] E  
[Redacted horizontal text] C

[Redacted horizontal text] B  
C

~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~  
B

~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~  
E ~~\_\_\_\_\_~~ E

~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~  
B  
C

~~\_\_\_\_\_~~  
B

~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~  
E ~~\_\_\_\_\_~~ E  
C

~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~  
D  
C



45-29

9	✓	42112	✓
5	✓	50340	
6	✓	738508	
200		729575000	
800		548768000	

NUM N

*John*

Washington, D.C. 1957. 12 1953

**[REDACTED]** **E E**

**[REDACTED]** **L** **1208**

*The hundredth...*

**[REDACTED]**

**[REDACTED]**

**[REDACTED]**

**[REDACTED]**

6

[Redacted vertical text]

[Redacted horizontal text]

E E

[Redacted horizontal text]

C

Washington, D.C. [Redacted] No. 1230

[Redacted horizontal text]

B

[Redacted vertical text]

Washington, D.C. [Redacted] No. 1230

[Redacted horizontal text]

E E

Pay to the order of

[Redacted horizontal text]

C

Check No. [Redacted] \$ [Redacted]

Subscribing

[Redacted horizontal text]

B

[Redacted vertical text]

Washington, D.C. [Redacted] No. 1230

[Redacted horizontal text]

E E

Pay to the order of [Redacted] \$ [Redacted]

C

[Redacted horizontal text]

B

45-29

Washington, D.C. April 29, 1957. No. 1228

(D) [Redacted] E E

5420

Pay to the order of [Redacted] \$ 155.00

One hundred and fifty five and 00/100 Dollars

Wm. Lee [Redacted] B C

AUTHORIZED SIGNATURE

Washington, D.C. April 29, 1957. No. 1232

(D) [Redacted] E E

Twenty [Redacted] Dollars

Salary [Redacted] B C

March

45-30

✓ 1	7	8	.00	0	0	U
✓ 2	5	0	.00	0	0	U
✓ 6	0	0	.00	0	0	U
✓ 1	3	5	.75	7	✓	U
✓ 2	9	7	.75	5	✓	U
✓ 2	0	8	.98	8	✓	U
✓ 1	4	9	.76	6	✓	U
✓ 1	0	0	.00	0	✓	U
✓ 2	0	8	.98	8	✓	U
			.00	0		U
			.00	0		U
1	9	2	9	1	6	*

Wilmington, D.C. March 12 1957 Am 1214

*[Redacted]* E E

*[Redacted]* E \$178 <sup>12</sup>

One hundred and seventy-eight

Wilmington, D.C. *[Redacted]* B

*[Redacted]* C

Authorized Signatory

B

45-30

Washington, D.C. 1957 No. 1199

(D)

[Redacted vertical text]

Pay to the order of

[Redacted horizontal text]

C



Two hundred and ...

of ...

[Redacted horizontal text]

B

AUTHORIZED SIGNATURE

Washington, D.C. March 17, 1957 No. 1210

(D)

[Redacted vertical text]

Pay to the order of

[Redacted horizontal text]

C

Two hundred ...

of ...

[Redacted horizontal text]

C

AUTHORIZED SIGNATURE

45-50

Washington, D.C. March 22, 1957. No. 1220

[REDACTED] E E

[REDACTED] C 3105

[REDACTED] 370

[REDACTED] B C

B

Washington, D.C. March 22, 1957. No. 1219

[REDACTED] E E

[REDACTED] C 3105

[REDACTED] B

[REDACTED] C

B

*Handwritten:* ... 121

**[REDACTED]** **D** **E** **F**

**[REDACTED]** **C**

**[REDACTED]**

**[REDACTED]**

**[REDACTED]**

**[REDACTED]**

**[REDACTED]**

*Handwritten:* ... 1221

**[REDACTED]** **D** **E**

**[REDACTED]** **C**

**[REDACTED]**

**[REDACTED]**

**[REDACTED]**

**[REDACTED]**

**[REDACTED]**

**[REDACTED]**

*[Redacted]*

B

*[Redacted]*

E *[Redacted]*  
C

*[Redacted]*

*[Redacted]*

B

*[Redacted]*

1222

C

*[Redacted]*

C



*Felt*

2	4	9	7	6	✓
2	9	8	3	3	✓
1	3	5	5	7	✓
	9	7	7	5	✓
1	0	0	0	0	✓
			0	0	
			0	0	
9	9	0	3	9	#

Washington, D.C. December 18 1957. No. 1195

(D) [REDACTED] E E

[REDACTED] C 1195 76

One hundred and fifty-nine dollars

Salary [REDACTED] B C

SIGNATURE

Washington, D.C. December 18 1957. No. 1198

(D) [REDACTED] E E

[REDACTED] C 1198 98

Two hundred and eight dollars

Salary [REDACTED] B C

SIGNATURE

Washington, D.C. December 18 1957. No. 1193

(D) [REDACTED] E E

[REDACTED] C 1193 33

Two hundred and three dollars

Salary [REDACTED] B C

SIGNATURE

Washington, D.C. February 28 1957 No. 1194

[REDACTED] E E

[REDACTED] C \$195.<sup>57</sup>

Pay to the order of [REDACTED] \$100.00

[REDACTED] B  
[REDACTED] C

Washington, D.C. February 28 1957 No. 1196

(D) [REDACTED] E E

[REDACTED] C \$97.<sup>75</sup>

Pay to the order of [REDACTED] \$100.00

[REDACTED] B  
[REDACTED] C

Washington, D.C. February 28 1957 No. 1197

(D) [REDACTED] E E E

[REDACTED] C \$100.<sup>00</sup>

Pay to the order of [REDACTED] \$100.00

[REDACTED] B  
[REDACTED] C



45-33 00  
00  
00  
42229  
93311  
83391  
72249  
16030  
67920  
00  
52202

**B**

[REDACTED]

**E**

*Washington, D.C. ...*

[REDACTED]

**B**

[REDACTED]

**E**

*Washington, D.C. ...*

[REDACTED]

**B**  
**C**

453

L275

E E

B.

B

C

Washington, D.C. October 15 - 1857 No 1319

(D)

E E E

D

\$85.91

Eighty-five

91  
the Dollar

Supplies

AUG 57

45

Washington, D.C. November 12 1957 No. 1335

**[REDACTED]**

(D) **[REDACTED]** E **[REDACTED]** E

Pay to the order of

**[REDACTED]**

B

193<sup>11</sup>

Twenty-three

153 Dollars

15432, 15612, 15674, 15788, 27757  
Superior Loan

**[REDACTED]**

B

Washington, D.C. November 12 1957 No. 1349

**[REDACTED]**

(D) **[REDACTED]** E **[REDACTED]** E

**[REDACTED]**

B

193<sup>11</sup>

Twenty-three

153 Dollars

**[REDACTED]**

B





45-39

[Redacted]

[Redacted] E E

[Redacted] B

[Redacted] C

B

[Redacted]

Washington, D.C. 1274  
[Redacted] E E

[Redacted] B

One hundred thirty seven  
[Redacted] B

[Redacted] B C

B

[Redacted]

Washington, D.C. December 21 1957 1356

[Redacted] D E E

[Redacted] B

One hundred and fifty seven  
[Redacted] B

[Redacted] B C

B

Washington, D.C. 1157. Va. 1243  
[Redacted]  
[Redacted]

One hundred & seventy-one  
[Redacted] \$ 171.<sup>18</sup>

[Redacted]  
[Redacted] B C

Washington, D.C. 1225  
[Redacted] E E

[Redacted] B  
[Redacted]

[Redacted] B

Washington, D.C. 1208  
[Redacted] E

[Redacted] D  
[Redacted] R

45-74

Washington, D.C. 1954 Oct 1320

(D) [REDACTED] E [REDACTED]

Pay to the order of [REDACTED] R \$ 110.00

One hundred and ten Dollars

Supplies [REDACTED]

D

Washington, D.C. Account # 1957 No 1202

(D) [REDACTED] E [REDACTED]

Pay to the order of [REDACTED] D \$ 100.00

One hundred and twenty one Dollars

Supplies [REDACTED]

D

Vertical text on the left margin, possibly a name or address.

[REDACTED]

E E

[REDACTED]

D

Handwritten text line, possibly a signature or date.

[REDACTED] B

[REDACTED]

D

Handwritten text at the top of the second page.

1977

Vertical text on the left margin of the second page.

(D)

[REDACTED]

E E

[REDACTED]

B

Handwritten text line, possibly a signature or date.

[REDACTED] B

[REDACTED] C

D

6	3	3	8	0		
2	3	1	0	0		
5	2	2	0	2		
1	3	1	7	6		
	8	5	0	6		
			0	0		
			0	0		
6	0	3	6	7		

N I #

I #

*Rep. work*

1 2 2 2 3  
 1 7 7 3 3 4  
 5 4 0 8 5  
 0 0 0 0 2 7  
 0 0 0 0 0 4  
 1 0 8  
 2 3 7 5  
 T 3 1 7 6  
 I #

45-35

B  
D

Washington, D.C. August 19 1957. No. 1290  
 [REDACTED]  
 [REDACTED]  
 [REDACTED] B  
 [REDACTED] 1955  
 [REDACTED] 1955 Dollars  
 [REDACTED] B  
 AUTHORIZED SIGNATURE

B  
D

Washington, D.C. August 19 1957. No. 1290  
 [REDACTED]  
 [REDACTED]  
 [REDACTED] B  
 [REDACTED] 1955  
 [REDACTED] 1955 Dollars  
 [REDACTED] B  
 AUTHORIZED SIGNATURE

45-36

B

Washington, D.C. May 13 1957. 12:58

[Redacted]

[Redacted]

E [Redacted] E

B

Medical Specialist

[Redacted]

B

C

B

Washington, D.C. May 13 1957. 12:40

[Redacted]

D

[Redacted]

E [Redacted]

Pay

[Redacted]

B

Medical Specialist

Medical Specialist

GENSHIKTER FUND FOR MEDICAL RESEARCH, INC.

[Redacted]

AMOUNT OF \$1,000.00

*B*

Washington, D.C. August 22, 1957. No. 1295

*B* [Redacted] *E* [Redacted] *E*

*B* [Redacted] *B* 1295

[Redacted]

[Redacted]

[Redacted]

*B*

Washington, D.C. August 22, 1957. No. 1296

[Redacted] *E* [Redacted] *E*

*B* [Redacted] *B* 1296

[Redacted]

[Redacted]

[Redacted]



Washington, D.C. ... 1978

B  
[Redacted]

(D)

[Redacted]

E E

[Redacted]

B

Inventory - [Redacted]

[Redacted]

B

June 6-1978  
[Redacted]

[Redacted]

C

45-36

			00	00	U
			00	00	A
1	7	7	6	1	✓
1	7	6	5	1	✓
		6	5	1	✓
2	1	9	8	8	✓
3	2	3	6	6	✓
3	2	0	9	1	✓
3	7	6	9	9	✓
2	3	0	9	9	✓
			00	00	
			00	00	
2	0	7	9	1	#
		2	3	0	
			9	1	
			0	0	
			0	0	

Washington, D.C. ... 1957 ... 1348

(D) [REDACTED] E E

[REDACTED] B

[REDACTED] B C

Washington, D.C. December 13 1957 No. 1338

(D) [Redacted] E [Redacted]

Pay to the order of [Redacted] \$17 <sup>61</sup>/<sub>100</sub>

Seventeen <sup>61</sup>/<sub>100</sub> Dollars

Supplies - oil [Redacted]

[Redacted] B

B

[Redacted] B

[Redacted]

Washington, D.C. 13 1957. No. 1242

[REDACTED]

E [REDACTED] E

[REDACTED]

B

[REDACTED]

London, England

[REDACTED]

ASPHENIX & SIGMA

Washington, D.C. 14 1957. No. 1226

[REDACTED]

E [REDACTED] E

[REDACTED]

B

[REDACTED]

[REDACTED]

B



*[Redacted]*  
*[Redacted]*  
*[Redacted]*

1207  
E  
B  
S. S. [unclear]  
[unclear]

B

*[Redacted]*  
*[Redacted]*

B  
C



Washington, D.C. December 19, 1922. No. 1374

(D) *[Redacted]*  
*[Redacted]*

E  
B  
S. S. [unclear]

Twenty-three  
[unclear]

*[Redacted]*  
*[Redacted]*

B

Washington, D.C. Sept. 10, 1907. No. 138

[Redacted vertical text]

[Redacted horizontal text]

Per  
[Redacted]

[Redacted horizontal text]

B

Washington, D.C. Sept. 10, 1907. No. 1309

[Redacted vertical text]

[Redacted horizontal text]

Per  
[Redacted]

[Redacted horizontal text]

B

[Redacted horizontal text]

#	1
122522211	7
2326488	8
4504023	9
h00bhU0hU000	6
0004U0000	5
U#U	4
U#U	3
U#U	2
U#U	1

U#U	U
0000000	0
0000000	1
0000000	2
0000000	3
0000000	4
0000000	5
0000000	6
0000000	7
0000000	8
0000000	9
U#U	U

B

(10)

Washington, D.C.

1303

One hundred and thirty four  
Travellers

C

134

Left Dallas

AUTHORIZED SIGNATURE



45-37

Washington, D.C. May 7 1957 No. 1237

(D) [Redacted] E [Redacted] E

[Redacted] C \$529<sup>33</sup>

Five hundred and twenty-one <sup>33</sup> Dollars

Travel expenses 1956

[Redacted] C

Washington, D.C. 19 57 No. 1239

(D) [Redacted] E [Redacted] E

[Redacted] C \$235.51

Two hundred and thirty-five and 51/100 Dollars

Travel expense ACS meeting

[Redacted] C SIGNATURE



Washington, D.C.

19... No. 1304

(D) [Redacted] E [Redacted]

Pay to the order of

The [Redacted] [Redacted] [Redacted]

C [Redacted]

100 Dollars

[Redacted] [Redacted] [Redacted]



B

Washington, D.C.

19... No. 1229

[Redacted] E [Redacted] E

Pay to the order of

[Redacted]

C

[Redacted]

[Redacted] 100 Dollars

[Redacted] [Redacted] [Redacted]

45-3

Washington, D.C. Catalina No. 1322

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

~~\_\_\_\_\_~~ E

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

C

\$ 25.38

Two hundred eighty-two

\$ 38.00  
100 Dollars

ETH meeting

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

45

Washington, D.C.

1857. No. 1234

E E

Pay to the order of

Forty-nine

C

859<sup>16</sup>

100 Dollars

Travel

H

B

Washington, D.C.

No. 1321

E E

Pay to the order of

Travel

C

100 Dollars

**B**  
[Redacted]

[Redacted]

**C**

**E**

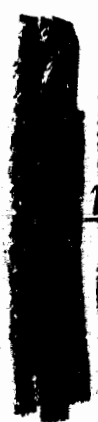
**E**

[Redacted]

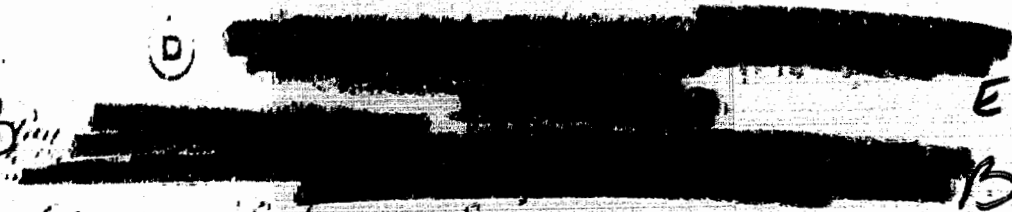
B



0050005	459195
0090005	
0010000	
0090000	
1150000	
1100000	



B



E E

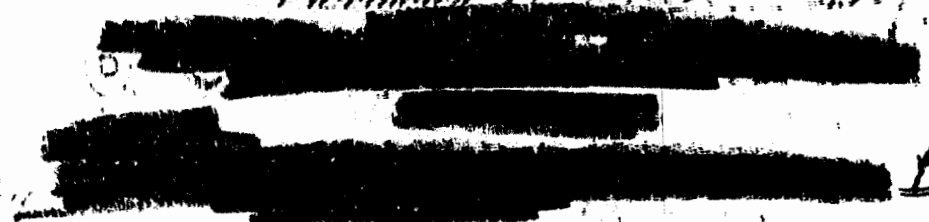
*Chas. Johnson*



C



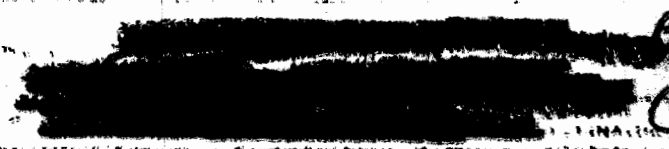
*Washington D.C. 2000*



E E

B

B



C

Washington, D.C. 20540 No. 1284

**[REDACTED]**

B

**[REDACTED]**

E

**[REDACTED]**

E

**[REDACTED]**

B

**[REDACTED]**

Buy  
to the  
extent

CC 1/1/11  
1284

Buy to the extent

**[REDACTED]**

B

**[REDACTED]**

B

Buy to the extent



**[REDACTED]**

B

**[REDACTED]**

E

**[REDACTED]**

E

**[REDACTED]**

B

**[REDACTED]**

E

4513



#1 U	#1
00000100001	
00000500005	
00100	1
00800	8
06205	2
2 252	5
	1

Washington, D.C. March 12, 1957. No. 1211

⑤ [Redacted]

Pay to the order of [Redacted] \$2,000

Two thousand 00/100 Dollars

Final payment on [Redacted]

AUTHORIZED BY [Redacted]



[Redacted]

B

[Redacted]

C

[Redacted]

E

[Redacted]

[Redacted]

B

[Redacted]

O

E

[Redacted]

C

[Redacted]

45-38

B

1333

E

E

B

Five hours  
Personal Rent:

1333

1333

B

B

Washington, D.C.

1381

E

E

B

Washington, D.C.

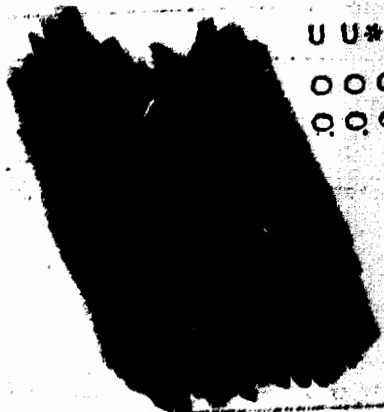
1381

1381

E

C

B



U	U	*U	U	#
0	0	0	0	0
0	0	0	0	0
1	5	0	0	5
1	0	0	0	0
1	5	0	0	5

B



Washington, D.C. December 30, 1957 No. 1375

(D) [Redacted]

E E

[Redacted]

B

8125

Com. J. [Redacted]

Proposed [Redacted]

[Redacted]

Washington, D.C. March 12, 1927. No. 1212

(D)

[REDACTED]

E

[REDACTED]

B

\$1,000

check

100 Dollars

as Hospitalization

[REDACTED]

B

AUTHORIZED SIGNATURE

B

Washington, D.C. August 7, 1927. No. 1237

(D)

[REDACTED]

E

[REDACTED]

B

as Hospitalization

[REDACTED]



B

UUUU

#

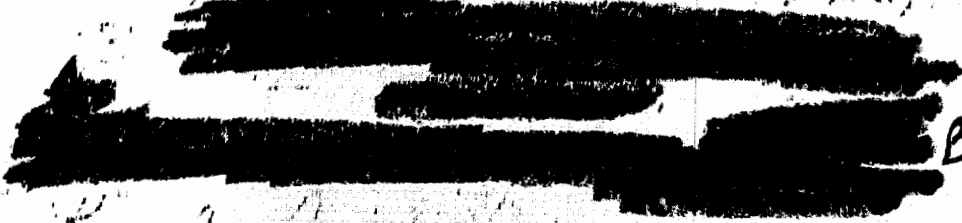
45-38

00000000000000000000	
00000000000000000000	
00000000000000000000	
50000000000000000000	50150
20500000000000000000	
101500002000200020	
1 1 1 5 0 1 5 0	



B

Washington, D.C., February 20, 1957



E

B

*[Faint handwritten text, possibly a signature]*



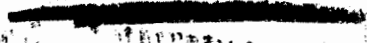
B

Washington, D.C., February 20, 1957



E

E



B



B



C

B

Washington, D.C. FEBRUARY 28 1957 No. 1192

(D)

Pay to the order of

[REDACTED]

B

\$1,500.00

One thousand, five hundred

[REDACTED]

[REDACTED]

[REDACTED]

REGISTERED SIGNATURE

B

Washington, D.C. FEBRUARY 28 1957 No. 1192

[REDACTED]

[REDACTED]

B

[REDACTED]

**B**

Washington, D.C.

1227

[REDACTED]

**E**

[REDACTED] **B**

[REDACTED]

**B**

Washington, D.C.

**E**

[REDACTED] **B**

[REDACTED] **B**

B

Washington, D.C. Sept 24, 1957 No 1305

(D)

[Redacted]

[Redacted] E

On Thursday, Sept 24, 1957 [Redacted] B

[Redacted] B [Redacted] C

B

Washington, D.C. Sept 24, 1957 No 1305

[Redacted] E

[Redacted] B

[Redacted] B [Redacted] C



B

Handwritten text, possibly a name or address, partially obscured by redaction.

1957 1350

Large redacted area with handwritten letters 'E' and 'B' visible on the right side.

Redacted area with handwritten letters 'B' and 'C' visible on the right side.

Washington, D.C. 1957 No. 1332

**D**  
[Redacted]

(C)

[Redacted]

**E**

**Z**

[Redacted]

**B**

St. Louis

Can. Bureau

[Redacted]

Pathology Dept. Research

**B**

DATE			Approved.	Receipts	EXPENSES
21 Mar	55	FUNDS			
31 Mar	55	INVOICE #1		33333. <sup>00</sup>	100,000. <sup>00</sup>
25 May	55	INVOICE #2		33000. <sup>00</sup>	
16 Sep	55	INVOICE #3		33667. <sup>00</sup>	
21 Feb	56	INVOICE #4		33000. <sup>00</sup>	100,000. <sup>00</sup>
22 May	56	#5		33000. <sup>00</sup>	
10 Sep	56	#6		34000. <sup>00</sup>	
25 Jan	57	#7		33334. <sup>00</sup>	100,000. <sup>00</sup>
3 May	57	#8		33533. <sup>33</sup>	
17 Oct	57	#9		33333. <sup>33</sup>	
28 Jan	58	#10		21733. <sup>33</sup>	65200. <sup>00</sup>
22 Apr	58	#11		21733. <sup>33</sup>	
22 Sep	58	#12		21733. <sup>33</sup>	
5 Feb	59	#13		35750. <sup>00</sup>	75260. <sup>00</sup>
11 Jun	59	#14		35750. <sup>00</sup>	
5 Jun	59	AUTHORIZATION #2	2760. <sup>00</sup>		
21 Aug	59	#15		3760. <sup>00</sup>	71500. <sup>00</sup>
4 Jan	60	#16		23833. <sup>00</sup>	
13 Apr	60	#17		23833. <sup>00</sup>	
11 Aug	60	#18		23834. <sup>00</sup>	20000. <sup>00</sup>
7 Apr	61	#19		20000. <sup>00</sup>	
5 Oct	61	#20		20000. <sup>00</sup>	
13 Feb	61	#21		40000. <sup>00</sup>	
A		PROPOSED 5 JUNE 59			
A		SENT TO FINANCE 5 JUNE 59			
A		RECEIVED FROM [redacted]		10 July 59	
A		RECEIVED TO [redacted]		10 Sept 59	
A		INVOICE #15		21 Aug 59	

45-40

173  
003

-45-

6-3510-10-001

11 AUG 1955	Anthony's #3 Sub. 45	23,000.00	33,000.00
19 SEP 1955	Invoice #3	35,000.00	-
3 FEB 1956	Anthony's #4 Sub. 45	10,000.00	10,000.00
24 FEB 1956	Invoice #4	37,000.00	67,000.00
24 MAY 1956	Invoice #5	37,000.00	37,000.00
12 SEP 1956	Invoice #6	37,000.00	-

*big*

45-41

MOULERA  
Sub - Project 45

Description	Date	Obligations	Expenditures	Balance		
Subgrant #1	Mar 31	1000000		4000000		
Invoice #1	Apr 1		3533500	666700		
Est #1	May 15	2500000		3566700		
Invoice #2	Jun 28		3588000	66700		
Invoice #3	1978		16910	-		
Invoice's total	1978	3566700	4950	-		
		3500000	52			

*L. 90*

45-42

February 1958 - Through January 1959

RESEARCH GRANTS:

B	[REDACTED]	\$36,800.00	
	[REDACTED] Patient Hospitalization	1,000.00	\$37,800.00
	[REDACTED]		2,950.00
	[REDACTED]		<u>3,466.66</u> 34,216.66

SALARIES & FEES AND SOCIAL SECURITY:

Salaries and Fees	15,478.90
Social Security	<u>307.23</u> 15,786.13

SUPPLIES AND SERVICES:

Special Chemicals:

B	[REDACTED]	\$ 650.00	
	[REDACTED]	217.80	
	[REDACTED]	1,355.68	
	[REDACTED]	2,037.52	4,261.00
	[REDACTED]	918.30	
	[REDACTED]	27.98	<u>946.28</u> 5,207.28

TOTAL EXPENDITURES \$ 65,216.66

*This report supported by [REDACTED] the  
College of [REDACTED] [REDACTED] [REDACTED]*

B I certify that this is a true statement.

[REDACTED SIGNATURE]

A [REDACTED]

REPORT OF EXPENDITURES

February 1, 1957 - January 31, 1958

Research Grants:

B	[REDACTED]	\$50,150.00	
	[REDACTED] Patient Hospitalization	<u>1,605.00</u>	\$51,755.00
	[REDACTED]		12,381.31
	[REDACTED]		<u>4,991.95</u> \$ 68,728.26
	Salaries, Fees and Social Security		16,917.65

Travel and Meetings:

C	[REDACTED]	\$183.87	
	[REDACTED]	262.38	
	[REDACTED]	249.73	
	[REDACTED]	264.60	
	[REDACTED]	360.17	
	[REDACTED]	<u>139.11</u>	
			1,869.26

Special Chemicals:

B	[REDACTED]	6,280.00	
	[REDACTED]	2,326.21	
	[REDACTED]	270.80	
	[REDACTED]	517.40	
	[REDACTED]	<u>100.00</u>	
			9,894.41

Supplies:

B	[REDACTED]	1,633.83	
	[REDACTED]	211.00	
	[REDACTED]	722.02	
	[REDACTED]	131.76	
	[REDACTED]	<u>85.06</u>	
			<u>2,603.67</u>

Total

\$ 100,013.27

[REDACTED] D

[REDACTED] A

HA-54

*WV*

**Project:** MKU-6RA, Subproject 45

**Date Initiated:** March 1955

**Date Expires:** February 1962

**Funds-current year:** \$40,000.00

**Purpose:** To provide funds for consultative and out-put services in the medical field as well as to conduct research on the synthesis, pharmacodynamic analysis and clinical trial of new chemical agents.

**Status:** Several new memory techniques are being tested in relation to chemical agents which stimulate the stress reaction in human beings.

*WV*



# ACCOUNTING BY INDIVIDUAL FOR ADVANCE

45-45

WETA Sub 45

PERIOD OF ACCOUNTING

FROM 10 February 1961 TO 31 January 1963

VOUCHER NO. (Finance use only)

DISBURSEMENTS

NOTE: Follow Instructions on Reverse

## RECEIPTS

1. CASH ON HAND BEGINNING OF PERIOD	2. RECEIPTS	3. VOUCHER DISBURSEMENTS	4. RETURNED MEMBERSHIP	5. CASH ON HAND END OF PERIOD	TOTAL ACCOUNTED FOR	TOTAL EXPENSES	AMOUNT												
	<table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>AMOUNT</th> </tr> </thead> <tbody> <tr> <td>4/7/61</td> <td>Invoice #19 (FT 1961)</td> <td>70,000.00</td> </tr> <tr> <td>10/5/61</td> <td>Invoice #20 (FT 1962)</td> <td>70,000.00</td> </tr> <tr> <td>2/13/63</td> <td>Invoice #21 (FT 1962)</td> <td>40,000.00</td> </tr> </tbody> </table>	DATE	DESCRIPTION	AMOUNT	4/7/61	Invoice #19 (FT 1961)	70,000.00	10/5/61	Invoice #20 (FT 1962)	70,000.00	2/13/63	Invoice #21 (FT 1962)	40,000.00				\$0,000.00	\$0,000.00	\$0,000.00
DATE	DESCRIPTION	AMOUNT																	
4/7/61	Invoice #19 (FT 1961)	70,000.00																	
10/5/61	Invoice #20 (FT 1962)	70,000.00																	
2/13/63	Invoice #21 (FT 1962)	40,000.00																	
TOTAL TO ACCOUNT FOR					\$0,000.00														

I certify that the expenditures listed herein and on any attachments were incurred for official purposes of a confidential nature, that payment or credit therefor has not been received, and that this accounting is true and correct.

1 CERTIFY FUNDS ARE AVAILABLE  
 OBLIGATION REFERENCE NO. 614 CHANGE ALLOTMENT NO. 2125-1390-3909  
 DATE 1821 SIGNATURE OF AUTHORIZING OFFICER [Signature] DATE 24 Oct 62 SIGNATURE OF PAYEE [Signature]

SEPARATED BY [Signature] REVIEWED BY [Signature]

SPACE BELOW FOR EXCLUSIVE USE OF FINANCE DIVISION

DESCRIPTION - ALL OTHER ACCOUNTS 13-33	STATION CODE 34-39	EXTENSION CODE 40-42	FUND CODE 43	PAY PERIOD CODE 45-48	REPORTING MONTH 47-52	GENERAL LEDGER ACCOUNT NO. 50	ALLGT. ON COST ACCT. NO. 53-57	DATE 59-70	AMOUNT 71-80
DESCRIPTION - ADVANCE ACCOUNTS 13-27	13-33	34-39	40-42	43	45-48	47-52	50	59-70	71-80
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1
TOTALS									1

45-46

[REDACTED] B

**FINANCIAL REPORT**

INV 21 February 1, 1962 to January 31, 1963

<b>FUNDS RECEIVED</b>		<b>\$40,000.00</b>
Grants In Aid	[REDACTED] B	<b>\$49,000.00</b>

[REDACTED] C

I have examined and certified the submitted expenditures.

[REDACTED] A

WAS/Chemical Div

Date: 2/2/63

45-47

[REDACTED]

B

**FINANCIAL REPORT**

INV 20  
INV 19

February 1, 1961 to January 31, 1962

FUNDS RECEIVED

\$40,000.00

Grants In Aid

[REDACTED]

B

\$41,000.00

[REDACTED]

I have examined and certified the accuracy of the above information.

[REDACTED]

TOB 'Chemical Divis'

Date: 2/20/62

45-48

*M*

Date 23 July 1962

Branch RB Category Chemical and Physical Manipulants (V-b)

Project Title Knochnut Materials Item Classification Through Secret

Project Crypto MKULTRA Crypto Classification None

Branch Project No. R-102 Project Engineer [REDACTED]

Contractor [REDACTED] *B*

Contract No. MKULTRA 445 Task No. None

Type of Contract R&D Date Initiated February 1962

Cost \$40,000.00 Completion Date February 1963

Purpose: **This project involves the production and preliminary testing of materials which affect the "awareness" of human beings. The goal is a good "Mickey Finn."**

Status: **This project has been delayed by the loss of [REDACTED]. However, isolation and preliminary testing of a promising material first located by him are being carried out and preliminary feasibility should be established approximately on schedule.**

*M*

*M*  
Automatic  
downgrading and  
declassification

45-49

B

Oct 12 1961 No.

2293

Pay B to the order of

\$26,000.00

Twenty six thousand dollars and  $\frac{00}{100}$  Dollars

RESEARCH GRANT

AUTHORIZED SIGNATURE

STYLE 7

B

April 27 1961 No.

2179

Pay B to the order of

\$25,000.00

Twenty five thousand dollars and  $\frac{00}{100}$  Dollars

N.P.

AUTHORIZED SIGNATURE

STYLE 7

45-50

RECEIPT

Receipt is hereby acknowledged of the following:

Cashier's Check No. OSC 578 in the amount of \$40,000, dated  
February 28, 1962, drawn on [REDACTED] E

E [REDACTED], payable to [REDACTED] B

[REDACTED] C

Date: [REDACTED] 3/7/62

*[Handwritten signature]*

13 February 1962

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSD/Budget Officer

SUBJECT : MKULTRA, Subproject 45, Invoice #21,  
Allotment 2125-1390-3902

1. Invoice No. 21 is attached covering the above subproject. Payment should be made as follows:

*E*  
*B* Cashier's check in the amount of \$40,000.00 drawn on a *[redacted]* bank, payable to *[redacted]* *B*

2. The check should be forwarded to Chief, TSD/Research Branch, through TSD/Budget Officer as soon as possible.

3. This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project the files should not be closed.

*E*  
*E* CHECK # *[redacted]* IN THE AMOUNT OF \$ 40,000.00.  
RECEIVED.

*A* *[redacted]* *7 Mar 62*

*[redacted]* *A*  
Chief  
TSD/Research Branch

Attachment:  
Invoice & Certifications

Distribution:  
Orig & 2 - Addressee  
1 - TSD/FASS  
2 - TSD/RB

I CERTIFY THAT FUNDS ARE AVAILABLE  
OBLIGATION REFERENCE NO. 614  
CHANGE TO ALLOTMENT NO. 2125-1390-3902

\_\_\_\_\_  
AUTHORIZING OFFICER

*A* TSD/RB/*[redacted]* (13 Feb 62)

*[Handwritten signature]*

45-57

**SECRET**

13 February 1962

**INVOICE**

For Services

~~\$40,000.00~~

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

B

**CERTIFICATIONS**

(1) It is hereby certified that this is invoice 21 applying to Sub-project No. 45 of MKULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSD/RB, that this bill is just and correct and that payment thereof has not yet been made.

\_\_\_\_\_  
Chief, TSD/Research Branch

Date: 13 February 1962

(2) It is hereby certified that this invoice applies to Subproject 45 of MKULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum of 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

\_\_\_\_\_  
Research Director

Date: \_\_\_\_\_

**SECRET**



6 February 1962

MEMORANDUM FOR: THE RECORD

SUBJECT : Continuation of MKULTRA, Subproject No. 45

1. The scope of this subproject includes all those activities now engaged in by [REDACTED] under the direction of TSD/RB with the exception of those cutout functions specifically mentioned in connection with other MKULTRA subprojects. In general, the research effort under this subproject will continue along the lines laid down in previous years. These involve the synthesis and pharmacological and clinical evaluation of compounds of those chemical families known to have application in the psychochemical and "K" fields. During the coming year it is planned to concentrate more directly on the more practical aspects of the "knockout" problem. Enough new potent substances have become available lately to make such a change in emphasis worthwhile. In connection with this change it should be noted that certain findings made in [REDACTED] project at [REDACTED] which cannot be further exploited at that facility will be pursued at [REDACTED] in the future. For this reason it may be necessary to supplement the findings of this subproject from time to time during the year due to increases of scope.

B  
C  
B

2. [REDACTED] also serves as a general consultant to the Agency, provides services of a sensitive nature on an ad hoc basis, and serves as a cutout in procurement problems.

C

Downgraded to: CONFIDENTIAL  
by Authority of: 187475  
date: June 1977

E2 IMPDET; CL BY 187475

3. The total cost of this project for a period of one year will not exceed \$40,000.00. Charges should be made against Allotment 2125-1390-3902.

e 4. [redacted] has been requested to submit a summary accounting or a copy of the Fund's annual audit report for the sponsor's inspection. Also, it has been requested that any unexpended funds shall be returned to the Agency.

5. Title to any permanent equipment purchased by funds granted e [redacted] shall be retained by [redacted] B B [redacted] in lieu of higher overhead rates.

6. It was mutually agreed that documentation and accounting for travel expenses which are normally reimbursable by [redacted] B shall conform with the accepted practices of the Fund.

[redacted] A  
Chief  
TED/Research Branch

APPROVED FOR OBLIGATION OF FUNDS:

[redacted] A  
\_\_\_\_\_  
Research Director

Date \_\_\_\_\_

Attachment: Proposal and Budget

Distribution: Original only

Downgraded to: CONFIDENTIAL  
by Authority of: 187475  
date: June 1977  
E2 IMPDET; CL BY 187475

[Handwritten signature]

B

PROPOSAL 1962

It is proposed to continue exploration and pilot work along lines which have been developed in the investigations of the past few years in cooperation with other projects of interest to the Sponsor. The primary field of work involves the effects of stress on human beings. Major items of interest presently involve the following areas:

- (a) Creation of reliable research "tools" for study of stress phenomena in animals and man with the end in view of understanding these phenomena to the extent that practical applications can be realized in interpreting and controlling human behavior.
- (b) The production and study of new chemical and physical agents of significance in connection with the stress reactions.
- (c) The allied investigation of chemical and physical agents related to the "state of awareness" of human beings. The particular interest in this relationship is to obtain and define a separation between general activation or depression of the whole animal and the very specific "perceptual" depression or activation desirable from the psychologists' point of view.

A reasonable amount of progress is being made in the several areas indicated above and it is expected that continued efforts of the sort which have proved efficacious in the past year will yield further significant results.

WARNING NOTICE  
SENSITIVE INTELLIGENCE  
SOURCES AND METHODS INVOLVED

[REDACTED] B

BUDGET 1962

Salaries	\$ 30,500.00
Chemical Supplies	2,000.00
Experimental Animals and Subjects	5,000.00
Clerical Support	<u>2,500.00</u>
TOTAL	\$ 40,000.00

WARNING NOTICE  
SENSITIVE INTELLIGENCE  
SOURCES AND METHODS INVOLVED

SECRET

45-53  
Date: 8 February 1962

MEMORANDUM FOR: THE COMPTROLLER

ATTENTION : Financa Division

SUBJECT : MKULTRA, Subproject <sup>45</sup>  
Allotment # 2125-1390-3902

Under the authority granted in the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda, Subproject <sup>45</sup> has been approved, and \$40,000.00 of the over-all Project MKULTRA funds have been obligated to cover the subproject's expenses and should be charged to cost center 2125-1390-3902.

 A  
Chief  
TSD/Research Branch

APPROVED FOR OBLIGATION  
OF FUNDS:

\_\_\_\_\_  
Research Director

Date: \_\_\_\_\_

Distribution:

Original & 2 - Addressee

1 - TSD/PASS

2 - TSD/RB

SECRET

~~SECRET~~  
(When Filled In)

45-54

No. 614

Cost Account 2125-1390-3902

Object Class \_\_\_\_\_

Date	Remarks and References	Obligations Incurred	Obligations Liquidated	Unliquidated Balance
10 OCT 1961	MKULTRA Sub 45	29,000.00		29,000.
	Inv. # 20		29,000.00	—
12 FEB 1962	MKULTRA Sub 45 - Invoice 21	40,000.00		40,000.

~~SECRET~~  
(When Filled In)

SECRET

45-55-  
Date: 9 October 1961

MEMORANDUM FOR: THE COMPTROLLER

ATTENTION : Finance Division

SUBJECT : MKULTRA, Subproject 45

Under the authority granted in the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda, Subproject 45 has been approved, and 20,000.00 of the over-all Project MKULTRA funds have been obligated to cover the subproject's expenses and should be charged to cost center 2125-1390-3903.

  
Chief  
TSD/Research Branch

APPROVED FOR OBLIGATION  
OF FUNDS:

Research Director

I CERTIFY THAT FUNDS ARE AVAILABLE.  
OBLIGATION REFERENCE NO. 614  
CHARGE TO ALLOTMENT NO. \_\_\_\_\_

ALWAYS SIGN THIS CER

Date: \_\_\_\_\_

Distribution:

- Original & 2 - Addressee
- 1 - TSD/FASS
- 2 - TSD/RB

SECRET

SECRET

45-56


Date: 8 February 1962

MEMORANDUM FOR: THE COMPTROLLER


ATTENTION : Finance Division

SUBJECT : MKULTRA, Subproject 45  
Allotment # 2125-1390-3902

Under the authority granted in the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda, Subproject 45 has been approved, and \$40,000.00 of the over-all Project MKULTRA funds have been obligated to cover the subproject's expenses and should be charged to cost center 2125-1390-3902.

A   
Chief  
TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS:

A   
Research Director

Date: 1 FEB 1962

I CERTIFY THAT FUNDS ARE AVAILABLE  
OBLIGATION REFERENCE NO. \_\_\_\_\_  
SOURCE TO ALLOTMENT NO. \_\_\_\_\_  
AUTHORIZING OFFICER

Distribution:  
Original & 2 - Addressee  
X - TSD/FASS  
2 - TSD/RB

SECRET



RECEIPT

Receipt is hereby acknowledged of the following:

Treasurer's Check No. 186234 in the amount of \$20,000, dated 11 October 1961, drawn on [REDACTED]

E  
B

[REDACTED]

payable to

E  
B

[REDACTED]

C

Date;

Oct 11, 1961

Downgraded to: CONFIDENTIAL  
by authority of: 187475  
date: June 1977

E2 IMPDET; CL BY 187475

45-58  
A  
31 March 1961

MEMORANDUM FOR: THE RECORD

SUBJECT : Continuation of MKULTRA, Subproject No. 45

1. The scope of this subproject includes all those activities now engaged in by [REDACTED] under the direction of TSD/RB with the exception of those cutout functions specifically mentioned in connection with other MKULTRA subprojects. In general, the research effort under this subproject will continue along the lines laid down in previous years. These involve the synthesis and pharmacological and clinical evaluation of compounds of those chemical families known to have application in the psychochemical and "K" fields. During the past year important progress has been made in the area related to stressor compounds and the relationship of these materials to the physiological pathways through which both stress and the reaction to it are mediated in human beings. Also, several new and important animal screening techniques adapted to the study of materials which depress the general awareness of animals without producing any accompanying physical depression have been made available for work on "knockout" materials. In addition, some progress has been made in relating certain organic chemical structures to observed effects on animals. A considerable part of next year's effort will be aimed at extending our ability to understand the structure-activity relationships among these sleep-producing materials. B

Downgraded to: CONFIDENTIAL  
by authority of: 187475  
date: June 1977

E2 IMPDET; CL BY 187475

Downgraded to: CONFIDENTIAL  
by authority of: 187475  
Date: June 1977

E2 IMPDET; CL BY 187475

2. [redacted] also serves as a general consultant to the Agency, provides services of a sensitive nature on an ad hoc basis, and serves as a cutout in procurement problems.

3. The total cost of this project for a period of one year will not exceed \$40,000.00. (However, at the present time the project will only be extended for a period of <sup>SIX</sup> ~~three~~ months. The cost of this project for this period will not exceed \$20,000.00.) Charges should be made against Allotment 1125-1390-3902. (It is anticipated that the remainder of the funds for the project year will be made available from FY-62 money when available.)

C 4. [redacted] has been requested to submit a summary B accounting or a copy of [redacted] annual audit report for the sponsor's inspection. Also, it has been requested that any unexpended funds shall be returned to the Agency.

5. Title to any permanent equipment purchased by funds granted

C [redacted] shall be retained by [redacted] B. B. [redacted] in lieu of higher overhead rates.

6. It was mutually agreed that documentation and accounting for travel expenses which are normally reimbursable by [redacted] B shall conform with the accepted practices of [redacted] B

APPROVED FOR OBLIGATION OF FUNDS:

A [redacted]  
Research Director

Date \_\_\_\_\_

[redacted] A  
Chief  
TSD/Research Branch

APPROVED FOR ADDITIONAL OBLIGATION OF FUNDS: (\$20,000.00 against Allotment 2125-1390-3902

A [redacted]  
Research Director

Date \_\_\_\_\_

Downgraded to: CONFIDENTIAL  
by authority of: 187475  
Date: June 1977  
E2 IMPDET; CL BY 187475

PROPOSAL 1961

It is proposed to continue exploration and pilot work along lines which have been developed in the investigations of the past few years in cooperation with other projects of interest to the Sponsor. The primary field of work involves the effects of stress on human beings. Major items of interest presently involve the following areas:

- a) Creation of reliable research "tools" for study of stress phenomena in animals and man with the end in view of understanding these phenomena to the extent that practical applications can be realized in interpreting and controlling human behavior.
- b) The production and study of new chemical and physical agents of significance in connection with the stress reactions.
- c) The allied investigation of chemical and physical agents related to the "state of awareness" of human beings. The particular interest in this relationship is to obtain and define a separation between general activation or depression of the whole animal and the very specific "perceptual" depression or activation desirable from the psychologists' point of view.

A reasonable amount of progress is being made in the several areas indicated above and it is expected that continued efforts of the sort which have proved efficacious in the past year will yield further significant results.

As indicated in the attached budget, the total research effort will amount to \$71,500.00. We are requesting that the present Sponsor fund only \$40,000.00 of this effort with the remainder to be provided from private sources.

• c [REDACTED]

**WARNING NOTICE**  
**SENSITIVE INTELLIGENCE**  
**SOURCES AND METHODS INVOLVED**

RESEARCH PROPOSAL 1961

BUDGET

1. PHARMACOLOGY AND TOXICOLOGY

Pharmacologist and technician	\$12,000.00	
C [REDACTED]	\$10,000.00	
Animal caretaker, animals & animal maintenance	<u>\$12,000.00</u>	\$34,000.00

2. CLINICAL SCREENING

Clinical assistance	\$12,000.00	
Clerical help and supplies	<u>\$5,000.00</u>	\$17,000.00

3. CHEMICAL SYNTHESIS

S [REDACTED] Consultant	\$1,500.00	
C [REDACTED]	\$5,000.00	
C [REDACTED]	<u>\$10,000.00</u>	\$16,500.00
Chemical Supplies	<u>\$4,000.00</u>	<u>\$4,000.00</u>

TOTAL

\$71,500.00

**WARNING NOTICE**  
SENSITIVE INTELLIGENCE  
SOURCES AND METHODS INVOLVED

**CONFIDENTIAL FUNDS POSTING VOUCHER**

45-60

VOUCHER NO. 7-12				DATE 2-6							VOUCHER NO. 7-12			
DESCRIPTION-ALL OTHER ACCOUNTS 13-33		34-39 STATION CODE		40-42 EXPEND CODE	43 FUND	45-46 PAY PER. LIO. CODE	47-52 OBLIG. REF. NO. ADVANCE ACCT. NO. EMP. NO.	53 CA YR	54-57 GENERAL LEDGER ACCT. NO.	58-67 ALLOT. OR COST ACCT. NO.	62-67 CK. NO. X REF. MO.	68-70 DUE DATE OBJECT CLASS	71-80 AMOUNT DEBIT CREDIT	
DESCRIPTION-ADVANCE ACCOUNTS 13-27		28-33 T/A NO. P.O. NO.	PROP. NO. PROJECT NO.											
Subj 45 July 20				58-20			614		611.0	25-1390-3902	7-52		20,000.00	
Mx 11 July 23							108-1100				437			20,000.00
EXPLANATION OF ENTRY														
See attached														
<div style="border: 1px solid black; padding: 5px; display: inline-block;">             RECEIVED              AUG 1 1962              186234           </div> <b>\$ 9897</b> <i>Log</i>														
DATE 10/10/61	PREPARED BY 	DATE <i>X</i>	REVIEWED BY	CERTIFIED FOR PAYMENT OR CREDIT							SIGNATURE OF CERTIFYING OFFICER			

45-61

5 October 1961

**MEMORANDUM FOR: CHIEF, FINANCE DIVISION**

**VIA : TSD/Budget Officer**

**SUBJECT : MKULTRA, Subproject 45, Invoice No. 20  
Allotment 2125-1390-3902**

**1. Invoice No. 20 covering the above subproject is attached. Payment should be made as follows:**

**Cashier's check in the amount of \$20,000.00 drawn on a local bank.**

**The check should be made payable to the [REDACTED]**

**2. The check should be forwarded to Chief, TSD/Research Branch, through TSD/Budget Officer, as soon as possible.**

**3. This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project the files should not be closed.**

**B**  
GREEN 71034  
RECEIVED

**[REDACTED]**  
**Chief**  
**TSD/Research Branch**  
**A**

**Attachment:  
Invoice & Certifications**

**Distribution:  
Orig & 2 - Addressee  
1 - TSD/FASS  
2 - TSD/RB**

I CERTIFY THAT FUNDS ARE AVAILABLE  
OBLIGATION REFERENCE NO. 614  
CHECK NO. ALLOTMENT NO. 2125-1390-3902  
ACTING BRANCH OFFICER

**TSD/RB/ [REDACTED] (5 October 1961)**

SECRET

INVOICE

For Services

5 October 1961

20,000.00

*Forwarded  
9 Oct 61*

CERTIFICATIONS

(1) It is hereby certified that this is Invoice 20 applying to Sub-project No. 45 of MKULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSD/RB, that this bill is just and correct and that payment thereof has not yet been made.

\_\_\_\_\_  
Chief, TSD/Research Branch

Date: \_\_\_\_\_

(2) It is hereby certified that this invoice applies to Subproject 45 of MKULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum of 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

\_\_\_\_\_  
Research Director

Date: \_\_\_\_\_



**S E C R E T**

Date: 3 October 1961

**MEMORANDUM FOR: THE COMPTROLLER**  
**ATTENTION : Finance Division**  
**SUBJECT : MKULTRA, Subproject 45**

Under the authority granted in the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda, Subproject 45 has been approved, and 30,000.00 of the over-all Project MKULTRA funds have been obligated to cover the subproject's expenses and should be charged to cost center 2123-1370-3702.

~~XXXXXXXXXXXXXXXXXXXX~~  
~~XXXXXXXXXXXXXXXXXXXX~~  
A  
TSD/Research Branch

**APPROVED FOR OBLIGATION OF FUNDS:**

\_\_\_\_\_  
Research Director

Date: \_\_\_\_\_

- Distribution:**  
Original & 2 - Addressee  
1 - TSD/FASS  
2 - TSD/RB

**S E C R E T**

45-63

745

RECEIPT

Receipt is hereby acknowledged of the following:

Check <sup>E</sup> [redacted] in the amount of \$20,000, dated  
14 April 1961, drawn on the [redacted] E  
[redacted], payable to the [redacted] B  
[redacted]

[redacted signature] c  
Date 4/17/61

45-64

**SECRET**

(When Filled In)

No.

1821

Cost Account

1125-1890-3902

Object Class

Date	Remarks and References	Obligations Incurred	Obligations Liquidated	Unliquidated Balance
6 APR 1961	mkulta continuation sub 45	20,000.00		20,000.00
"	Jan 19		20,000.00	-

**SECRET**  
(When Filled In)

45-65

SECRET

DATE: 31 March 1961

MEMORANDUM FOR : THE COMPTROLLER  
ATTENTION : Finance Division  
SUBJECT : MKULTRA, Subproject 45

Under the authority granted in the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda, Subproject 45 has been approved, and \$20,000.00 of the over-all Project MKULTRA funds have been obligated to cover the subproject's expenses and should be charged to cost center 1125-1390-3902.

~~XXXXXXXXXX~~ A  
Chief  
TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS:

~~XXXXXXXXXX~~ A  
Research Director

I CERTIFY THAT FUNDS ARE AVAILABLE.  
ORIGINATION REFERENCE NO. 1821  
CHARGE TO ALLOTMENT NO. \_\_\_\_\_

6 APR 1961

\_\_\_\_\_  
AUTHORIZING OFFICER

Date:

Distribution:  
Orig. & 2 - Addressee

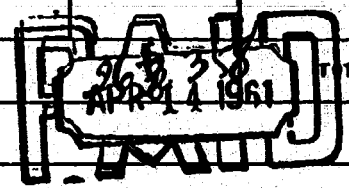
SECRET

(When Filled In)

75-66

### CONFIDENTIAL FUNDS POSTING VOUCHER

VOUCHER NO. 7-12				DATE 2-6				VOUCHER NO. 7-12						
DESCRIPTION- ALL OTHER ACCOUNTS 13-33		34-39 STATION CODE		40-42 EXPEND CODE	43 FUND S	45-46 PAY PER. LIO. CODE	47-52 OBLIG. REF. NO. ADVANCE ACCT. NO. EMP. NO.	53 CA YR	54-57 GENERAL LEDGER ACCT. NO.	58-67 ALLOT. OR COST ACCT. NO.		68-70 DUE DATE	71-80 AMOUNT	
DESCRIPTION- ADVANCE ACCOUNTS 13-27	28-33 T/A NO. P.O. NO.	34-39 PROP. NO. PROJECT NO.	62-67 CH. NO. X REF. NO.							OBJECT CLASS	DEBIT	CREDIT		
SUBPROJ. 45 INV	19			8811			1821		601.0	25-1390-3902	752	20,000.00		
MKULTRA							108		-1102		267			20,000.00
										TOTALS		20,000.00	20,000.00	
EXPLANATION OF ENTRY.													see attached	



DATE 4/12/61	PREPARED BY <i>[Redacted]</i>	DATE A	REVIEWED BY	CERTIFIED FOR PAYMENT OR CREDIT	
				DATE	SIGNATURE OF CERTIFYING OFFICER

SECRET

45-67  
DATE: 31 March 1961

MEMORANDUM FOR : THE CONTROLLER  
ATTENTION : Finance Division  
SUBJECT : MKULTRA, Subproject 45

Under the authority granted in the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda, Subproject 45 has been approved, and \$2,000.00 of the over-all Project MKULTRA funds have been obligated to cover the subproject's expenses and should be charged to cost center 1125-1390-3902.

~~XXXXXXXXXX~~ *J*  
Chief  
TSD/Research Branch

APPROVED FOR OBLIGATION  
OF FUNDS:

~~XXXXXXXXXX~~ *J*  
3 APR 1961  
\_\_\_\_\_  
Research Director

Date:

Distribution:  
Orig. & 2 - Addressee

4347  
SECRET

SECRET

7 April 1961

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSD/Budget Officer

SUBJECT : MULLRA, Subproject 45, Invoice No. 19  
Allotment 1125-1390-3902

1. Invoice No. 19 covering the above subproject is attached. Payment should be made as follows:

Cashier's check in the amount of \$20,000.00 drawn on a local bank.

The check should be made payable to the ~~████████████████████~~ **B**

2. The check should be forwarded to Chief, TSD/Research Branch, through TSD/Budget Officer, no later than Thursday, 13 April 1961.

3. This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project the files should not be closed.

~~████████████████████~~ **A**  
Chief  
TSD/Research Branch

Attachment:  
Invoice & Certifications

Distribution:  
Orig & 2 - Addressee  
1 - TSD/FASB  
2 - TSD/RB

TSD/RB/██████████ (7 April 1961)

CHECK # 26558  
RECEIVED IN THE AMOUNT OF \$20,000.  
~~████████████████████~~

SECRET

OFFICE

For Services

\$20,000.00

**B**

(1) It is hereby certified that this is Invoice 19, applying to sub-project No. 15 of MCMCRA, that performance is satisfactory, that services are being accomplished in accordance with verbal agreements, that a detailed report of the payments and receipts is on file in the file, that this bill is just and correct and that payments therefor has not yet been made.

James W. [unclear]

Date: 7 April 1961

(2) It is hereby certified that this invoice applies to Subproject of MCMCRA which was duly approved, and that the project is being carried out in accordance with the memorandum of 13 April 1959 from the DIT to the DD/A, and the extension of this authority in subsequent memoranda.

[unclear]

Date: \_\_\_\_\_

SECRET



SECRET

DATE: 31 March 1961

MEMORANDUM FOR : THE COMPTROLLER  
ATTENTION : Finance Division  
SUBJECT : MKULTRA, Subproject 45

Under the authority granted in the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda, Subproject 45 has been approved, and \$20,000.00 of the over-all Project MKULTRA funds have been obligated to cover the subproject's expenses and should be charged to cost center 1125-1390-3902.

~~\_\_\_\_\_~~  
Chief  
TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS:

\_\_\_\_\_  
Research Director

Date:

Distribution:  
Orig. & 2 - Addressee

SECRET

**B**  
[REDACTED]

FINANCIAL REPORT JANUARY 31, 1960 - FEBRUARY 1, 1961

SALARIES		\$16,546.95
SUPPLIES & MATERIALS		\$7,312.76
GRANTS IN AID		
	<b>B:</b> [REDACTED]	\$33,600.00
	[REDACTED]	\$12,433.87
	[REDACTED]	<u>7,733.33</u>
		\$47,767.20 ✓
	<b>TOTAL</b>	<b>\$71,726.91</b>

I certify to the best of my knowledge that this statement is correct.

[REDACTED]

Date 10/20/61

4 Jan 1960	23833	Dec 16
13 Apr "	23833	" 17
11 Aug 1960	23834	" 18
	<u>71500</u>	

I have examined and approved the submitted expenditures.

[REDACTED]

**A**

Chief  
TSS/Chemical Division

Date: 10/20/61

43-71

D

R

RECEIPT

Receipt is hereby acknowledged of the following:

E - [redacted] No. G43215 in the amount of \$23,834.00 E

drawn on [redacted], payable

to the [redacted] - B

[redacted] - C

Date 8/26/60

[SECRET]

45-72

11 August 1960

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSD/Budget Officer

SUBJECT : MEXULTRA, Subproject 43, Invoice No. 18  
Allotment 0525-1009-4902

1. Invoice No. 18 covering the above subproject is attached. Payment should be made as follows:

Cashier's check in the amount of \$23,834.00 drawn on a ~~bank~~ bank.

The check should be made payable to the ~~bank~~ *B*

2. The check should be forwarded to Chief, TSD/Research Branch, through TSD/Budget Officer, no later than Thursday, 25 August 1960.

3. This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project the files should not be closed.

~~Signature~~ *A*  
Chief  
TSD/Research Branch

Attachment:  
Invoice & Certifications

Distribution:  
Orig & 2 - Addressee  
1 - TSD/FASB

I CERTIFY THAT FUNDS ARE AVAILABLE *16 AUG 1960*  
OBLIGATION REFERENCE NO. 1296  
CHARGE TO ALLOTMENT NO. 0525-1009-4902

AUTHORIZING OFFICER

~~Signature~~ *E*

25 AUG 1960 CHECK# \_\_\_\_\_ IN THE AMOUNT OF \$23,834.00 RECEIVED. *23,834.00*

~~Signature~~ *C*

[SECRET]

8  
45-72  
**SECRET**

**INVOICE**

**For Services**

**\$23,834.00**

**CERTIFICATIONS**

**(1) It is hereby certified that this is Invoice No. 18 applying to Subproject 45 of MKULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSD/EB, that this bill is just and correct and that payment thereof has not yet been made.**

**C/TSD/Research Branch**

**Date:** \_\_\_\_\_

**(2) It is hereby certified that this invoice applies to Subproject 45 of MKULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.**

**Research Director**

**Date:** \_\_\_\_\_

**SECRET**

**CONFIDENTIAL FUNDS POSTING VOUCHER**

45-73

VOUCHER NO. 7-12			DATE 2-6					VOUCHER NO. 7-12					
DESCRIPTION-ALL OTHER ACCOUNTS 13-33		34-39 STATION CODE	40-42 EXPEND CODE	43 FUNDS	45-46 PAY PER. LIQ. CODE	47-52 OBLIG. REF. NO. ADVANCE ACCT. NO. EMP. NO.	53 CA YR	54-57 GENERAL LEDGER ACCT. NO.	58-67 ALLOT. OR COST ACCT. NO.		68-70 DUE DATE	71-80 AMOUNT	
DESCRIPTION-ADVANCE ACCOUNTS 13-27	28-33 T/A NO.	PROP. NO.	PROJECT NO.	FY					62-67 CK. NO. X REF. NO.	OBJECT CLASS	DEBIT	CREDIT	
	P.O. NO.												DIY
4412000	10018					101298		1010	75-1009	1102130	228400		
4412000												138400	
EXPLANATION OF ENTRY										TOTALS	1352400	138400	
Guantanamo													
DATE	PREPARED BY	DATE	REVIEWED BY	CERTIFIED FOR PAYMENT OR CREDIT									
16 Aug 60	<i>[Signature]</i>			DATE	SIGNATURE OF CERTIFYING OFFICER								

45-74

RECEIPT

Acknowledged herewith receipt of the following check:

Official Check No. <sup>E</sup> [REDACTED] dated April 21, 1960, in the amount

of <sup>E</sup> [REDACTED] drawn on [REDACTED]

payable to [REDACTED] B

[REDACTED]

Date: \_\_\_\_\_

SECRET

45-75

13 April 1960

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSD/Budget Officer

SUBJECT : MKULTRA, Subproject 45, Invoice No. 17  
Allotment 0525-1009-4902

1. Invoice No. 17 covering the above subproject is attached. Other invoices will follow. Payment should be made as follows:

Cashier's check in the amount of \$23,833.00 drawn on a [redacted] bank. E

The check should be made payable to the [redacted] B

2. The check should be forwarded to Chief, TSD/Chemical Branch, through TSD/Budget Officer, no later than 27 April 1960.

[redacted] A  
Chief  
TSD/Chemical Branch

Attachment:  
Invoice & Certifications

Distribution:  
Orig & 2 - Addressee

- 1 - TSD/FASS
- 2 - TSD/CB

TSD/EB/[redacted] A

I CERTIFY THAT FUNDS ARE AVAILABLE  
OBLIGATION REFERENCE No. \_\_\_\_\_  
CHARGE TO ALLOTMENT No. 1298  
\_\_\_\_\_  
ADMINISTRATING OFFICER

15 APR 1960

CHECK [redacted] B  
RECEIVED. IN THE AMOUNT OF \$23,833.00

[redacted] A

SECRET



SECRET

45-75

INVOICE

For Services

\$23,833.00



B

CERTIFICATIONS

(1) It is hereby certified that this is Invoice No. 17 applying to Subproject 45 of MKULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSD/CB, that this bill is just and correct and that payment thereof has not yet been made.

C/TSD/Chemical Branch

Date: \_\_\_\_\_

(2) It is hereby certified that this invoice applies to Subproject 45 of MKULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Date: \_\_\_\_\_

SECRET

45-76






B

*Fund*

RECEIPT

Acknowledged herewith receipt of the following check:

 Check No. G38925, dated 13 January 1960, in the amount of \$23,833.00, drawn on The , payable to 



DATE 1/20/60

45-77

SECRET

4 January 1960

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

SUBJECT : MKULTRA, Subproject 45, Invoice No. 16  
Allotment 0525-1009-4902

1. Invoice No. 16 covering the above subproject is attached. Other invoices will follow. Payment should be made as follows:

Cashier's check in the amount of \$23,833.00 drawn on a ~~XXXXXXXXXXXX~~

The check should be made payable to the ~~XXXXXXXXXXXX~~

2. The check should be forwarded to Chief, TSS/Chemical Division, through TSS/Budget Officer, no later than 18 January 1960.

~~XXXXXXXXXXXX~~  
Chief  
TSS/Chemical Division

6 JAN 1960

Attachment:  
Invoice & Certifications

I CERTIFY THAT FUNDS ARE AVAILABLE;  
OBLIGATION REFERENCE No. ~~XXXXXXXXXXXX~~  
CHARGE TO ALLOTMENT No. ~~XXXXXXXXXXXX~~

Distribution:  
Orig & 2 - Addressee

AUTHORIZING OFFICER

1 - TSS/FASB  
2 - TSS/CD

E

CHECK IN THE AMOUNT OF \$23,833.00 RECEIVED.

18 JAN 1960

SECRET

**SECRET**

45-77

**INVOICE**

**For services**

**\$23,833.00**



**CERTIFICATIONS**

(1) It is hereby certified that this is Invoice No. 16 applying to Subproject 45 of MKULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

**IC/TSS/Chemical Division**

**Date:** \_\_\_\_\_

45-  
(2) It is hereby certified that this invoice applies to Subproject 29 of MKULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

**Research Director**

**Date:** \_\_\_\_\_

**SECRET**

Downgraded to: ~~CONFIDENTIAL~~  
by authority of: 187475  
date: June 1977

~~TOP SECRET~~  
~~TOP SECRET~~

45-78

E2 IMPDET; CL BY 187475

29 December 1959

MEMORANDUM FOR: THE RECORD

SUBJECT : Continuation of MKULTRA, Subproject No. 45

1. The scope of this subproject includes all those activities now engaged in by ~~\_\_\_\_\_~~<sup>B</sup> under the direction of ~~TSS/CD~~<sup>TSD/R3</sup> with the exception of those cutout functions specifically mentioned in connection with other MKULTRA subprojects. In general, the research effort under this subproject will continue along the lines laid down in previous years. These involve the synthesis and pharmacological and clinical evaluation of compounds of those chemical families known to have application in the psychochemical and "K" fields. During the past year important progress has been made in the area related to stressor compounds and the relationship of these materials to the physiological pathways through which both stress and the reaction to it are mediated in human beings. As is indicated in the attached proposal, the work of the past year has progressed to the point where more definitive experiments on the stress reaction can be carried out. Primarily this was brought about by the characterization of several new materials which produce stress reaction in humans and the application of some new clinical methods of measuring the extent of the disturbance produced. During the next year proportionally more effort will be expended on the problem of the development of new ~~\_\_\_\_\_~~

Downgraded to: ~~CONFIDENTIAL~~  
by authority of: 187475  
date: June 1977  
E2 IMPDET; CL BY 187475

E2 IMPDET; CL BY 187475

"knock-out" types of agents since progress has been slower than is desirable in this direction and because a new approach to the problem has been worked out. //

2. <sup>C</sup> [redacted] also serves as a general consultant to the Agency, provides services of a sensitive nature on an ad hoc basis, and serves as a cut-out in procurement problems.

3. The total cost of this project for a period of one year will not exceed \$71,500.00. <sup>40,500.00</sup> Charges should be made against Allotment 0525-1009-4902.

4. <sup>C</sup> [redacted] has been requested to submit a summary accounting or a copy of the Fund's annual audit report for the sponsor's inspection. Also, it has been requested that any unexpended funds shall be returned to the Agency.

5. Title to any permanent equipment purchased by funds granted <sup>C</sup> [redacted] shall be retained by <sup>B</sup> [redacted], in lieu of higher overhead rates.

6. It was mutually agreed that documentation and accounting for travel expenses which are normally reimbursable by <sup>B</sup> [redacted] shall conform with the accepted practices of the Fund.

Downgraded to: **CONFIDENTIAL**  
by authority of: 187475  
date: June 1977

~~CONFIDENTIAL~~

45-78

-3-

E2 IMPDET; CL BY 187475

7. <sup>C</sup> ~~\_\_\_\_\_~~ agreed to comply with the requirements of the Memorandum of Agreement.

<sup>A</sup>  
~~\_\_\_\_\_~~  
Chief  
TSS/Chemical Division

APPROVED FOR OBLIGATION  
OF FUNDS:

<sup>A</sup>  
~~\_\_\_\_\_~~  
Research Director

Date: 12/30/59

Attachment:  
Proposal

Distribution:  
Original only

Downgraded to: **CONFIDENTIAL**  
by authority of: 187475  
date: June 1977  
E2 IMPDET; CL BY 187475

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

RESEARCH PROPOSAL

1960

The research to be undertaken during the twelve month period for which financial support is requested will be devoted to the continued analysis of the neural and endocrine mechanism of stress and the chemical agents that influence it. The screening procedures are based largely upon a further analysis of phases of stress and the influences of this physiologic behavior complex upon both body and skin temperatures as detailed in the accompanying report.

The chemical syntheses of new compounds will be continued B at the [redacted] under the supervision of [redacted] C and at the [redacted] under the supervision B of [redacted] C. These chemical agents will be screened for their capacity to provoke stress or to suppress the stress reaction in its acute or chronic phases. Animal testing will include pharmacologic screening and proper toxicity studies of these compounds as heretofore.

Chemical agents that have been found active and within a suitable toxicity range will be subjected to clinical screening on appropriate patients, the initial screening being carried out on advanced cancer patients. The amount of money devoted to chemical syntheses, however, has been further reduced. Chemical compounds available from biologic sources as well as those synthesized in the project will be screened, particularly those that are active in either raising or lowering body temperature.

As heretofore any agents which prove to be of interest in cancer will be subjected to further evaluation both on transplanted

SENSITIVE INTELLIGENCE WARNING NOTICE



Page 2

animal tumors and on cancer patients. This cancer phase of the project will be considered a by-product of the major objective, which will be directed to the problem of stress.

**WARNING NOTICE**

**SENSITIVE INTELLIGENCE -  
SOURCES AND METHODS INVOLVED**

RESEARCH PROPOSAL

1960

1- PHARMACOLOGY AND TOXICOLOGY

Pharmacologist and technician	\$12,000.00	
<del>_____</del> toxicology	10,000.00	
Animal caretaker, animals and animal maintenance	<u>12,000.00</u>	\$34,000.00

2- CLINICAL SCREENING

Clinical assistants	\$12,000.00	
Clerical help and supplies	<u>5,000.00</u>	\$17,000.00

3- CHEMICAL SYNTHESIS

<del>_____</del> Consultant	\$1,500.00	
<del>_____</del>	5,000.00	
<del>_____</del>	<u>10,000.00</u>	\$16,500.00
Chemical supplies	<u>4,000.00</u>	<u>\$20,500.00</u>
TOTAL		\$71,500.00

WARNING NOTICE

SENSITIVE INTELLIGENCE  
SOURCES AND METHODS INVOLVED

**SECRET**

45-99

No. 1298

Cost Account 0525-109-4902

Object Class \_\_\_\_\_

Date	Remarks and References	Obligations Incurred	Obligations Liquidated	Unliquidated Balance
31 DEC 1955	Initial - Sub 45 with #9	7,500.00		7,500.00
6 JAN 1960	Invoice #1		23,833.00	47,667.00
15 APR 1960	" 17		23,833.00	23,834.00
16 AUG 1960	" 18		23,834.00	→

**SECRET**

45-80

**SECRET**

29 December 1959

**MEMORANDUM FOR: COMPTROLLER**  
**ATTENTION : Finance Division**  
**SUBJECT : MKULTRA, Subproject 45, Additional Authorization No. 9**

Under the authority granted in the memorandum dated 13 April 1953, from the DCI to the DD/A and the extension of this authority in subsequent memoranda, Subproject 45 was previously approved. Under the same authority an additional sum of \$71,500.00 has been authorized to cover the subproject's expenses, to be charged to Allotment ~~XXXXXXXXXX~~.

~~XXXXXXXXXX~~ **A**  
**Chief**  
**TSS/Chemical Division**

**APPROVED FOR OBLIGATION OF FUNDS:**

Original signed by ~~XXXXXXXXXX~~ **A**

**Research Director**

**Date: 30 DEC 1959**

**Distribution:**  
**Orig & 2 - Addressee**

- 1 - TSS/OC
- 1 - TSS/FASB
- 2 - TSS/CD **A**

TSS/CD: ~~XXXXXXXXXX~~ (29Dec59)

I CERTIFY THAT FUNDS ARE AVAILABLE;  
 OBLIGATION REFERENCE No. ~~XXXXXXXXXX~~  
 CHARGE TO ALLOTMENT No. ~~XXXXXXXXXX~~  
 \_\_\_\_\_  
 AUTHORIZING OFFICER

**SECRET**

SECRET

45-81

21 August 1959

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

SUBJECT : MKULTRA, Subproject 45, Invoice No. 15  
Allotment 9-2502-75-902

1. Invoice No. 15 covering the above subproject is attached. Payment should be made as follows:

Cashier's check in the amount of \$3,760.00,  
drawn on a ██████████ bank.

The check should be made payable to the ██████████ B

2. Please forward the check to Chief, TSS/Chemical Division, through TSS Budget Officer, no later than 3 September 1959.

3. This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project the files should not be closed.

██████████ A  
Chief  
TSS/Chemical Division

Attachment:  
Invoice & Certifications

Distribution:  
Orig & 2 - Addressee

1 - TSS/FASB  
2 - TSS/CD

TSS/CD/██████████ A

SECRET

45-81

SECRET

INVOICE

For services

\$3,760.00

~~REDACTED~~

CERTIFICATIONS

(1) It is hereby certified that this is Invoice No. [REDACTED] applying to Subproject 45 of MKULTRA, that performance [REDACTED] satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

\_\_\_\_\_  
Chief, TSS/Chemical Division

Date: \_\_\_\_\_

(2) It is hereby certified that this invoice applies to Subproject 45 of MKULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

\_\_\_\_\_  
Research Director

Date: \_\_\_\_\_

SECRET

MK ultra - 45-82  
45

3 July 1959

I hereby acknowledge receipt of cashier's check in the amount of \$3,760 representing a research grant from the

[REDACTED] B

[REDACTED] C

10 July 1959  
Date

RECEIPT

Acknowledged herewith receipt of the following check:

Treasurer's Check No. [REDACTED] C, dated 3 September 1959, in the amount of \$3,760.00, drawn on [REDACTED] B, payable to [REDACTED] B

[REDACTED] C

DATE 10 Sep 1959

45-83

MEMORANDUM RECEIPT

22 JUN 1959  
DATE

TO:

FROM:

SUBJECT:

I hereby acknowledge receipt of the following:

*relia sub 45  
DW of*

~~REDACTED~~ - E

CHECK ~~16522~~ IN THE AMOUNT OF \$ ~~35,250.00~~  
RECEIVED. 22 JUN 1959

~~REDACTED~~ - C

Please return \_\_\_\_\_ signed copy(ies) of this receipt

\_\_\_\_\_  
SIGNATURE OF RECIPIENT

To \_\_\_\_\_

\_\_\_\_\_  
DATE RECEIVED

FORM NO. 752 REPLACES FORM 36-68  
1 AUG 55 WHICH MAY BE USED.

GPO 9417-00

(33)



**SECRET**

5 June 1959

**MEMORANDUM FOR: THE COMPTROLLER**  
**ATTENTION: Finance Division**  
**SUBJECT: MULLER, Subproject 45, Additional Authorization No. 8**

Under the authority granted in the Memorandum dated 13 April 1951 from the DRI to the DD/A, and the extension of this authority in subsequent memoranda, Subproject 45 was previously approved. Under the same authority an additional sum of \$3,760.00 has been authorized to cover the subproject's expenses and should be charged to Allotment 9-2502-75-902.

**Chief**  
**TSS/Chemical Division**

**APPROVED FOR OBLIGATION OF FUNDS:**

\_\_\_\_\_  
Research Director

Date: \_\_\_\_\_

**Distribution:**  
**Orig & 2 - Addresses**  
1 - TSS/OC  
1 - TSS/PASB  
2 - TSS/CD

**SECRET**

SECRET

TO: TSS/CD

This is an special account of obligated funds.

1. Date of Obligation: January 59
2. Purpose of Project: Study of Stressor materials and the Stress Reaction.
3. Progress to Date: Satisfactory
4. Expiration Date: January 60
5. Project Minitors: Dr. [REDACTED] A

FROM: TSS/CD

Room B-10, West Outbuilding, Ext. 8400

SECRET

Downgraded to: ~~TOP SECRET~~  
by authority of: 187475  
date: June 1977

DRAFT

45-86

E2 IMPDET; CL BY 187475

5 June 1959

MEMORANDUM FOR THE RECORD

SUBJECT: Supplement to Project MKULTRA, Subproject 45

1. One of the activities that the [REDACTED] engages in on behalf of the Agency is the procurement of rare chemical substances required for the various chemical and physiological research programs being carried on in TSS/CD. Some of these materials are derived from direct synthetic programs under the direction of the Fund and others are purchased as such from domestic or foreign sources when the opportunity to do so appears.

2. The purpose of this supplement to Subproject 45 is to add the sum of \$3760.00 to allow the expansion of the above portion of the [REDACTED] activities during the remainder of this year. This additional work has been made necessary because of developments which have taken place in other parts of the research program being carried out by TSS/CD which have occurred since the original allotment for the [REDACTED] was made.

3. All provisions of the original memorandum establishing the present grant to the [REDACTED] will apply to this supplement. The original allotment for Subproject 45 approved on 4 February 1959 was \$71,500.00. The amount of \$3760.00 (charges should be made against Allotment 9-2502-75-902) should be added to this to bring the total for this year to a total of \$75,260.00.

[REDACTED]  
Chief  
TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS

[REDACTED]  
Research Director

Date

6/8/59

Attachment:

Orig. Memo. Only  
Budget

Downgraded to: ~~TOP SECRET~~  
by authority of: 187475  
date: June 1977

E2 IMPDET; CL BY 187475

PROPOSED BUDGET

It is proposed to obtain certain substituted Indole compounds of types designated by the Sponsor from various synthetic programs being carried out in industrial facilities and to characterize these materials for the Sponsor's use in various physiological programs. It is estimated that the following budget will be required for six months:

Salaries.....	\$3,000.00
Travel.....	500.00
Supplies.....	260.00
	<hr/>
Total	\$3,760.00



WARNING NOTICE  
SENSITIVE INTELLIGENCE  
SOURCES AND METHODS INVOLVED

45-87

RECEIPT

Acknowledge herewith receipt of the following check:

Treasurer's check [redacted] dated June 17, 1959, in the  
amount of \$35,750.00, drawn on [redacted]  
[redacted], payable to [redacted] B E

Date

July 3 June 59

SECRET

45-88

11 June 1959

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

SUBJECT : MKULTRA, Subproject 45, Invoice No. 14  
Allotment 9-2502-75-902

1. Invoice No. 14 covering the above subproject is attached.  
Payment should be made as follows:

Cashier's check in the amount of \$35,750.00,  
drawn on a ~~XXXXXXXXXX~~ E

The check should be made payable to the ~~XXXXXXXXXX~~ B

2. Please forward the check to Chief, TSS/Chemical Division,  
through TSS Budget Officer, no later than 22 June 1959. Other  
invoices will follow.

A ~~XXXXXXXXXX~~  
Chief  
TSS/Chemical Division

Attachments:  
Invoice & Certifications

Distribution:  
Orig & 2 - Addressee  
1 - TSS/FASB  
2 - TSS/CD

TSS/CD (~~XXXXXXXXXX~~ 11 June 59) A

SECRET

**SECRET**

45-88

**INVOICE**

**For services**

**\$35,750.00**

**B** [REDACTED]

**CERTIFICATIONS**

(1) It is hereby certified that this is Invoice No. 14 applying to Subproject 45 of MKULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

C/TSS/Chemical Division

**Date:**

(2) It is hereby certified that this invoice applies to Subproject 45 of MKULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

**Date:**

**SECRET**

45-89

77 45

RECEIPT

Acknowledged herewith receipt of the following check:

Cashier's Check No. UT 4641, dated February 16, 1959,  
in the amount of \$35,750.00, drawn on [REDACTED] E  
payable to [REDACTED]

B

Date:

2/24/59 ←



45-90

**SECRET**

NO. 1713

9-350-15-111  
**ALCOHOL**

DATE	REMARKS AND REFERENCES	LIABILITIES INCURRED	LIABILITIES LIQUIDATED	UNLIQUIDATED BALANCE
9 FEB 1959	with 7 Feb 15	7150.00		7150.00
9 FEB 1959	Invoice 13		35750.00	
12 JUN 1959	14		35750.00	

*[Handwritten signature]*

SECRET

45-97

5 February 1959

MEMORANDUM FOR: CHIEF, FINANCE DIVISION  
 VIA : TSS/Budget Officer  
 SUBJECT : MHI/FA, Subproject 45, Invoice No. 13  
 Allotment 9-2502-75-902

1. Invoice No. 13 covering the above subproject is attached.  
 Payment should be made as follows:

Cashier's check in the amount of \$35,750,  
 drawn on a ~~XXXXXXXXXX~~ E

The check should be made payable to the ~~XXXXXXXXXX~~  
~~XXXXXXXXXX~~ B

2. Please forward the check to Chief, TSS/Chemical Division,  
 through TSS Budget Officer, no later than 12 February 1959. Other  
 invoices will follow.

A ~~XXXXXXXXXX~~  
 Chief  
 TSS/Chemical Division

Attachments:  
 Invoice & Certifications

Distributions:  
 Orig & 2 - Addressee  
 1 - TSS/FASB  
 2 - TSS/CD  
 TSS/CD/ ~~XXXXXXXXXX~~ (5Feb59)

I CERTIFY THAT FUNDS AVAILABLE  
 OBLIGATION REFERENCE No. 1713  
 CHARGE TO ALLOTMENT No. 9-2502-75-902  
 AUTHORIZING OFFICER

CHECK # 4641 IN THE AMOUNT OF \$ 35,750.00  
 RECEIVED.

SECRET

45-91-

**INVOICE**

For services

\$35,750.00

B. ~~REDACTED~~

**CERTIFICATIONS**

(1) It is hereby certified that this is Invoice No. 13 applying to Subproject 45 of MEXUTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipt is on file in TBS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TBS/Chemical Division

Date:

(2) It is hereby certified that this invoice applies to Subproject 45 of MEXUTRA which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Date:

45-92

SECRET

TO: TSS/CS

~~TOP SECRET~~

1. Date of Obligation: January 59

2. Purpose of Project: Study 7  
Storm materials and the stress  
reaction

3. Progress to Date: Satisfactory

4. Expiration Date: January 60

5. Project Monitor: ~~██████████~~ **A**

FROM: TSS/CS

Room B-10, West Outbuilding, Ext. 8612

SECRET

45-93

27 January 1959

**MEMORANDUM FOR: CONTROLLER**  
**ATTENTION: Finance Division**  
**SUBJECT: MULLER, Subproject 45, Additional Authorization No. 7**

Under the authority granted in the memorandum dated 13 April 1953, from the DCI to the ED/A and the extension of this authority in subsequent memoranda, Subproject 45 was previously approved. Under the same authority an additional sum of \$71,500.00 has been authorized to cover the subproject's expenses, to be charged to Allotment 9-2502-75-902.

~~XXXXXXXXXXXX~~  
 Chief  
 TSS/Chemical Division

**APPROVED FOR OBLIGATION OF FUNDS:**

\_\_\_\_\_  
 Research Director  
 Date: \_\_\_\_\_

**Distribution:**  
 Orig & 2 - Addressee  
 1 - TSS/OC  
 1 - TSS/FASB  
 2 - TSS/CD  
 TSS/CD: ~~XXXXXX~~ (27 Jan 59)

**SECRET**

SECRET

TO: TSS/CO

This is an invoice against previously obligated funds.

1. Date of Obligation: 27 Jan 1959  
2. Purpose of Project: Analysis of hypothalamic & endocrine mechanism of stress & chemical agents that modify it.

3. Progress to Date: Satisfactory

4. Expiration Date: 27 Jan 1960

5. Present Director: [REDACTED] A

FROM: TSS/CO

Room 8-0, West Building, [REDACTED] G

SECRET

Downgraded to: **CONFIDENTIAL**  
by authority of: 187475  
date: June 1977

E2 IMPDET; CL BY 187475

45-95  
26 January 1959

MEMORANDUM FOR: THE RECORD

SUBJECT : Continuation of MKULTRA, Subproject No. 45

1. The scope of this subproject includes all those activities now engaged in by the [REDACTED] under the direction of TSS/CD with the exception of those cutout functions specifically mentioned in connection with other MKULTRA subprojects. In general, the research effort under this subproject will continue along the lines laid down in previous years. These involve the synthesis and pharmacological and clinical evaluation of compounds of those chemical families known to have application in the psychochemical and "X" fields. During the past year important progress has been made in the area related to stressor compounds and the relationship of these materials to the physiological pathways through which both stress and the reaction to it are mediated in human beings. (In our Agency frame of reference, the fast adaptive reaction (nervous control) is of more vital importance than the slower humoral reaction (pituitary-adrenal axis). Since both of these pathways occur in the same individual, one of the major problems in doing research in this area has been the lack of knowledge of techniques allowing one to distinguish between the various types of observed phenomena. Progress made in this subproject on particular stressor agents and their relationships to known humoral agents for the first time permits the experimenter to make this distinction on a rational basis. As indicated in the attached proposal, this advantage will be pursued during the coming year with the following goals in mind:

- (1) Development of materials & techniques for the production of maximum levels of physical and emotional stress in human beings.
- (2) Development of materials and techniques which produce a maximum attenuation of stress in human beings once it has been produced.
- (3) Development of new and more reproducible indicators of stress than those now in use in the Agency. The emphasis in this will be on those indicators which can be measured indirectly.
- (4) Elucidation of the significant properties of the negative phase of stress in order that psychological techniques may be worked out in other projects to exploit this phase of the human reaction to potent emotional stress.

Downgraded to: **CONFIDENTIAL**  
by authority of: 187475  
date: June 1977

E2 IMPDET; CL BY 187475

Downgraded to: **CONFIDENTIAL**  
by authority of: 187475  
date: June 1977

45-95

E2 IMPDET; CL BY 187475

2. [redacted] also serves as a general consultant to the Agency, provides services of a sensitive nature on an ad hoc basis, and serves as a cut-out in procurement problems.

3. The total cost of this project for a period of one year will not exceed \$71,500. Charges should be made against Allotment 9-2502-75-902.

4. [redacted] has been requested to submit a summary accounting or a copy of the Fund's annual audit report for the sponsor's inspection. Also, it has been requested that any un-expended funds shall be returned to the Agency.

5. Title to any permanent equipment purchased by funds granted [redacted] shall be retained by the [redacted] in lieu of higher overhead rates.

6. It was mutually agreed that documentation and accounting for travel expenses which are normally reimbursable by the [redacted] shall conform with the accepted practices of the Fund.

7. [redacted] agreed to comply with the requirements of the Memorandum of Agreement.

[redacted signature]  
Chief  
TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS

[redacted signature]  
Research Director

Date: Feb. 4, 1977

Attachment:  
Proposal  
Original only

Downgraded to: **CONFIDENTIAL**  
by authority of: 187475  
date: June 1977

E2 IMPDET; CL BY 187475



The research to be undertaken during the next 12 months for which financial support is hereby requested will be devoted to the analysis of the hypothalamic and endocrine mechanism of stress and chemical agents that modify it. The investigations proposed are a direct continuation and outgrowth of those supported in the previous year.

The screening procedures to be used have been markedly widened in scope to embrace a consideration of both the metabolic and enzymatic effects of stress or of the chemical agents studied.

A novel screening procedure which depends upon the survival time of animals maintained without food or water has been devised and has already been put to practical use in demonstrating the role of the hypothalamus in survival. In addition to this over-all survival screening technic, screening technics have been devised for investigating separately the role of water and fat metabolism in stress.

It is proposed to continue work on the negative phase of stress which we have previously delineated by study of the egg white response in rats. (See research report for 1957 - 1958)

As an outgrowth of experiments performed in 1958 it is now possible to evaluate therapeutic agents at the enzymatic level. See research report enclosed. This technic of using a battery of enzyme systems in vitro as a method of evaluating the biological effectiveness of newly synthesized organic compounds opens up a whole new line of investigation and is the most rapid method of evaluation that has been devised to date and probably the most basic. It is proposed that we exploit this new approach to our utmost in the next twelve months.

The chemical synthesis of possibly active compounds will be continued at the [REDACTED] and the [REDACTED] and these chemical agents will be screened for their capacity to provoke stress or to suppress the stress reaction in its acute or chronic phases. The tests employed on animals will be used for screening and proper toxicity studies of the compounds will be carried out as heretofore.

**WARNING NOTICE**  
**SENSITIVE INTELLIGENCE**  
**SOURCES AND METHODS INVOLVED**

45-95

RESEARCH PROPOSAL  
1959 - 1960

PHARMACOLOGY AND TOXICOLOGY

Pharmacologist and technician	\$12,000.00	
<del>_____</del> toxicology	10,000.00	
Animal caretaker, animals and animal maintenance	<u>12,000.00</u>	\$34,000.00

CLINICAL SCREENING

Clinical assistants	10,000.00	
Clarial help and supplies	<u>5,000.00</u>	15,000.00

CHEMICAL SYNTHESIS

<del>_____</del> , consultant	1,500.00	
<del>_____</del>	5,000.00	
<del>_____</del>	12,000.00	
Chemical supplies	<u>4,000.00</u>	<u>22,500.00</u>

TOTAL \$ 71,500.00

WARNING NOTICE  
ACTIVE INTELLIGENCE  
AND METHODS INVOLVED

RECEIPT

Acknowledged herewith receipt of the following check:

Cashier's Check No. [REDACTED], dated September 30, 1958, E  
in the amount of \$21,733.34, drawn on [REDACTED] B  
payable to [REDACTED]

[REDACTED] C

Date: 6 Oct 58

45-96

45-97

450

8-3502-N-101

45

28 JAN 1958

Authorigators # 6

65,200.00

65,200.00

30 JAN 1958

Invoice # 10

31,733.33

13,466.67

24 APR 1958

Invoice # 11

31,733.33

31,733.33

24 SEP 1958

Invoice # 12

31,733.33

24 SEP 1958

Lig  
0

SECRET

22 September 1958

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

SUBJECT : MORTON, Subproject 45, Invoice No. 12,  
Allowment 8-2502-10-001

1. Invoice No. 12 covering the above subproject is attached.  
Payment should be made as follows:

Cashier's check in the amount of \$21,733.34,  
drawn on a ~~check~~ <sup>check</sup>

The check should be made payable to the ~~treasury~~ <sup>treasury</sup> B

2. Please forward the check to Chief, TSS/Chemical Division,  
through TSS/Budget Officer, no later than Monday, 6 October 1958.

3. This invoice represents the total amount currently author-  
ized under Subproject 45. However, since it is anticipated that ad-  
ditional funds will be obligated for this project, the files should  
not be closed.

~~\_\_\_\_\_~~ A  
Chief  
TSS/Chemical Division

CHECK ~~\_\_\_\_\_~~ H THE AMOUNT OF \$21,733.34  
RECEIVED 2, 1958

Attachments:  
Invoice and Certifications  
Distribution:  
Orig & 2 - Addressee

21,733.34

17,200.21 733.34

SECRET

SECRET H

**INVOICE**

For services

\$21,733.34

~~CONFIDENTIAL~~ B

**CERTIFICATIONS**

(1) It is hereby certified that this is Invoice No. 12 applying to Subproject 45 of NEULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipt is on file in TSS/100, that this bill is just and correct and that payment thereof has not yet been made.

\_\_\_\_\_  
Chief, TSS/Chemical Division

Date:

(2) It is hereby certified that this invoice applies to Subproject 45 of NEULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DG/A, and the extension of this authority in subsequent memoranda.

\_\_\_\_\_  
Research Director

Date:

47

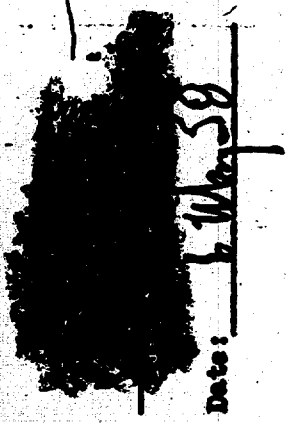
ODJ

RECEIPT

ss Acknowledged herewith receipt of the following check:

\_\_\_\_\_ Check No. 71601, dated April 30, 1958, in the amount of \$21,733.33, drawn on \_\_\_\_\_ payable to the \_\_\_\_\_

- E -  
- B -  
- C -



Date: 6 May 38



SEC

45-100

22 April 1958

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

SUBJECT : MURKIN, Subproject 45, Invoice No. 11,  
Allotment 8-2502-10-001

1. Invoice No. 11 covering the above subproject is attached.  
Payment should be made as follows:

Cashier's check in the amount of \$21,733.33,  
drawn on a ~~bank~~ bank.

The check should be made payable to the ~~bank~~ <sup>E</sup> ~~bank~~ <sup>B</sup>

2. Please forward the check to Chief, TSS/Chemical Division,  
through TSS/Budget Officer, no later than Wednesday, 7 May 1958.

3. This invoice represents the total amount currently  
authorized under Subproject 45. However, since it is anticipated  
that additional funds will be obligated for this project, the  
files should not be closed.

~~Signature~~  
Chief  
TSS/Chemical Division

Attachments:  
Invoice and Certifications

DISTRIBUTION:  
Orig & 2 Addressee  
✓ 1 - TSS/FASB  
2 - TSS/CD

I CERTIFY THAT THE  
OBLIGATION REFERENCE NO. 1450  
CHARGE TO ALLOTMENT NO. 8-2502-10-001

AUTHORIZING OFFICER

CHECK # 2161 IN THE AMOUNT OF \$ 21,733.33  
RECEIVED. 5 MAY 1958

SECRET

INVOICE

For services

\$21,733.33



CERTIFICATIONS

(1) It is hereby certified that this is Invoice No. 11 applying to Subproject 45 of MOUTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

\_\_\_\_\_  
Chief, TSS/Chemical Division

Date:

(2) It is hereby certified that this invoice applies to Subproject 45 of MOUTRA which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

\_\_\_\_\_  
Research Director

Date:

45-101

**SECRET**

22 January 1958

**MEMORANDUM FOR: CONTROLLER**

**ATTENTION : Finance Division**

**SUBJECT : MURKIN, Subproject 43, Additional Authorization No. 6**

Under the authority granted in the memorandum dated 13 April 1953, from the DCI to the DD/A and the extension of this authority in subsequent memoranda, Subproject 43 was previously approved. Under the same authority an additional sum of \$65,200.00 has been authorized to cover the subproject's expenses (thereby bringing to a total of \$65,200.00 funds obligated during FY 58), to be charged to Allotment 8-5502-10-001.

~~XXXXXXXXXX~~ - A  
Chief  
TSS/Chemical Division

**APPROVED FOR OBLIGATION OF FUNDS**

~~XXXXXXXXXX~~ - A  
\_\_\_\_\_  
Research Director

Date: \_\_\_\_\_

**Distribution:**  
Orig & 2 - Addressee

- 1 - TSS/CC
- 1 - TSS/FASB
- 1 - TSS/CD

TSS/CD: ~~XXXXXXXXXX~~ (21 January 1958)



I CERTIFY THAT FUNDS ARE AVAILABLE FOR OBLIGATION BY THIS DATE  
OBLIGATION PERIOD: 1450  
CHARGE TO: 8-5502-10-001  
ACCOUNTING OFFICER

**SECRET**

45-102

R E C E I P T

Acknowledged herewith receipt of the following check:

 Check No. , dated February 7, 1958, in the amount of \$21,733.33 drawn on the  payable to the 

-E  
-B



-C

Date: 20 Feb 58

45-103

SECRET

28 January 1958

**MEMORANDUM FOR:** CHIEF, FINANCE DIVISION

**VIA:** TBS/Budget Officer

**SUBJECT:** MILITARY Subproject 45, Invoice No. 10  
~~XXXXXXXXXXXXXXXXXXXX~~

1. Invoice No. 10 for the above subproject is attached.  
 Payment should be made as follows:

Cashier's check in the amount of \$21,733.33,  
 drawn on a ~~XXXXXXXXXX~~ bank.

The check should be made payable to the ~~XXXXXXXXXX~~ **B**

2. Please forward the check to Chief, TBS/Chemical  
 Division through TBS/Budget Officer by Tuesday, 4 February 1958.  
 Other invoices will follow.

~~XXXXXXXXXXXXXXXXXXXX~~ **A**  
 Chief  
 TBS/Chemical Division

Attachments:  
 Invoice & Certifications

~~XXXXXXXXXXXXXXXXXXXX~~ **E**  
 CHECK # ~~XXXXXXXXXX~~ 11997 THE AMOUNT OF \$ 21,733.33  
 RECEIVED.

Distributions:  
 Orig & 2 - Addressee

~~XXXXXXXXXXXXXXXXXXXX~~ **A**

Gu. 229 001450 6001 2502-10-001 171 \$ 21,733.33

Mr. Cash CERTIFIED FOR PAYMENT OR CREDIT \$ 21,733.33

**A** ~~XXXXXXXXXX~~  
 AUTHORIZED CERTIFYING OFFICER  
 4 FEB 1958

00733

SECRET

45-103

INVOICE

For services

\$21,733.33

~~XXXXXXXXXXXXXXXXXXXXXXXXXXXX~~  
~~XXXXXXXXXXXXXXXXXXXXXXXXXXXX~~ B

CERTIFICATIONS

(1) It is hereby certified that this is Invoice No. 10 applying to Subproject No. 45 of MULLERA, that performance has been satisfactory, that the services have been accomplished in accordance with actual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSS/Chemical Division

Date:

(2) It is hereby certified that this invoice applies to Subproject No. 45 of MULLERA which was duly approved, and that the project has been carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Date:

Downgraded to: CONFIDENTIAL  
by: [redacted] 187475  
Date: June 1977  
E2 IMPDET; CL BY 187475

45-104

DRAFT/ [redacted] A

21 January 1958

MEMORANDUM FOR: THE RECORD

SUBJECT : Continuation of MKULTRA, Subproject No. 45

B

1. The scope of this subproject includes all those activities now engaged in by [redacted] under the direction of TSS/CD with the exception of those cutout functions specifically mentioned in connection with other MKULTRA subprojects. In general, the research effort under this subproject will continue along the lines laid down in previous years. These involve the synthesis and pharmacological and clinical evaluation of compounds of those chemical families known to have application in the psychochemical and "K" fields. Clinical work in the "natural toxic psychoses" carried out last year indicates that, in general, the useful (reversible) phases of such psychoses are related to the presence of various chemical stressor materials in the circulation. These materials arise from faulty metabolic processes occasioned by the particular disease in question. Materials synthesised in the project are capable of reproducing the various clinical syndromes that are observed in the natural disease.

Shw  
-C-

2. Knowledge of the nature of the important stressor compounds indicated above has allowed the design of an animal test which indicates relative potency, mode of action, etc., of these materials without the necessity of expensive and hazardous clinical testing in this area. During the coming year as indicated in the attached proposal from [redacted], a limited program of synthetic work and the attendant testing and screening will be carried out; but the major effort will be related to studies directly concerned with the production and control of the stress reaction in human beings. In line with the requested reduction of effort in biochemical research in TSS/CD, the funding of this project during the coming year has been reduced some 34% over last year.

OK C

3. [redacted] also serves as a general consultant to the Agency, provides services of a sensitive nature on an ad hoc basis, and serves as a cut-out in procurement problems.

\$71,500

4. The total cost of this project for a period of one year will not exceed \$67,200.00. Charges should be made against Allotment 8-2502-10-001.

9-2502-75-902

Downgraded to: CONFIDENTIAL  
by: [redacted] 187475  
Date: [redacted]  
E2 IMPDET; CL BY 187475

[redacted signature]

Downgraded to: CONFIDENTIAL

Authority of: 187475

Date: June 1977

E2 IMPDET; CL BY 187475

45-104

DRAFT/

A

C

5. [redacted] has been requested to submit a summary accounting or a copy of the Fund's annual audit report for the sponsor's inspection. Also, it has been requested that any un-expended funds shall be returned to the Agency.

S  
B

6. Title to any permanent equipment purchased by funds granted [redacted] shall be retained by [redacted] in lieu of higher overhead rates.

B

B

7. It was mutually agreed that documentation and accounting for travel expenses which are normally reimbursable by [redacted] shall conform with the accepted practices of the Fund.

B

C

8. [redacted] agreed to comply with the requirements of the Memorandum of Agreement.

[redacted signature]

A

Chief  
TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS:

[redacted signature]

A

Research Director

Date: June 27-1978

Attachment:  
Proposal

Original only

Downgraded to: CONFIDENTIAL

Authority of: 187475

Date: July 1977

E2 IMPDET; CL BY 187475



45-109  
ENDING NOTICE

SECRET INTELLIGENCE  
AND METHODS INVOLVED

RESEARCH PROPOSAL  
1958 - 1959

The research to be undertaken during the 12 months period for which financial support is requested will be devoted to an analysis of the neural and endocrine mechanism of stress and the chemical agents that influence it. The screening procedures are based largely upon the analysis of the General Adaptation Syndrome that has been worked out in rats during the past year, an outline of which is appended.

The chemical synthesis of possibly active compounds will be continued at the [REDACTED] and the [REDACTED] [REDACTED] and these chemical agents will be screened for their capacity to provoke stress or to suppress the stress reaction in its acute or chronic phases. The tests employed on animals will be used for screening and proper toxicity studies of the compounds will be carried out as heretofore.

Chemical agents that have been found active and within a suitable toxicity range will be subjected to clinical screening on appropriate patients, the initial screening being carried out as heretofore on advanced cancer patients. The amount of money devoted to chemical synthesis will be much reduced and chemical compounds available from various sources as well as those synthesized in the project will be screened.

As heretofore any agents which prove of interest in cancer will be subjected to further evaluation both on transplanted animal tumors and on cancer patients. This cancer phase of the project.

will be considered a by-product of the major objective, which  
will be directed to the problem of stress.

~~WARNING NOTICE~~  
~~SENSITIVE INTELLIGENCE~~  
~~SOURCE AND METHODS INVOLVED~~

PROPOSED BUDGET  
1958 - 1959

1 - PHARMACOLOGY AND TOXICOLOGY

Pharmacologist and technician	\$ 12,000.00	
[REDACTED], toxicology	8,000.00	
[REDACTED] - Special screening procedures	1,200.00	
Animal caretaker, animals and animal maintenance	<u>12,000.00</u>	\$ 33,200.00

2 - CLINICAL SCREENING

Clinical assistants	9,500.00	
Clerical help and supplies	<u>5,000.00</u>	14,500.00

3 - CHEMICAL SYNTHESIS

[REDACTED], consultant	1,500.00	
[REDACTED]	5,000.00	
[REDACTED]	7,000.00	
Chemical Supplies	<u>4,000.00</u>	<u>17,500.00</u>

TOTAL		\$ 65,200.00
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45-705

Sub-45

R E C E I T

Acknowledged herewith receipt of the following check:

Official check No. G20408, dated October 28, 1957, in the  
amount of \$33,333.33 drawn on the [REDACTED]

E [REDACTED] payable to

E  
B

for [REDACTED]

C

Date: 30 Oct. '57



17 October 1957

TSS

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

SUBJECT : MKULTRA Subproject 45, Invoice No. 9  
Allotment 7-2502-10-001

1. Invoice No. 9 for the above subproject is attached.  
Payment should be made as follows:

E Cashier's check in the amount of \$33,333.33, drawn  
on a ██████████ bank.

The check should be made payable to ██████████ B

B ██████████

2. Please forward the check to Acting Chief, TSS/  
Chemical Division through TSS/Budget Officer by Thursday,  
31 October 1957. Other invoices will follow.

██████████  
Acting Chief  
TSS/Chemical Division

A  
MOR 15/57

Attachments:  
Invoice & Certifications

██████████ E

Distribution:  
Orig & 2 - Addressee  
1 - Comptroller

██████████ A

29 Oct 57  
No. 6001-2502-10-001-162-2 33,333.33  
CA (Invoice) @ 33,333.33  
1957 OCT 25 10 55 AM DTIC

CERTIFIED FOR PAYMENT OR CREDIT  
RECEIVED  
10/23/57  
AUTHORIZED SIGNATURE OFFICER

~~SECRET~~

**INVOICE**

**For services**

**\$33,333.33**

**CERTIFICATIONS**

(1) It is hereby certified that this is invoice No. 9 applying to Subproject No. 45 of MKULTRA, that performance has been satisfactory, that the services have been accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

\_\_\_\_\_  
**Acting Chief, TSS/Chemical Division**

**Date:**

(2) It is hereby certified that this invoice applies to Subproject 45 of MKULTRA which was duly approved, and that the project has been carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

\_\_\_\_\_  
**Research Director**

**Date:**

*[Handwritten signature]*

RECEIPT

Acknowledged herewith receipt of the following check:

Official check No. 209-288152, dated May 14, 1957, in the  
amount of \$33,333.33, drawn on the [REDACTED]  
[REDACTED] payable to [REDACTED]

E

E  
B

[REDACTED]

C

Date: 10 May '57

801-108  
45-54



45-109  
TSS

3 May 1957

**MEMORANDUM FOR: CHIEF, FINANCE DIVISION**

**VIA: TSS/Budget Officer**

**SUBJECT: MKULTRA Subproject 45, Invoice No. 8  
Allotment 7-2502-10-001**

1. Invoice No. 8 for the above subproject is attached. Payment should be made as follows:

E Cashier's check in the amount of \$33,333.33, drawn on a [redacted] bank.

B The check should be made payable to [redacted] B

2. Please forward the check to Chief, TSS/Chemical Division through TSS/Budget Officer by Friday, 17 May 1957. Other invoices will follow.

**SIDNEY GOTTLIEB**  
Chief, TSS/Chemical Division

**Attachments:**  
Invoice & Certifications

[redacted] E

CHECK # [redacted] IN THE AMOUNT OF \$33,333.33  
RECEIVED 17 MAY 1957

**Distribution:**  
Orig & 2 - Addressee  
1 - Comptroller

[redacted] A

Dr. 600.1-887-2502-10-001-17.9 - & 33,333.33  
Cr. [redacted] - & 33,333.33

1821  
CERTIFIED FOR PAYMENT OR CREDIT  
3/10/57 [signature] A  
AUTHORIZED CERTIFYING OFFICER

RECEIVED

S-2636

45-109

*[Handwritten Signature]*  
**INVOICE**

**For services**

**\$33,333.33**

**[Redacted]**  
**[Redacted]**

**B**

**CERTIFICATIONS**

(1) It is hereby certified that this is Invoice No. 8 applying to Subproject 45 of MKULTRA, that performance has been satisfactory, that the services have been accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

A Chief, TSS/Chemical Division

**Date:**

(2) It is hereby certified that this invoice applies to Subproject 45 of MKULTRA which was duly approved, and that the project has been carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

**Date:**

*[Handwritten Signature]*

RECEIPT

45-110

Receipt is hereby acknowledged of the following check:

Cashier's check No. 400840, dated February 12, 1957,  
drawn on [REDACTED] E  
in the amount of \$33,333.34, payable to [REDACTED] B

B

Date: 2-26-57

RECEIPT

Receipt is hereby acknowledged of the following check:

Cashier's check No. 400840, dated February 12, 1957,  
drawn on [REDACTED] E  
in the amount of \$33,333.34, payable to [REDACTED] B

B

Date: 2-26-57

45-110

**RECEIPT**

Receipt is hereby acknowledged of the following check:

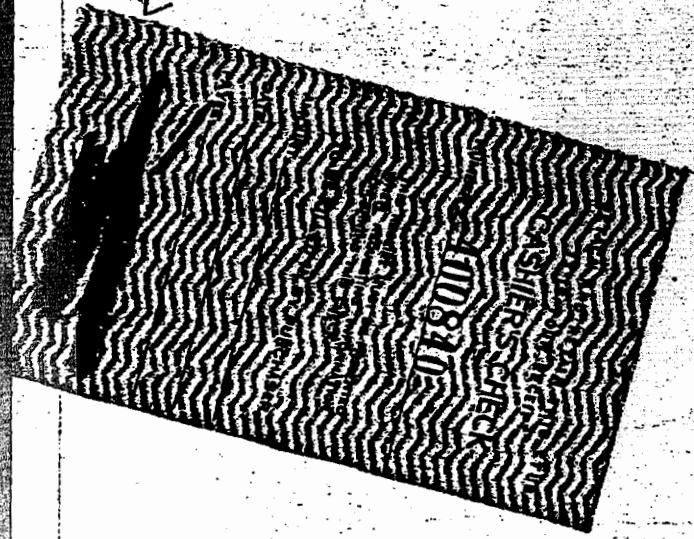
Cashier's check No. 400840, dated February 12, 1957,  
drawn on [REDACTED]  
in the amount of \$33,333.34, payable to [REDACTED]

100

Date:

*Given to* [REDACTED] *A*  
*on* [REDACTED] 25 February 1957  
*A*

E



95-111

~~SECRET~~

25 January 1957

**MEMORANDUM FOR: CHIEF, FINANCE DIVISION**

**VIA: TSS/Budget Officer**

**SUBJECT: MKULTRA Subproject 43, Invoice No. 7  
Allotment 7-2502-10-001**

1. Invoice No. 7 for the above subproject is attached. Payment should be made as follows:

E Cashier's check in the amount of \$33,333.34, drawn on a ~~bank~~ bank.

B The check should be made payable to the ~~bank~~

2. Please forward the check to Chief, TSS/Chemical Division through TSS/Budget Officer by Friday, 8 February 1957. Other invoices will follow.

**SIDNEY GOTTLIEB  
Chief  
TSS/Chemical Division**

**Attachments:  
Invoice & Certifications**

CHECK # 408510 THE AMOUNT OF \$33,333.34 RECEIVED.

**Distribution:  
Orig & 2 - Addressee  
1 - Comptroller**

~~Redacted signature area~~ A

Dr. 600.1-887-2502-10-001-17.1- \$ 33,333.34  
Cl. Cash B 33,333.34

CERTIFIED FOR PAYMENT OR CREDIT  
1/29/57  
AUTHORIZING OFFICER

5-1406

45 111

~~SECRET~~

**INVOICE**

**For services**

**\$33,333.34**

-----

**CERTIFICATIONS**

(1) It is hereby certified that this is Invoice No. 7 applying to Subproject 45 of MKULTRA, that performance has been satisfactory, that the services have been accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSS/Chemical Division

**Date:**

(2) It is hereby certified that this invoice applies to Subproject 45 of MKULTRA which was duly approved, and that the project has been carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

**Date:**

~~SECRET~~

15-112

~~SECRET~~

17 January 1957

**MEMORANDUM FOR: COMPTROLLER**

**ATTENTION: Finance Division**

**SUBJECT: IKKULTRA, Subproject #3, Additional Authorization No. 5**

Under the authority granted in the memorandum dated 13 April 1953, from the DCI to the DD/A and the extension of this authority in subsequent memoranda, Subproject 45 was previously approved. Under the same authority an additional sum of \$100,000.00 <sup>71,500.00</sup> has been authorized to cover the subproject's expenses (thereby bringing to a total of \$100,000.00 funds obligated during FY 57), to be charged to Allotment 7-2502-10-001.

**SIDNEY GOTTLIEB**  
Chief  
TSS/Chemical Division

**APPROVED FOR OBLIGATION OF FUNDS:**

MOR 1515

\_\_\_\_\_  
Research Director

Date:

Distribution:

Orig & 2 - Addressee

- 1 - TSS/OC            1 - TSS/SRB
- 1 - TSS/FASB        2 - TSS/CD

TSS/CD (17 January 1957)

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~~SECRET~~

DRAFT  
17 January 1957

E2 IMPDET. AT BY 102485

MEMORANDUM FOR: THE RECORD

SUBJECT: Project MKULTRA, Subproject 45

1. The scope of this subproject includes all those activities now engaged in by the [redacted] under the direction of TSS/CD with the exception of those cutout functions specifically mentioned in connection with other MKULTRA subprojects. In general, the research effort under this subproject will continue along the lines laid down in previous years. These involve the synthesis and pharmacological and clinical evaluation of compounds of those chemical families known to have application in the psychochemical and "K" fields. // Also, last year, research in the field of so-called "natural toxic psychoses" was undertaken and will be continued during the coming year.

step 11

B

2. The attached proposal from [redacted] because of its unclassified status, is couched in therapeutic terms; therefore, a certain amount of translation of its substance is warranted. Very briefly, the study on "toxic psychoses" has permitted the possible sources of reversible psychotic and/or comatose conditions to be narrowed down to a workable maximum number about which critical experiments can be designed to test various hypothetical chemical mediators. The chemical synthetic and screening program (some 100 new compounds during the year) has turned up three compounds of different families which are of fundamental importance with relation to the goals of this project. These three compounds include an orally active material which reduces blood glucose; another which acts by all routes, including percutaneous, and which appears to be the chemical mediator of "stress", and finally, a compound which is also orally active and which is a very potent new type of barbiturate and possibly alcohol antidote. It is now proposed to reduce the volume of the synthetic chemical effort in order to work out the pharmacological and clinical aspects of these and closely related substances.

C

3. [redacted] also serves as a general consultant to the Agency, provides services of a sensitive nature on an ad hoc basis, and serves as a cut-out in procurement problems.

C

4. The total cost of this project for a period of one year will not exceed \$100,000.00. Charges should be made against Allotment 7-2502-10-001. 65,000.00

CONFIDENTIAL

E2 IMPDET



CONFIDENTIAL  
by authority of: [redacted]  
date: June 1957

E2 IMPDET

5. [redacted] has been requested to submit a summary <sup>C</sup> accounting or a copy of the [redacted] annual audit report be made avail-<sup>B</sup> able for the sponsor's inspection. Also, it has been requested that any unexpended funds shall be returned to the Agency.

6. Title to any permanent equipment purchased by funds granted [redacted] shall be retained by the [redacted] <sup>B</sup> in lieu of higher overhead rates.

7. It was mutually agreed that documentation and accounting for travel expenses which are normally reimbursable by [redacted] <sup>B</sup> shall conform with the accepted practices of the Fund.

8. [redacted] agreed to comply with the requirements of the Memorandum of Agreement. <sup>C</sup>

[redacted] <sup>A</sup>

Chief, Branch II  
TSS/Chemical Division

APPROVED FOR OBLIGATION  
OF FUNDS:

[redacted] <sup>A</sup>  
Research Director

APPROVED:

*[Signature]*  
Chief, TSS/Chemical Division

Date: 23 Jan 1957.

Attachment:  
Proposal

Original only

CONFIDENTIAL  
by authority of: 127475  
date: June 1957  
E2 IMPDET

### PROPOSED RESEARCH PROGRAM

Four lines of investigation are proposed for the year 1957-58. The first line of investigation is the continuation of the toxic psychic states as illustrated by uremia, which was begun under the last grant. In the present proposal it is planned to study various phases of the uremic state along two major lines. One of these is the biochemical and pathological investigation of patients admitted to [REDACTED] B

[REDACTED] The other line of investigation will be pursued on experimental animals. Kidneys have either been removed or have been rendered nonfunctional by the ligation of the ureters. The major aspects of these two investigations are discussed in the appended report.

The second investigation proposed has to do with the investigation of novel glucose metabolic blocking agents. We are currently investigating a series of diglycolate derivatives which we have shown to block glucose metabolism with resulting storage of glycogen in the various organs, liver and kidney. The details of this are also appended.

The third proposal has to do with the study of some cyclic diamino compounds which we have shown produce the stress of phenomenon and associated rheumatoid states. The details of this proposal are also appended.

The fourth proposal concerns the continuation of chemical synthesis of a variety of piperazine compounds which will be linked with sarcosine. This report is also appended.

A similar line of chemical synthesis is also being carried out on nitrogen-containing bis phenols. These two parallel lines of chemical synthesis are a continuation of the investigations of [REDACTED] C

[REDACTED]

W. [REDACTED] [REDACTED]

[REDACTED]



On the living patients it is possible by placing them on the artificial kidney and by adjusting the fluid bath which controls the dialysis, to differentially modify each of these three components in individual cases and to determine its effect on comatose states in patients. It is also possible to check this with spinal fluid determinations.

In the experiments that have been set up on animals we have living for periods of two to four days uremic rats and rabbits whose kidneys have been removed or whose kidneys are non-excreting because of ligation of the ureters. In the initial experiment on these animals we have been interested in simple fluid redistribution in the uremic state. It has been known for some time that patients dying of uremia may show increased fluid accumulation in any or all of the serous cavities. In other words, they show an accumulated transudate in the peritoneal cavity, in the pericardial cavity, in the pleural cavity or in the meningeal cavity of the subarachnoid space. In the control animals and in many patients, death from uremia occurs before this change in fluid distribution has occurred. In our experiments, by giving cortisone we can markedly increase the transudating fluid in all of these cavities and therefore produce at will cerebral edema along with increased fluid in the other serous cavities while the animal is still alive. This change in the distribution of fluid is important since in all the textbooks on uremia prior to recent potassium studies, the uremic state as exemplified by psychoses and coma, was thought to be due to cerebral edema or simple wet brain. One of the most striking bits of ignorance that were confronted in these studies is the fact that although it has been known for hundreds of years that there is such redistribution of fluid in the serous cavities, no one has ever raised the question whether it is due to increased rate of effusion or delayed rate of absorption, or both.

It is becoming increasingly evident in the study of abnormal fluid distribution in the body that there are two major controlling factors. One of these is the chemical

**WARNING NOTICE**

constitution of the fluid to be exchanged which may alter diffusion constants by its ionic or osmotic components, or alter the diffusion rate by containing constituents which damage or otherwise alter the diffusion membrane. The second factor is the biological composition of the diffusion membrane with its living structure and collagenous matrix. In the past several hundred years the tanning industry has been working with the biochemical properties of collagen since leather is 90 to 95% collagen. The workers in this industry have accumulated a large amount of information on two different agents. Those that wet or render more pliable collagen matrix and therefore make it more porous, and those that harden or toughen the collagen matrix and therefore render it less permeable. The first class of agents is termed lyotropic and its classical member is dilute acetic acid. The other group of agents is called tannin and the classical agent is tannic acid or the pyrogalllic acids. This group of agents can be applied to the diffusion membranes to alter their reaction. Since many of the induced cerebral states can be attributed directly to hydration or dehydration of the cerebral substance, this investigation of the diffusion rates into and out of the serous cavities of the meninges offers a fundamental approach to study of one aspect of cerebral function.

~~WARNING NOTICE~~~~SENSITIVE INTELLIGENCE~~

## II - INVESTIGATION OF GLUCOSE METABOLISM AND ITS RELATION TO MENTAL FUNCTION AND CANCER THERAPY

It is well known that the brain in its metabolic function relies heavily on glucose and oxygen. The importance of the relation of glucose to cerebral function was first emphasized by the introduction of insulin shock therapy into the treatment of schizophrenia. This form of shock therapy was subsequently replaced by electric shock, but recently <sup>C</sup> [redacted] of [redacted] <sup>B</sup> [redacted] has shown that in diabetes the psychotic state can be induced by low blood sugar in the brain from sensitivity to insulin and can be reversed to normal by the intravenous administration of glucose. The author has been interested in substituting orally active and nontoxic chemical compounds as a substitute for insulin with the hope that more simple methods can be devised for modifying cerebral metabolism. A series of alkyl and alkylamino esters of oxy-diacetic acid have been prepared which block some phase of the Krebs's cycle of glucose metabolism. The exact point of blockage remains to be determined. The phenomena of blockage by these compounds, however, have been demonstrated in animals by showing that they produce glycogen storage in the liver, heart, and kidneys by preventing the conversion of glycogen to glucose. For the first time it has been possible to produce experimentally von Gierke's disease, which is characterized by glycogen storage in the above-mentioned organs.

The phenomenon of glycogen storage was first produced by both the dimethyl and diethyl derivatives of the diglycolate compounds. The initial experiments consisted of giving groups of six rats each doses of 5, 10, and 25 mg. per rat daily for periods of 6 weeks to 2 months. The glycogen storage was most marked early in the course of the administration, as demonstrated by sacrificing some rats at the end of 2 to 4 days. The experiments were subsequently modified to include rabbits, so that the blood and urine studies could be more easily made. It was shown in rabbits that the compounds initially

WARRING'S NOTICE

produced glycosuria, which disappeared in 48 hours. The fasting blood sugar of the animals is lowered; no acetone bodies appear in the urine.

In the next experiment the compounds were administered orally, intramuscularly or intravenously to cancer patients and were found effective in controlling for a period of 3 months (to-date) diseases in the lymphoma and leukemic class. These patients have been able to tolerate the compound, and although it initially produced lowering of the blood sugar, if the dose is not increased, there is acquired tolerance to the hypoglycemic effect of the drug.

In the next experiment, the drug was administered to four diabetic patients. The blood sugar can be reduced in fresh diabetics not previously subjected to insulin from a level of 350 mg% to 250 mg% by the administration of 250 mg. of the compound. Diethyl is more potent than dimethyl derivatives. In other diabetics the blood sugar levels can be satisfactorily controlled for a period of 3 to 4 weeks on small doses but after that time tolerance develops, and the dosage must be raised. The compound lowers blood sugar by glycogen storage, but does not increase the capacity to burn sugar. Insulin must therefore be added.

In another group of experiments about to be undertaken, it is planned to administer these drugs to hospitalized diabetics and study the effect on mental function of large doses of the compound.

Several of the cancer patients on the compound have complained of mental fogging, which is accompanied by complete relief from pain on high dosage. This mental fogging, of course, is not experienced by diabetics and must be a function of the glucose level in the brain.

It is planned to synthesize a group of allied compounds and to broaden this line of investigation. It is also planned to utilize a Warburg apparatus and electrophoresis in order to elucidate the exact phase of glucose metabolism that is inhibited by these compounds.

III [REDACTED] C

By

[REDACTED] C

and

[REDACTED] C

Prolongation of the Inflammatory Process by Immune Responses. When bacteria or similar injurious substances gain access to living tissues the local capillary bed responds and permits the escape of fluid and leucocytes into the zone of injury. Most of the extravasated fluid returns to the circulation by the lymphatics because the inflammatory edema compresses capillaries and venules but distends the lymphatics, which are anchored by numerous septa to the interstitial fluid compartment.

The modified interstitial fluid from the injured area which returns via lymphatics traverses lymphoid tissue in the lymph nodes. The lymphoid tissue, within 3 to 7 days, responds by liberating antibodies which enter the circulation and return to the injured site where they serve to neutralise the injurious agent by uniting antibody with antigenic substances.

It is customary to describe the immune response which follows the inflammatory reaction to local injury as a co-defensive mechanism, which is highly specific and nearly 100 per cent efficient in its end results. A study of the allergic diseases such as hay fever, asthma, urticaria and eczema and the occurrence of such dramatic reactions as fatal anaphylaxis or extensive necrosis in the Arthus's phenomenon indicates that antibody-antigen reaction is not as accurate and efficient as immunologists lead us to believe.

\* Supported by Grant [REDACTED]

\*\* [REDACTED] B

\*\*\* [REDACTED] C, B

WARNING NOTICE

SENSITIVE INFORMATION

CONFIDENTIAL INFORMATION INVOLVED





tendency for alarmine to further prolong the inflammatory reaction is inhibited by adrenal cortical hormone, which reaches the inflamed tissues via the circulation. This cortisone neutralizes the local alarmine effect and further inflammatory response is not provoked. 3. If the amount of antigen is unusually great or if repeated exposure to the antigen occurs alarmine is not neutralized but prolongs the general adaptation syndrome and at the same time provokes an even more marked vascular change, which has been erroneously termed collagenous necrosis, but is instead a misguided form of incipient fibrous repair.

It is the purpose of the present communication to describe the actions of amine irritants of the alarmine class, and to show their role in triggering the alarm reaction in the adrenal and also their role in the production of so-called diffuse collagen disease. We have been able to produce for the first time experimentally rheumatic myocarditis with Aschoff bodies, rheumatoid arthritis with rheumatoid nodules, and a variety of vascular lesions known as diffuse collagen disease, by irritant amines of relative simple chemical structure. (Fig. I).

Experimental Results of Painting Rats with Alarmine. In the original experiment 24 rats were painted twice daily with a 5 per cent solution of dimethyl dianiline. The solution in sesame oil was applied to a shaved area of skin on the thigh approximately 2 x 3 cm. in size. The rodents died within 36 to 72 hours. Vesicles or ulcerations of the skin appeared in all rats living more than 48 hours. The effect on the epidermis was similar to that of nitrogen-mustard, with destruction of the basal cells of the epidermis and vesiculation of nuclei. In some of these rats at autopsy the adrenals were slightly enlarged and hemorrhagic. It was, therefore, decided to undertake chronic toxicity studies and to study in detail the effect of the compound on the systemic organs, instead of restricting the study to the skin.

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 SOURCE AND METHOD OF INFORMATION

From the knowledge of the formula and the effects on the skin and adrenal, it was assumed that one of two things might explain the results. The toxicity of the compound might have destroyed tissue and in this way caused adrenal hyperfunction through an alarm reaction; or the compound could be akin to that studied by Landsteiner, in which phenylamines acting as haptens combined with proteins to produce antibody reactions, thus producing an alarm reaction with first hypertrophy and then exhaustion of the adrenals through an allergic response. The results were puzzling, but interesting.

A second series of experiments were undertaken in which three groups of rats were painted daily on the surface of the shaved skin of the thigh over an area of approximately 2 x 3 cm. These were Wistar rats weighing 120 Gm.

Group I, consisting of eight rats, was painted with a 2 per cent solution in sesame oil daily except Sunday. Four untreated rats served as controls.

Group II, consisting of eight rats, was painted with a 1 per cent solution in sesame oil daily except Sunday. Four untreated rats served as controls.

Group III, consisting of eight rats, was painted with a 0.5 per cent solution in sesame oil daily except Sunday. Four untreated rats served as controls.

Group I. High Dosage. The rats died between 10 and 15 days, on the average of 12 days. They showed stationary weight. The skin showed some ulceration and vesicles, but not as severe as with the 5 per cent solution. Grossly, the adrenals did not appear to be markedly enlarged. The spleen and lymphoid tissues showed slight atrophy. The lungs showed increased secretion in the bronchi, and these rats seemed to die of pulmonary edema and congestion. The heart was dilated. Microscopically, the pulmonary edema was due to exudation of plasma (so-called lymphorrhagia) about the smaller blood vessels in the lung. The basement membrane of these smaller vessels showed smudging and dissolution and the endothelial lining cells projected into the lumen and some were detached. In the heart there was an accumulation of spindle cells <sup>between</sup> (endothelial cells liberated by dissolution of adjacent capillaries) lying between

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 WARNING NOTICE

the myocardial fibers, where they had been separated by edema fluid from leaking vessels similar to those found in the lungs. Some of the sections showed typical Aschoff bodies (Figs. 2 and 3). There were numerous dilated vascular spaces lined by a single layer of endothelium and many extravasated erythrocytes. In the synovial membranes of the knee joint the capillaries were dilated and filled with red cells, some of which were undergoing lysis. There was smudging of the ground substance immediately beneath the mesothelial lining layer. In the bone marrow the capillaries were similarly dilated and there were areas of coagulated extravasated fluid. The bone marrow elements were intact. The spleen showed almost complete disappearance of lymphoid pulp. The surviving germinal centers showed evidence of necrosis. Other organs were negative.

Group II. Middle Dosage. These rats lived a maximum period of 2 months, and they died between the 30th and 60th day. They showed failure to gain weight. At autopsy, grossly, the lungs were congested and showed pulmonary edema and increased secretion in the bronchi. There was some thickening of the arteries in the lungs, but not the veins. Histologically, there was some "onion peeling" of small arteries and arterioles, but some of the controls showed similar changes. The heart was dilated and the adrenals were enlarged. Microscopically, the adrenals showed hypertrophy and hyperplasia confined to the cortex. The spleen and lymphoid tissues were similar to Group I. Microscopically, the spleen showed reduction of lymphoid tissue and necrosis of the germinal centers. There was increased number of macrophages in the pulp with numerous binucleated forms. (Figure 4) and 5. The heart showed focal fibrosis with Anitschkow's cells and some Aschoff bodies, and about this there were areas of fibrinoid degeneration. The joint changes in animals that died early were similar to Group I. Other organs were negative.

Group III. Low Dosage. Some of the rats in this group died 6 weeks after the beginning of the experiments, but some were still living 3 months

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later. At autopsy, the outstanding finding was endothelial proliferation of the lining of small pulmonary vessels, so that their lumen was practically occluded. Some of the vessels looked like they were being recanalized and some looked almost like glomeruli. The endothelial proliferation in places extended out into the adjacent septa of the lung. This was found in only two rats, who apparently inhaled the alarmine while licking their wounds. (Fig. 5). The spleen was practically devoid of lymphoid tissue and nearly double in size. The pulp contained many macrophages with numerous foam cell types and there were some granulocytes but practically no lymphocytes. A few germinal centers were intact. The heart showed areas of fibrinoid degeneration and typical Aschoff bodies with Anitschkow's cells. In other vessels, the walls of the capillaries were disintegrating, and the liberated endothelial cells accumulated about arterioles to form typical Aschoff bodies. The adjacent myofibrils were necrotic and hyalinized. These changes were not as widespread as in the rats on higher dosage.

The knee joints on microscopic examination showed rheumatoid arthritis with the formation of rheumatoid nodules in the synovial membrane. (Fig. 6). The bone marrow was not remarkable. The brains and kidneys were normal in appearance. In the region of the kidneys and pancreas small to medium-sized vessels showed thrombocytosis or marked endothelial proliferation similar to that found in the lungs. (Fig. 7).

The skin showed epidermal hyperplasia in the painted areas. In the subcutaneous tissue of these rats there was marked edema simulating a stage in scleroderma, except that the location was not in the derma and was unaccompanied by atrophy of the hair follicles. In the voluntary muscles beneath the painted areas there were also collections of plasma cells and lymphocytes and damage to blood vessels simulating the lesions of dermatomyositis. (Fig. 9).

In the liver there were increased numbers of cells with acidophilic

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cytoplasm and binucleated forms. Some of the vessels showed endothelial proliferation as in the lungs. There seemed to be acidophilic inclusions resembling Councilman's bodies. Some of the liver cells were vacuolated; others showed hyalin droplet degeneration, and the nuclei were of varying size and density. (Fig. 10). The control rats showed no significant changes.

Effect of Alarmins on the Cement and Ground Substances. The primary effect of alarmins is to produce hydration of the mucopolysaccharide structure of basement membranes and ground substance in mesenchymal tissues. The most sensitive tissue component is the cement substance in the endothelial wall of capillaries; perhaps because this is the site of the initial contact in the tissue. The earliest change is softening which allows the capillary wall to stretch and form aneurysmal dilatations. (Fig. 11). In the basement membrane behind the endothelium in precapillary arteries and in arterioles, this hydration can be seen histologically as a chain of small bubbles, which we have termed beading. (Fig. 12). In the next stage the capillary wall disintegrates and the viable endothelial cells and intact erythrocytes spill into the tissue spaces. (Fig. 13). In the heart the liberated endothelial cells from the coronary capillaries migrate toward damaged arterioles and form perivascular Aschoff bodies. In subsequent stages there is more widespread damage to the connective tissue components. This results in fusion of erythrocytes, condensation of ground substance to form fibrinoid degeneration and liquefaction of other portions of the ground substance probably due to its infiltration by plasma leaking from the ruptured capillaries, and shredding of the collagen fibers with subsequent necrosis of these structures and adjacent muscle cells. Depolymerization and hydrolysis affects the nonviable cement and

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ground substance and fibers of vessels and connective tissue. Alarmino decomposes these nonviable components of stromal tissue, which are technically known as mucopolysaccharides and scleroproteins. This target tissue is the identical structure damaged by vitamin C deficiency and by hyaluronidase, and it is the same structure which is strengthened and rendered more resistant to this effect by cortisone. Alarmino is, therefore, an antagonist of vitamin C and cortisone and the artificial tanning substances, such as the quinolines.

If we analyze this pathologic series of responses into its major components, we find that intense injury by alarmino is an exaggeration of the pathologic process found in the simple healing of wounds, which has been termed organization. Here the injured tissue releases minimal amounts of alarmino which produces matrix hydrolysis and capillary aneurysmal dilatation of the capillaries due to the flaccid state of their walls. Because of the chemotaxis of the capillary endothelium for the hydrated matrix in the injured area, so-called capillary sprouts are dragged into the wound. The histologic picture that results is known as granulation tissue.

The primary effect of alarmino in producing the changes of rheumatoid carditis, rheumatoid arthritis and polyarteritis is on the basement membrane of blood vessels and not primarily on the collagen fibers of connective tissue. According to the latest chemical studies of collagen, the fibrinoid degeneration where it occurs in connective tissue does not involve the collagen bundles of well-formed connective tissue fibers. In order to emphasize the exact sequence of events it is important to review the histological and biochemical composition of connective tissue.

Robb-Smith<sup>2</sup> has defined connective tissue as a continuous matrix varying in consistency from the limpness of Wharton's jelly of the umbilical cord to the hardness of bone in which lies an interlacing fabric of fibers of different and is bathing isolated or closely set cells. This continuous matrix pervades the spaces between organs and major

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vessels and supplies the capsule for these major structures, as well as their supporting stroma. This definition does not emphasize the most important cells, the fibroblasts, which show various stages of development from the reticulum cells to the adult fibrocytes and also a parallel line of development (usually under pathologic conditions) from reticulum cells to histiocytes. The definition also does not emphasize an additional specialized component of connective tissue, the basement membrane. The matrix of connective tissue contains a variety of mucopolysaccharides, such as hyaluronic acid and chondroitin sulfate in combination with proteins. In this matrix are embedded fibers of collagen, reticulin and elastica, which are defined as precipitated scleroproteins. The elastica does not concern us here, but the reticulin and collagen fibers do. The collagen fibers are polymerized polypeptides, which are oriented in linear fashion and contain a small amount of mucopolysaccharide. The reticulin fibers are really nonoriented scleroproteins with more abundant mucopolysaccharide. They may be termed precollagenous fibrils with a less differentiated structure. The important point is that both are precipitated <sup>or</sup> formed from the matrix. The third noncellular structure, besides fibers and ground substance, is the basement membrane, which is formed from reticulin fibers and condensed matrix, which stains more intensively for mucopolysaccharides than the ground substance. This condensed matrix at the basement membrane is usually termed cementin and also forms a binding substance between the endothelial cells in the capillary wall.

Histogenesis of the Aschoff Body

In pathologic response, depolymerization of the reticulin fibers and the condensed ground substance, both of which form the basement membrane of small vessels, permits hydration of the matrix, which is hydrophilic and retains water and absorbs electrolytes. At the same time the cement substance of the capillary wall is similarly affected. The initial stage, therefore, in the

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 SCIENCE RESEARCH METHODS (MAY)



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rheumatoid and collagen diseases that we are discussing is a depolymerization of cementin with leakage and hydration of the ground substance with secondary loss of collagen fibrils. In response to the hydration of the ground substance, the connective tissue cells proliferate and contribute to the Aschoff bodies (which at first contain only liberated endothelial cells from destroyed capillaries) and form rheumatoid nodules, which are so characteristic of the rheumatoid state. Since the basement membrane is the primarily affected structure and this is composed of condensed ground substance and reticulin fibers and not of the more highly differentiated collagen fibers, the term collagen disease does not describe the primary process. The fibrinoid degeneration observed is a coagulum of the ground substance and cement substance. The endothelial aggregates, which previously have been neglected, are provided by separation of the endothelial cells from altered or dissolved capillaries. Endothelial proliferation and fibrocytic proliferation both contribute to the formation of the Aschoff body and are both secondary to the freeing of these fixed cells which come to lie free in a fluid matrix, which is mostly blood plasma and partly hydrated cement substance and matrix.

#### Role of Adrenal in the General Adaptation Syndrome

There is good reason to believe that the general adaptation syndrome of Selye<sup>3</sup>, in which the adrenal cortex plays the dominant role, serves as a co-defensive mechanism both in local tissue damage and in the immunological responses of the reticuloendothelial system. Sayers<sup>4</sup> believes that products of tissue damage following severe injury combine with cortical hormones in the peripheral tissues, and with the resultant fall in their concentration in the venous blood, this normal check on the adenohypophysis is released and the pituitary responds by increased secretion of ACTH. This resultant increase in the output of ACTH depletes the adrenal cortex of its hormones and stimulates additional hormone production.

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If the period of stress is prolonged or continued, stimulation produces cortical hyperplasia and enlargement of the adrenals. This cortical hyperfunction results in alteration of carbohydrates, protein and fat metabolism. There is also an elevation of sodium electrolytes in the serum, which increases the resistance of the animal by expanding the metabolic pool and the volume of tissue fluids. At the same time, there is increased excretion of such toxic products as potassium, histamines and uric acid. Simultaneously, the immune mechanisms are reinforced by destruction of lymphocytes resulting in lymphocytopenia, eosinopenia and leucocytosis. Since lymphocytes store immune globulins, their disintegration leads to a rapid rise in antibody titer.

If exposure to stress continues, the adaptation syndrome fails and is followed by exhaustion. Selye believed that the excessive drain on the anterior pituitary and adrenal cortical hormones incident to protracted or repeated trauma may result in cardiovascular renal and joint disease, and he lists such entities as nephrosclerosis, polyarteritis, carditis and arthritis as adaptation diseases. However, the consensus of present day opinion holds that these are forms of diffuse collagen disease resulting from hyperimmunity. Talbott and Ferrandis<sup>5</sup> believe that the etiology of these conditions is still unknown and that no investigation has successfully reproduced them in animals except for polyarteritis in rabbits and the occurrence of disseminated lupus erythematosus in humans following the administration of the antihypertensive drug, hydralazine (Apressaline).

In the authors' opinion, it is now possible to demonstrate that similar irritating amines are released in tissue damage, where they have been customarily referred to as "H" substances, and in the union of antigen and antibody, where they have been termed "union substances." These irritating

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amines, which we have termed alarmins, neutralize adrenal cortical hormones in the tissues and thus release ACTH and stimulate the general adaptation syndrome. They are in turn neutralized by increased excretion of adrenal cortical hormones if bodily resistance is adequate (the resistance phase of Selye).

However, if tissue damage is overwhelming the body passes rapidly through the phases of alarm and resistance to exhaustion. Such acute exhaustion is synonymous with irreversible shock or peripheral vascular failure (so-called forward cardiac failure). If overwhelming acute stress involves the immune mechanism, the high concentration of unneutralized alarmins provokes the Arthus's phenomenon with its characteristic vascular thrombosis and resultant tissue necrosis. If stress is widely prolonged by repeated exposure to infections or similar antigens, the continued and increasing release of unneutralized alarmins exhausts the adrenals or exceeds their protective capacity (even in the presence of cortical hypertrophy), and collagen disease results.

#### The Stress Aspects of Alarmins

In the experiments reported above the adrenal cortical enlargement observed may be considered an indirect effect of alarmins, which neutralizes cortisone in the tissues and thus stimulates the adenohypophysis, which releases ACTH to bring about the cortical hyperplasia. Another interpretation, however, is possible. The alarmins may act directly on the adrenal medulla, which in turn releases adrenalin to stimulate the adenohypophysis to secrete increased ACTH. This second interpretation is suggested by the degenerative changes in the adrenal medulla, which were observed in a further group of experiments described below. Whether either or both mechanisms apply, the fact remains the adrenals undergo enlargement in some animals to four times their normal weight). The changes in the lymphoid tissue, particularly enlarged in the spleen, are the result of the adrenal cortical hyperplasia. The alarmins in any event initiate the adaptation syndrome.

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In order to demonstrate the relationship of alarmino to cortisone and to the stress phenomenon, which Selye has termed the general adaptation syndrome, a third group of experiments was performed. The rats used were males of the Wistar strain, weighing 100 Gm. each, and were injected intramuscularly six days weekly for 25 days and then sacrificed. The tissues of all major organs were examined.

Group I consisted of six control rats, receiving 1/2 cc. of normal saline. No significant changes were observed in this group. One animal had murine pneumonitis, and one had some increase in the connective tissue cells between the myocardial fibers.

Group II consisted of 6 rats, receiving 0.1 cc. each of spirits of turpentine. These rats were sacrificed on the ninth day. They showed mild perivascular edema and separation of connective tissue fibers about small vessels, but none of the striking changes observed with alarmino. There was no adrenal hypertrophy.

Group III consisted of 6 rats, receiving 1 mg. daily of an amine compound in which methyl piperazine was linked with propanol to dimethyl piperazine. No significant changes were observed in these rats, when sacrificed on the 26th day.

Group IV consisted of 6 rats, receiving 2.5 mg. daily of an amine compound, in which methyl piperidine was linked with another molecule of piperidine by propanol. No significant changes were observed in these rats when sacrificed on the 26th day.

Group V consisted of 6 rats, receiving 0.1 mg. daily of alarmino. These rats were sacrificed on the 26th day. They showed changes in the lungs, heart, joints, spleen and adrenals similar to those reported above in the rats painted with 0.5 per cent solution of alarmino in sesame oil.

Group VI consisted of 6 rats, receiving 0.1 mg. of alarmino daily, plus 2.5 mg. daily of procaine HCl. These rats were sacrificed on the 26th day.

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They showed changes similar to those in Group V, but the changes were slightly more pronounced. The reason for this, in our opinion, is that the procaine inhibited pain and irritation from the alaraine in the local tissues, and thus did not provoke such a pronounced cortical response in the adrenals. In other words, there was less stress phenomenon provoked in the adrenal.

Group VII consisted of 6 rats, receiving 0.1 mg. of alaraine daily, plus 1 mg. daily of cortisone. These rats were sacrificed on the 26th day. No significant change was observed in any organ. The cortisone had completely inhibited the response to alaraine.

Conclusion

It may be concluded from the above experiments and observations that a diamino benzene derivative, which we have termed alaraine, is a relatively specific irritant amine, which is capable of hydrolyzing the cement and ground substances of connective tissue and of producing the so-called collagen diseases. At the same time it provokes the general adaptation syndrome, but if given in sufficient amounts or concentration it is capable of overriding the protective response of the general adaptation syndrome, which it provokes. This irritant amine can be neutralized in its pathologic effects by the simultaneous administration of sufficient amounts of cortisone.

The collagen diseases which we believe to be reproducible with this substance are: rheumatic carditis, rheumatoid arthritis, scleroderma and dermatomyositis, and polyarteritis. In the experiments recorded above glomerulonephritis and membranous glomerulitis with wire-looping in the capillary loops of the nephron characteristic of disseminated lupus erythematosus were not observed. Since this is undoubtedly a collagen disease, an attempt to produce such changes was made in a final group of experiments. Six Wistar male rats, weighing 60 to 80 Gm., were painted daily with a 2 per cent solution of alaraine to a shaved area of the thigh 2 x 3 cm. The smaller rats were chosen in preference to raising the

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alarmine dosage. These rats died after three days and complete autopsies were performed. They showed changes in the heart and joints characteristic of early rheumatic carditis and rheumatoid arthritis, as previously described. In addition, all of the rats showed membranous glomerulonephritis, with wire-loops characteristic of disseminated lupus erythematosus. There were also vascular lesions in the brain, such as are seen in collagen diseases, and small focal accumulations of gutter cells, resembling typhus nodules, a reaction to vascular damage. The type of collagen disease observed, therefore, is dependent upon the concentration of alarmine released in the tissues.

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~~SENSITIVE INTELLIGENCE~~  
~~SOURCE AND METHODS INVOLVED~~

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- 3. Selye, Hans: Stress, Acta., Inc., Med. Publishers, Montreal, Canada, 1950.
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~~SENSITIVE INTELLIGENCE~~  
~~AND METHODS INVOLVED~~

- 45-113
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- Figure 1. Formula of Alarmin
  - Figure 2. Change in Vessels in Lung
  - Figure 3. Aschoff Bodies in Heart
  - Figure 4. Changes in Adrenal
  - Figure 5. Changes in Spleen
  - Figure 6. Rheumatoid Arthritis of Knee Joint
  - Figure 7. Thrombocytosis of Artery in Renal Fat
  - Figure 8. Subcutaneous Scleroderma
  - Figure 9. Dermatomyositis
  - Figure 10. Liver Changes
  - Figure 11. Capillary Aneurysms
  - Figure 12. Beading of the Basement Membrane
  - Figure 13. Capillary Dissolution with Liberation of Endothelial Cells

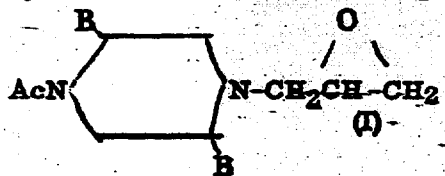
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SOURCES AND METHODS INVOLVED

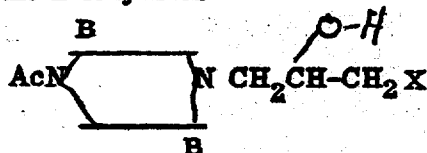


1. Code: Ac. 7. 2

This synthetic work relates to compounds of the structure

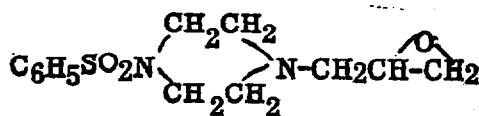
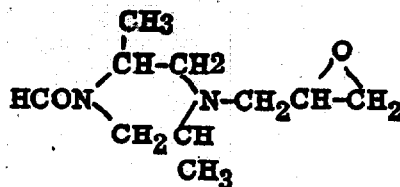
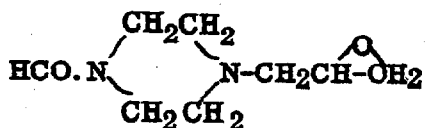


and the halohydrins



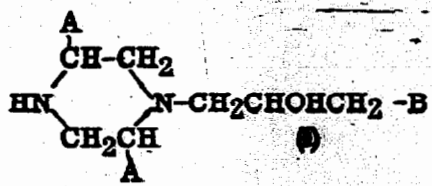
which may be used in the synthesis of I, where AC is a member of the group made up of acyl, aryl sulfonyl and alkyl sulfonyl, and B is a member chosen from the group made up of H and CH<sub>3</sub> and X is a member of the group made up of chloride, bromide and iodine.

Typical compounds to be included:

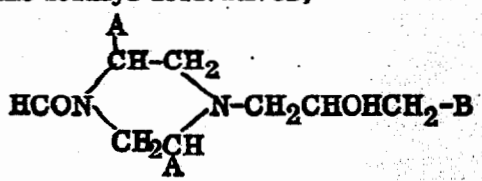


2. Code: AX7 CXU

This synthetic work relates to compounds of the structure



their acid addition salts and quaternary ammonium salts, and the formyl derivatives,



which may be used in the synthesis of I

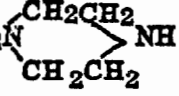
where A is a member chosen from the group made up of H and CH<sub>3</sub> and B is a monovalent amino radical which is a member taken from the group made up of the following:

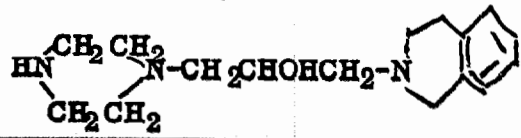
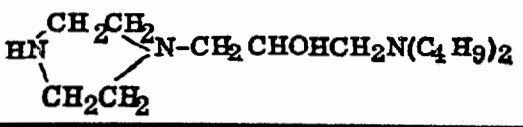
- (1) a radical of the structure RNH- where R is an alkyl radical from 1 to 4 carbons
- (2) a radical of the structure  $\begin{array}{c} \text{R}' \\ | \\ -\text{N} \\ | \\ \text{R}'' \end{array}$

where R' and R'' are alkyl radicals, the total carbon content of which is between 2 and 8

(3) a heterocyclic radical which is a member of the group made up of pyrrolidino, piperidino and morpholino

- (4) 1-(1, 2, 3, 4-tetrahydroquinolino), 1-(decahydroquinolino), 1-(6-methoxy-1, 2, 3, 4-tetrahydroquinolino) and 2-(1, 2, 3, 4-tetrahydroisoquinolino).

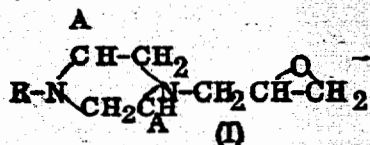
Typical compounds: CH<sub>3</sub>NHCH<sub>2</sub>CHOHCH<sub>2</sub>N 



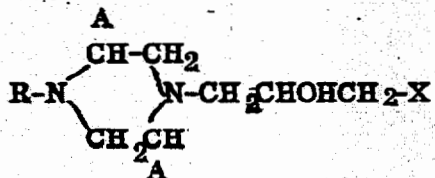
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SOURCES AND METHODS INVOLVED

3. Code: R.7   2  

This synthetic work relates to compounds of the structure



and the halohydrins



which may be used in the synthesis of I

where R is a member chosen from the group made up of an alkyl

radical of from 1 to 6 carbons, benzyl and benzhydryl, and

A is a member chosen from the group made up of H and CH<sub>3</sub> and

X is a member chosen from the group made up of chloride, bromide and iodide.

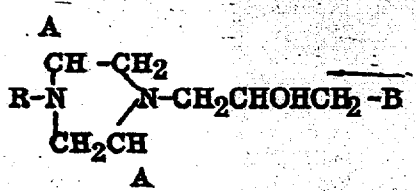
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4. Code: R. 7xC R. 7xA

This synthetic work relates to compounds of the structure



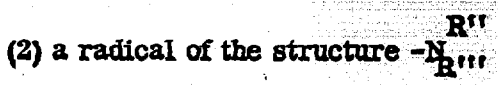
their acid addition salts and quaternary ammonium salts,

where R is a member taken from the group made up of alkyl radicals of from 1 to 6 carbons, benzyl and benzhydryl,

where A is a member chosen from the group made up of H and CH<sub>3</sub>

and B is monovalent amino radical which is a member taken from the group made up of the following:

(1) a radical of the structure R'NH where R' is a member chosen from the group made up of H and an alkyl radical of from 1 to 4 carbons

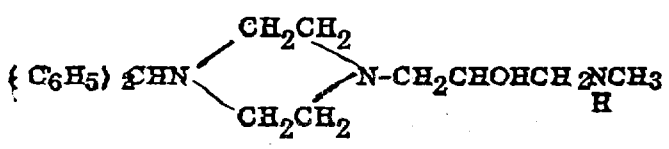
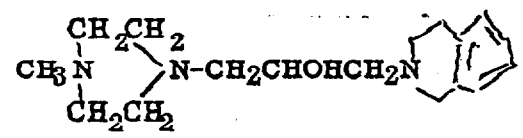


where R'' and R''' are alkyl radicals, the total carbon content of which is between 2 and 8 inclusive

(3) a heterocyclic radical which is a member of the group made up of pyrrolidino, piperidino and morpholino

(4) 1-(1, 2, 3, 4-tetrahydroquinolino), 1-(decahydroquinolino), 1-(6-methoxy-1, 2, 3, 4-tetrahydroquinolino) and 2-(1, 2, 3, 4-tetrahydroisoquinolino).

Typical examples:



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~~SENSITIVE INFORMATION~~  
~~SOURCES AND METHODS INFORMATION~~

PROPOSED BUDGET

1957 - 1958

Analysis of Body Fluids in Toxic States

Biochemists (2)	\$16,000.00	
Technicians, Laboratory (2)	6,000.00	
Special Equipment	10,000.00	
Supplies	7,000.00	
Clinical Assistant	<u>6,000.00</u>	\$ 45,000.00

Chemical Synthesis

C [REDACTED] Consultant	1,500.00	
C [REDACTED] B	4,500.00	
B [REDACTED] (chemical syntheses)	<u>20,000.00</u>	26,000.00

Toxicology and Pharmacology

Animal caretaker and animals	12,000.00	
Pharmacologist and technician	12,000.00	
C [REDACTED] Toxicology	<u>5,000.00</u>	<u>29,000.00</u>

TOTAL \$ 100,000.00

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~~PREVIOUS INTELLIGENCE~~  
~~SOURCES AND METHODS INVOLVED~~



45-115

10 September 1956

**MEMORANDUM FOR: CHIEF, FINANCE DIVISION**

**VIA:** TSS/Budget Officer

**SUBJECT:** MKULTRA Subproject 43  
Invoice No. 6, Allotment 6-2502-10-001

1. Invoice No. 6 for the above subproject is attached. Payment should be made as follows:

(E)

Cashier's check in the amount of \$34,000.00, drawn on a [redacted] bank.

(B)

The check should be made payable to the [redacted]

(B)

2. Please forward the check to Chief, TSS/Chemical Division through TSS/Budget Officer by Friday, 5 October 1956.

3. This is a final invoice. A total of \$133,000.00 was obligated under this subproject during FY 56. However since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

(E)

CHECK # 10710 IN THE AMOUNT OF \$34,000 RECEIVED 26<sup>th</sup> 1956

(A)

**SIDNEY GOTTLIEB**  
Chief  
TSS/Chemical Division

Attachments:  
Invoice & Certifications

Distribution:  
Orig & 2 - Addressee  
1 - Comptroller  
1 - TSS/FASB  
1 - 2 TSS/CD

I CERTIFY THAT FUNDS ARE AVAILABLE:  
OBLIGATION REFERENCE NO. 1423  
CHARGE TO ALLOTMENT NO. 6-2502-10-001

AUTHORIZING OFFICER [redacted]

12 1956

(A)

TSS/CD: [redacted] (10 September 1956)

(A)

SEP 13 6 58 AM '56

(A)

45-115

[REDACTED]

**INVOICE**

**For services**

**\$34,000.00**

[REDACTED]

-----

**CERTIFICATIONS**

(1) It is hereby certified that this is Invoice No. 6 applying to Subproject 45 of MKULTRA, that performance is satisfactory, that the services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

\_\_\_\_\_  
Chief, TSS/Chemical Division

Date:

(2) It is hereby certified that this invoice applies to Subproject 45 of MKULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

\_\_\_\_\_  
Research Director

Date:

[REDACTED]



45-116

FILE SUB PROJECT  
45?

RECEIPT

I hereby acknowledge receipt of [REDACTED]  
Official Check # MN240957 in the amount of \$33,000.00,  
payable to the [REDACTED]

(E)

(B)

[REDACTED]

(C)

Date 6 June 1956



5 June 1956

**MEMORANDUM FOR: THE COMPTROLLER**  
**ATTENTION : Finance Division**  
**SUBJECT : MILTRA, Subproject 45, Additional Authorization No. 8**

Under the authority granted in the Memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda, Subproject 45 was previously approved. Under the same authority an additional sum of \$3,760.00 has been authorized to cover the subproject's expenses and should be charged to Allotment 9-2502-75-902.

**[Redacted Signature]**  
 Chief  
 TSS/Chemical Division

**APPROVED FOR OBLIGATION OF FUNDS:**

**[Redacted Signature]**  
 Research Director

I CERTIFY THAT FUNDS ARE AVAILABLE;  
 OBLIGATION REFERENCE No. 3660  
 CHARGE TO ALLOTMENT No. 9-2502-75-902  
 AUTHORIZING OFFICER

Date: 6 JUN 1956

- Distributions:**  
 Orig & 2 - Addressee  
 1 - TSS/OC  
 1 - TSS/FASB  
 2 - TSS/CD

**[Redacted Signature]**

45-14

11 June 1959

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

SUBJECT : MKULTRA, Subproject 45, Invoice No. 14  
Allotment 9-2502-75-902

1. Invoice No. 14 covering the above subproject is attached.  
Payment should be made as follows:

(E) Cashier's check in the amount of \$35,750.00,  
drawn on a [redacted] Bank.

(B) The check should be made payable to the [redacted]

2. Please forward the check to Chief, TSS/Chemical Division,  
through TSS Budget Officer, no later than 22 June 1959. Other  
invoices will follow.

(A)

[redacted]

Chief  
TSS/Chemical Division

Attachments:  
Invoice & Certifications

Distribution:  
Orig & 2 - Addressee  
1 - TSS/FASB  
2 - TSS/CD

(A) TSS/CD [redacted] (11 June 59)

I CERTIFY THAT FUNDS ARE AVAILABLE;  
ORIGINATION REFERENCE No. 1713  
CHARGE TO ALLOTMENT No. 9-2502-75-902

\_\_\_\_\_  
AUTHORIZING OFFICER

[redacted]

45-119

~~SECRET~~  
**INVOICE**

**For services**

**\$35,750.00**  
~~\_\_\_\_\_~~  
~~\_\_\_\_\_~~

-----  
**CERTIFICATIONS**

(1) It is hereby certified that this is Invoice No. 14 applying to Subproject 45 of MKULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipt is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

C/TSS/Chemical Division

**Date:**

(2) It is hereby certified that this invoice applies to Subproject 45 of MKULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Original signed by  
~~\_\_\_\_\_~~

Research Director

**Date: 11 JUN 1959**

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

45-120

FILE 45

RECEIPT

I hereby acknowledge receipt of the following check:

Official Check, dated March 1, 1956, in the amount of \$33,000.00,  
E drawn on ~~Bank of America~~, payable to the  
B. ~~Bank of America~~. The check number is  
NN 22879L.

~~Bank of America~~ A

Date: 1 March 1956

for forwarding

45-121

23 May 1956

**MEMORANDUM FOR: CHIEF, FINANCE DIVISION**

**VIA: TSS/Budget Officer**

**SUBJECT: MKULTRA Subproject 45, Invoice No. 5  
Allotment 6-2502-10-001**

1. Invoice No. 5 for MKULTRA Subproject 45 is attached. Other invoices will follow later. It is requested that payment be made by cashier's check in the amount of \$33,000.00. The check should be drawn on [redacted] bank and made payable to the [redacted].

(E)  
(B)

2. Please forward the check to Chief, TSS/Chemical Division through TSS/Budget Officer by 7 June 1956.

(A)

[redacted]  
Acting Chief  
TSS/Chemical Division

**Attachments:  
Invoice & Certifications**

**Distribution:  
Orig & 2 - Addressee  
1 - Comptroller**

I CERTIFY THAT FUNDS ARE AVAILABLE  
OBLIGATION REFERENCE No. 433  
CHARGE TO ALLOTMENT No. 6-2502-10-001

AUTHORIZING OFFICER

✓ 1 - TSS/FASB [redacted]  
2 - TSS/CD

(E)

CHECK # 240957 IN THE AMOUNT OF \$33,000.00  
RECEIVED 5 JUN 1956

TSS/CD: [redacted] (22 May 1956)

(A)

(A)

DUPLICATE

22 MAY 26 5 02 PM '56

RECEIVED

~~SECRET~~  
**INVOICE**

For services

\$33,000.00

(B) ~~SECRET~~  
-----  
**CERTIFICATIONS**

(1) It is hereby certified that this is Invoice No. 5 applying to Subproject 45 of MKULTRA, that performance is satisfactory, that the services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Acting Chief, TSS/Chemical Division

Date:

(2) It is hereby certified that this invoice applies to Subproject 45 of MKULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Date:

~~SECRET~~



45-122

21 February 1956

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA: TBS/Budget Officer

SUBJECT: MATHEIA Subproject 45, Invoice #  
Allotment 6-2502-10-001

- 1. Invoice #4 for MATHEIA Subproject 45 is attached. Other invoices will follow later. It is requested that payment be made by cashier's check in the amount of \$33,000.00. The check should be drawn on a [redacted] bank and made payable to the [redacted].
- 2. Please forward the check to Chief, TBS/Chemical Division through TBS/Budget Officer by 5 March 1956.

(A) Deputy-Chief  
TBS/Chemical Division

Attachments:  
Invoices & Certifications

CHECK# 228791 IN THE AMOUNT OF \$33,000  
RECEIVED 6 MAR 1956

Distribution:  
Orig & 2 - Addresses  
1 - Comptroller

(A) 1956/CD/ [redacted] 6-2502-10-001-17.9-423000.00  
33,000.00  
W Cook

FINANCE DIVISION

CERTIFIED FOR PAYMENT OR CREDIT

(A) [redacted] OFFICER  
AUTHORISED SIGNATURE  
RECEIVED  
ORGANIZATION REFERENCE NO. 6-2502-10-001

~~SECRET~~

INVOICE

21 Feb 56

For services

\$33,000.00

(B)

CERTIFICATIONS

(1) It is hereby certified that this is Invoice 4 applying to Subproject 45 of MKULTRA, that performance is satisfactory, that the services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TBS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Date:

Chief, TBS/Chemical Division

(2) It is hereby certified that this invoice applies to Subproject 45 of MKULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Date:

Research Director

MEMORANDUM OF AGREEMENT

B The purpose of this memorandum is to set forth the mutual administrative responsibilities of the [redacted] hereafter known as the [redacted] the principal investigator, and the sponsor. Therefore, it is mutually agreed that,

B A. the principal investigator shall submit for the sponsor's inspection the [redacted] annual audit report, certified by a CPA.

B. The bank statements and cancelled checks of the special account, maintained for third party disbursements, shall be submitted for inspection upon the sponsor's request.

B C. It is understood that any travel expenses incurred in the furtherance of the research program will be accounted to the [redacted] in a manner consistent with its established practices and policies.

D. Upon the request of TSS/CD, the principal investigator shall submit to the sponsor reports of technical progress in the research covered by these funds.

C [redacted]

Date: 2/1/56

Downgraded to: ~~CONFIDENTIAL~~

by authority of: 187475

date: June 1957

E2 IMPDET; CL BY 187475

45-124

(A) DRAFT: ~~CONFIDENTIAL~~  
30 January 1956

MEMORANDUM FOR: THE RECORD

SUBJECT: Project MKULTRA, Subproject 45

(B) 1. The scope of this project is intended to encompass all those \* activities now engaged in by the ~~██████████~~ under the direction of TSS/CD. These activities take the form of three lines of biochemical investigation, namely, the Curare-like effect of certain thiols, the preparation of hydrogenated quinolines and indole alkaloids and a program of investigation of toxic cerebral states. This last investigation will include bio-assay and chemical analysis of various body fluids of animals in which cerebral toxemias have been produced. It is the aim of this program to endeavor to understand the mechanism of such states as toxic delirium, uremic coma, and cerebral toxicity from poisoning. In order to continue the established "cover" activities of the ~~██████████~~ and to make available a pool of subjects for testing purposes, the ~~██████████~~ and ~~██████████~~ effects of compounds resulting from the above program will be evaluated.

(C) 2. The attached proposal from ~~██████████~~ indicates the extent of the investigations that his facilities will allow him to carry out on the materials developed in the three lines of research referred to in paragraph one, as well as certain other materials of interest to TSS/CD. ~~██████████~~ also serves as a general consultant to this Division and provides cover and cut-out facilities to the Agency.

(C) 3. The total cost of this project for a period of one year will not exceed \$100,000. Charges should be made against Allotment 6-2502-10-001.

(C) (B) 4. ~~██████████~~ has been requested to submit a summary accounting or a copy of the ~~██████████~~ annual audit report be made available for the sponsor's inspection. Also, it has been requested that any unexpended funds shall be returned to the Agency.

(B) (C) 5. Title to any permanent equipment purchased by funds granted ~~██████████~~ shall be retained by the ~~██████████~~ in lieu of higher overhead rates.

\* other than its activities as a cut-out

Downgraded to: ~~CONFIDENTIAL~~

by authority of: 187475

date: June 1957

E2 IMPDET; CL BY 187475

Downgraded to: ~~CONFIDENTIAL~~  
by authority of 187475  
date: June 1977

45-124

E2, UNDELET; CL BY 187475

- 2 -

- (b) 6. It was mutually agreed that documentation and accounting for  
(b) travel expenses which are normally reimbursable by the [redacted]  
(b) shall conform with the accepted practices of the [redacted]
- (b) 7. [redacted] agreed to comply with the requirements of  
the Memorandum of Agreement.

(A)

[redacted]  
TSS/Chemical Division

APPROVED:

*[Signature]*  
Chief, TSS/Chemical Division

APPROVED FOR OBLIGATION  
OF FUNDS:

(A)

[redacted]

Research Director

Date: 2 Feb 1976

Attachment:  
Proposal

Distribution:  
Original Only

Downgraded to: ~~CONFIDENTIAL~~  
by authority of 187475  
date: June 1977

E2, UNDELET; CL BY 187475

~~WARNING NOTICE~~  
~~SENSITIVE INFORMATION~~  
~~SOURCES AND METHODS INVOLVED~~

**RESEARCH PROPOSAL**

(B)

[REDACTED]

February 1956 - 1957

**Part I**

**Bio-assay and Chemical Analysis of Body Fluids in Toxic Cerebral States**

**General Survey of the Problem**

There are a variety of clinical conditions, many of them terminal, in which patients under clinical observation pass from mild disorientation into delirium and coma. These conditions of cerebral intoxication are often associated with the failure of some vital organ other than the brain. The most important forms of such cerebral intoxications are

- 1 - Uremic coma associated with renal failure
- 2 - Hepatic coma associated with liver failure
- 3 - Convulsions and coma of eclampsia associated with the pathology of the placenta and involving also the liver and kidneys
- 4 - Malignant cachexia associated with advanced carcinomatosis
- 5 - Toxic delirium associated with severe bacterial infection, at times with a generalized septicemia or bacteremia
- 6 - Delirium, coma and convulsions resulting from chemical poisoning in which the toxic substance may act directly or indirectly on cerebral tissue.

1 - Uremia. A review of the current texts and contributions to medical journals reveals a remarkable lack of information concerning these forms of cerebral intoxication. Thus, in uremia there is a wide difference of opinion in regard to the identity of the urinary constituents retained in the blood which are responsible for the effects on the central nervous system. Fishberg states that after a hundred years of search for the "uremic principle" its identity still remains a mystery. Homer Smith, in his work on the kidney, stresses the importance of potassium retention. Others have implicated the magnesium ion. Most authors

45-124  
2

on the subject believe that the cerebral effects of uremia are the result of retention of phenolic compounds. A smaller number believe that retained nitrogenous substances such as indican and unidentified products of intermediary protein metabolism are the responsible agents. The only sphere of agreement is the well-established fact that injection of normal urine into laboratory animals in adequate doses will produce coma and death, whereas the urine from patients in uremia is relatively non-toxic, the toxic substances remaining in the bloodstream of the affected individuals. It is interesting to note in the transactions of the Macey Foundation on Renal Function from 1949 to 1953 that a conference has not been devoted to the subject of uremia.

2 - Hepatic Coma. The cerebral effects of hepatic failure consisting of high fever and progressively deepening coma have been stressed by Heyd, and are often known as the Heyd syndrome. The cause of the coma is generally attributed to the retention of ammonia or ammonium carbonate. However, with the introduction of the artificial kidney the removal of ammonia by dialysis, which is readily accomplished, has been shown to have no influence on the comatose condition of the patient. Some investigators have postulated the retention of bile acids as the cause of the coma. There is even less information available on hepatic coma than on uremia.

3 - Eclampsia. Eclampsia remains "a disease of theory". The convulsions and coma that occur in these patients are of unexplained origin. The concensus of opinion to date is that the effects are brought about by spasm of the smaller blood vessels but the cause of the vascular spasm remains undetermined.

4 - Cachexia. The disorientation and coma of patients with cachexia resulting from malignant disease have provoked remarkably little attention in recent years. Willis believes that the cachectic state is an expression of malnutrition with the retention of acetone bodies and is therefore related to diabetic coma. However, there are no adequate studies to substantiate this theory and the treatment of such patients with intravenous glucose and injections of insulin has not been carried out to my knowledge.

CONFIDENTIAL  
SOURCE  
INVOLVED

5 - Toxic Delirium. Before the days of penicillin and the antibiotics, disorientation and delirium were frequent complications of severe infection. It was common in pneumonia and treated by forcing fluids either intravenously or by mouth. However, the toxic effects on the central nervous system of common infectious organisms received no detailed study. In general, the cause of the delirium was related to the severity of the infection.

In summarizing the known facts about uremia, hepatic coma, eclampsia and toxic delirium we can say that the specific cause of the cerebral depression remains unknown in all of them. The only common pathologic effect is the lowering of the cerebral uptake of oxygen. This, however, apparently is a consequence of the suppression of cerebral function rather than a causative factor.

6 - Cerebral Toxicity Associated with Poisoning. The terminal stage of most forms of poisoning is usually described as "Convulsions, coma and death". The localization of the underlying cerebral effects, however, has not been ascertained for the systemic poisons. In an attempt to arrive at a compendium of present day information we have summarized the pathology of various forms of poisoning in the tabulations submitted with this proposal.

Plan of Procedure

Analysis of Body Fluids. We propose to establish a laboratory for the chemical analysis of body fluids in the toxic cerebral states. When patients with toxic cerebral manifestations are under observation in the hospital for uremia, hepatic coma, eclampsia, malignant cachexia, etc., blood serum, cerebrospinal fluid, intraperitoneal fluid and pleural fluid will be obtained and fractionated for possible toxic components such as phenol, bile acids, toxic amines and other components that may be found of interest as the project develops. This analytical laboratory will employ two biochemists. One will be associated with the routine service laboratories at the (B) [redacted] and will supervise the collection and



preservation of these materials and will provide the routine analysis of their constituents which can be determined by known chemical technics such as determination of potassium, sodium and other inorganic constituents, their organic constituents such as bile acids, urea, non-protein nitrogen, CO<sub>2</sub> combining power, etc. The other biochemist will be engaged in specialized chemical analysis, such as electrophoresis, spectrographic analysis, etc. and will try to devise new methods for the determination of toxic amines, phenols, etc.

[REDACTED SECTION]

Bio-Assay of Body Fluids. Another laboratory will be maintained in the animal house for bio-assay on laboratory animals of the toxic constituents isolated in the chemical laboratory.

Animal Experimentation. While the chief interest in the toxic cerebral state centers in patients, it is planned nevertheless, to produce these conditions in laboratory animals and to carry out parallel studies on their body fluids. Both uremia and hepatic coma are readily produced in laboratory animals, such as dogs, rabbits, guinea pigs and rats by the surgical removal of the kidneys or liver, or through selective poisoning of these organs. A highly specific form of chemical damage to the liver can be achieved by injecting carbon tetrachloride into the portal vein and a highly selective form of renal damage can be produced by injecting HgCl<sub>2</sub> into the renal arteries. Laboratory animals also offer the best available means for the analysis of the cerebral effects of neurotoxic chemical compounds.

~~WARNING NOTICE~~  
SENSITIVE INTELLIGENCE  
SOURCES AND METHODS INVOLVED

~~WARNING NOTICE~~

~~SENSITIVE INTELLIGENCE  
SOURCES AND METHODS INVOLVED~~

Part II

Program for the Chemical Synthesis of Neurotoxic Compounds.

It is planned to continue the synthesis of neurotoxic compounds in accordance with the previous leads and accomplishments disclosed by the work carried out during 1954

C and 1955. Four separate laboratories are engaged in this work. [redacted] in cooperation with [redacted] is continuing the synthesis of sulfur-containing organic

C compounds. These thiol compounds beside their curare-like effects also are effective agents in influencing the autonomic nervous system. During the year 1955 the [redacted]

B at [redacted] under the direction of [redacted] has

B cooperated in the pharmacological testing of these compounds. The [redacted] has found that the isothiuroniums exhibit inhibitory effects on both the sympathetic and parasympathetic ganglia and also potentiate epinephrine.

C [redacted] is continuing his work on the diphenolic and monophenolic B compounds at the [redacted]. In recent years the nitrogen group has been introduced by the Mannich reaction on the phenolic ring so that there

C is one carbon between the nitrogen and the ring structure. In 1956 it is proposed to introduce the nitrogen directly on the ring by nitration. Some of [redacted] phenolic compounds produce definite auditory hallucinations and disturbance of taste and oral sensations. These effects are transitory and their duration is dependent on the dose of the drug. These compounds are of great clinical interest because of the scarcity of drugs in this field. The most potent compound in this group are derivatives of 4-chloro-3, 5 dimethyl phenol.

CB [redacted] of the [redacted] has prepared numerous nitrogen derivatives of the hydrogenated quinolines. He also has succeeded in making similar derivatives of hydrogenated indol. These compounds prepared by [redacted] are unique in that they produce pronounced curare action in animals, both by injection

and oral administration without the presence of the methionium group. These compounds (in suitable doses) have been used in a series of over 50 patients by both intramuscular and oral routes. At the low dosage level used they showed specific muscular relaxing effects on selective organs; some of them relax voluntary muscle while others show specific relaxing effect on the musculature of either the urinary tract or the gastrointestinal tract. The voluntary muscle relaxants have been used on patients with paralysis agitans and rheumatoid arthritis. Those which relax the smooth muscle of visceral organs have been used on patients with disturbed bladder function, with multiple sclerosis and prostatic hypertrophy.

(B) [REDACTED]

has continued to cooperate under a written agreement (previously arrived at) in synthesizing

C starting materials for [REDACTED] They have supplied hydrogenated  
 C quinolines for [REDACTED] and nitrated some of the diphenolic compounds in cooperation with

C [REDACTED] It is proposed to continue this cooperation.

45-124

**PROPOSED BUDGET**

1956 - 1957

Analysis of Body Fluids in Toxic States

Biochemists (2)	\$16,000.00	
Technicians, Laboratory (2)	6,000.00	
Special Equipment	10,000.00	
Supplies	8,000.00	
Clinical Assistant	<u>6,000.00</u>	\$46,000.00

Chemical Synthesis

C [REDACTED] Consultant	2,000.00	
C, B [REDACTED]	4,500.00	
C, B [REDACTED]	12,500.00	
C Chemical Supplies [REDACTED]	<u>6,000.00</u>	\$25,000.00

Toxicology and Pharmacology Laboratory

Animal caretaker and animals	12,000.00	
Pharmacologist and technician	12,000.00	
C [REDACTED] Toxicology	<u>5,000.00</u>	<u>\$29,000.00</u>

TOTAL \$100,000.00

**WARNING NOTICE**  
SENSITIVE INTELLIGENCE  
SOURCES AND METHODS INVOLVED

~~CONFIDENTIAL~~

45-125

31 January 1956

**MEMORANDUM FOR: CONTROLLER**  
**ATTENTION: Finance Division**  
**SUBJECT: MULLER, Subproject 45, Additional Authorization No. 4**

Under the authority granted in the memorandum dated 13 April 1953, from the DGI to the ND/A and the extension of this authority in subsequent memoranda, Subproject 45 was previously approved. Under the same authority an additional sum of \$100,000.00 has been authorized to cover the subproject's expenses (thereby bringing to a total of \$133,000.00 funds obligated during FY 56), to be charged to Allotment 6-2502-10-000.

**SIDNEY GOTTLIEB**  
Chief  
TSS/Chemical Division

**APPROVED FOR  
OBLIGATION OF FUNDS:**

\_\_\_\_\_  
Research Director

Mo R 1433

Date:

Distribution:  
Orig & 2 - Addressee

- 1 - TSS/OG
- 1 - TSS/TASB
- 1 - TSS/SBB
- 2 - TSS/CD

(A) TSS/CD: (31 January 1956)

CONFIDENTIAL

RECEIPT

I hereby acknowledge receipt of the following checks:

- (3) [REDACTED] Official Check #M209528 dated 22 Sept 55,  
in the amount of \$33,667.00,
- (3) [REDACTED] Cashier's Check #UNL122 dated 22 Sept 55,  
in the amount of \$10,810.67,
- (3) [REDACTED] Cashier's Check #UNL123, dated 22 Sep 55,  
in the amount of \$432.43,
- (3) all three payable to the [REDACTED]

[REDACTED]

Date: September 23, 1955

#45

45-127

16 September 1955

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

SUBJECT : MULLSPA Subproject 45, Invoice #3  
Allotment 5-2502-10-001 & 6-2502-10-001

1. Invoice #3 is attached covering the above subproject. This is a final invoice. It is requested that payment be made as follows:

(E)  
(B) Cashier's check in the amount of \$33,667.00 drawn on a [redacted] and payable to the [redacted].

2. The check should be forwarded to Chief, TSS/Chemical Division, through TSS/Budget Officer, no later than 30 September 1955.

3. The three invoices covering this subproject aggregate \$100,000.00, and make use of the balance of the FY 55 funds plus the FY 56 funds obligated to date under this subproject. Since it is expected that additional FY 56 funds will be obligated under this subproject, the files on this project should not be closed.

SIDNEY GOTTLIB  
Chief  
TSS/Chemical Division

Attachments:  
Invoice & Certifications

Distribution:  
Orig & 2 - Addressee  
1 - Comptroller  
1 - TSS/FASB  
2 - TSS/CD

I CERTIFY THAT FUNDS ARE AVAILABLE:

OBIGATION REFERENCE NO. 323 4  
5-2502-10-001 667.00  
CHARGE TO ALLOTMENT NO. 6-2502-10-001 33,667.00

(A)  
TSS/CD (13 September 1955)

CHECK #41109598 THE AMOUNT OF \$33,667  
RECEIVED 27 SEP 1955

(A)





45-128

8 August 1955

**MEMORANDUM FOR: CONTROLLER**

**ATTENTION : Finance Division**

**SUBJECT : KILBRA, Subproject 15, Additional Authorization No. 3**

Under the authority granted in the memorandum dated 13 April 1953, from the DCI to the DD/A and the extension of this authority in subsequent memoranda, Subproject 15 was previously approved. Under the same authority an additional sum of \$33,000.00 has been authorized to cover the subproject's expenses (thereby bringing to a total of \$33,000.00 funds obligated during FY 56), to be charged to Allotment 6-2502-10-001.

**APPROVED FOR  
OBLIGATION OF FUNDS:**

**SIDNEY GOTTLES  
Chief  
TSS/Chemical Division**

\_\_\_\_\_  
Research Director

MOR 223

Date:

Distribution:

- Orig & 2 - Addressee
- 1 - TSS/OC
- 1 - TSS/PASB
- 1 - TSS/SBB
- ✓ 2 - TSS/CD

(A) ~~XXXXXXXXXX~~

~~XXXXXXXXXX~~

45-129

SUB. 45

RECEIPT

I hereby acknowledge receipt of the following:

Cashier's Check No. UML3623 in the amount of \$33,000.00, dated July 8, 1955, drawn on the [REDACTED] payable to the [REDACTED]

(E)  
(B)

(B)(C)

Date: 7-19-55

45-130

RECEIPT

I hereby acknowledge receipt of the following:

(A) Cashier's Check No. UM13623 in the amount of \$33,000.00, dated July 8, 1955  
drawn on the [REDACTED] payable to  
(B) the [REDACTED]

(C) [REDACTED]

Date: July 13, 1955

45-131

MEMORANDUM RECEIPT

12 JUL 1955

DATE

TO:

FROM:

SUBJECT:

I hereby acknowledge receipt of the following:

- (E) [REDACTED] check # UM13623
- (B) payable to [REDACTED] in the amount of 33,000.00.  
Invoice # 2 subproject 45

(A)

Please return \_\_\_\_\_ signed copy(ies) of this receipt

SIGNATURE OF RECIPIENT

To \_\_\_\_\_  
FORM NO. 36-68  
MAR 1949

12 JUL 1955  
DATE RECEIVED

~~SECRET~~

45-132

28 June 1955

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

SUBJECT : Project NEULIRA, Subproject 45  
Invoice 2, allotment 5-2502-10-001

1. Invoice 2 for Subproject 45 of Project NEULIRA is attached. Other invoices will follow later. It is requested that payment be made by cashier's check in the amount of \$33,000.00. The check should be drawn on [redacted] bank and made payable to the [redacted].

(S)

(B)

2. Please send the check to Chief, TSS/Chemical Division through TSS/Budget Officer by 11 July 1955.

STUART GOTTlieb  
Chief  
TSS/Chemical Division

Attachments:  
Invoice & Certifications

Distributions:  
Orig & 2 - Addressee  
1 - Comptroller  
1 - TSS/FASB  
2 - TSS/CD

(A)

~~SECRET~~

45-132  
[REDACTED]  
**INVOICE 2**

**28 June 1955**

**For services**

**\$33,000.00**

**CERTIFICATIONS**

(1) It is hereby certified that this is Invoice 2 applying to Subproject 45 of Project **MEULTRA**, that performance is satisfactory, that the services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

**Date:**

\_\_\_\_\_  
**SIDNEY GOTTLIEB**  
**Chief, TSS/CD**

(2) It is hereby certified that this invoice applies to Subproject 45 under Project **MEULTRA** which was duly approved and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

**Date:**

(A) \_\_\_\_\_  
**Research Director**

[REDACTED]

~~SECRET~~

20 May 1955

**MEMORANDUM FOR: THE COMPTROLLER**  
**ATTENTION: Finance Division**  
**SUBJECT: Project MURKIN, Subproject 45**

Under the authority granted in the memorandum dated 13 April 1953 from the PCI to the FBI, and the extension of this authority in subsequent memoranda, an additional \$27,000 of the over-all Project MURKIN funds have been obligated to cover the subject's expenses.

**STUBBINS COVILLIS**  
**Chief, TSS/Quantical Division**  
**APPROVED FOR OBLIGATION**  
**OF FUNDS:**

Research Director

Date:

*Mo 2-251*

**Distribution:**  
**Orig. & 2 - Addressee**  
1 - TSS/OC  
1 - TSS/PASB  
1 - TSS/SRB  
2 - TSS/CD

(A)

~~SECRET~~

45-134

# 45

CERTIFICATE

D.R.G.

I hereby certify receipt of Cashier's Check No. MN191739, in the  
amount of \$33,333.00, drawn on the <sup>(E)</sup> [REDACTED]  
payable to the <sup>(B)</sup> [REDACTED]

(C) [REDACTED]

Date: April 14<sup>th</sup> 1955



45-135

MEMORANDUM RECEIPT

APR 13 1955  
DATE

TO:  
FROM:  
SUBJECT:

Invoice #1  
Subproject #5

I hereby acknowledge receipt of the following:

(E)

[REDACTED]

CHECK # 11732 IN THE AMOUNT OF \$33,333 RECEIVED.

(A)

Please return \_\_\_\_\_ signed copy(ies) of this receipt

[REDACTED]

TO \_\_\_\_\_  
FORM NO. 38-69  
MAR 1949



1 April 1955

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

SUBJECT : Project MULLER, Subproject No. 45  
 Invoice #1, Allotment 5-2502-10-001

Invoice No. 1 for Subproject 45 of Project MULLER is attached. Other invoices will follow later. It is requested that payment be made by cashiers check in the amount of \$33,333.00, payable to the [REDACTED] B

B [REDACTED] The check should be sent to Chief, TSS/CD through TSS/Budget Officer by Wednesday, 6 April 1955.

SIDNEY GOTTLIEB  
 Chief  
 TSS/Chemical Division

Attachments:  
 Invoice & Certifications (E)

Distributions:  
 Orig & 2 - Addressee  
 1 - Comptroller  
 1 - TSS/FASB  
 2 - TSS/CD (A)

CHECK # 19739 IN THE AMOUNT OF \$33,333 RECEIVED APR 13 1955

(A) [REDACTED]  
 BY THAT FUNDS ARE AVAILABLE:

684  
 5-2502-10-001  
 4 APR 1955  
 AUTHORIZING OFFICER [REDACTED]



21 March 1953

**MEMORANDUM FOR: COMPTROLLER**  
**ATTENTION: Finance Division**  
**SUBJECT: Project MULLERA, Subproject 45**

Under the authority granted in the Memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda, Subproject 45 has been approved, and \$40,000.00 of the over-all Project MULLERA funds have been obligated to cover the subproject's expenses and should be charged to Allotment 5-2502-10-001.

**SIMEX GOTTLIEB**  
 Chief  
 TSS, Chemical Division

**APPROVED FOR OBLIGATION OF FUNDS:**

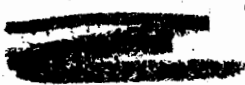
\_\_\_\_\_  
 Research Director

Date: \_\_\_\_\_

- Distribution:**  
 Orig & 2 - Addressee  
 1 - TSS/OC  
 1 - TSS/PASB  
 1 - TSS/SRB  
 ✓ 2 - TSS/CD

*MOR-180*

(A)



45-139

UNCLASSIFIED CONFIDENTIAL SECRET  
(SENDER WILL CIRCLE CLASSIFICATION TOP AND BOTTOM)

CENTRAL INTELLIGENCE AGENCY  
OFFICIAL ROUTING SLIP

TO		INITIALS	DATE
1	TSS/OC	[REDACTED]	11 Aug.
2	TSS/CD		
3			
4			
5			
FROM		INITIALS	DATE
1	TSS/CD	[REDACTED]	7/28
2			
3			

(A)

(A)

- APPROVAL
- ACTION
- COMMENT
- CONCURRENCE
- INFORMATION
- DIRECT REPLY
- PREPARATION OF REPLY
- RECOMMENDATION
- SIGNATURE
- RETURN
- DISPATCH
- FILE

Remarks:

SECRET CONFIDENTIAL UNCLASSIFIED

[REDACTED]

DRAFT:  
21 March 1955

(A)

MEMORANDUM FOR: THE RECORD

SUBJECT : Project MKULTRA, Subproject 45

(B)

1. The scope of this project is intended to encompass all those activities now engaged in by the [REDACTED], in its own facilities under the direction of TSS, Chemical Division. These activities will take the form of three lines of biochemical investigation; namely, the curare-like effect of certain thiols, the preparation of hydrogenated quinolines and indole alkaloids, and the continued study of diphenolic compounds. In addition to the above investigations, the present biological testing and assaying techniques will be elaborated and broadened to include cardiovascular and anticarcinogenic effects of compounds resulting from the above programs.

(B)

2. The attached proposal from [REDACTED] indicates the extent of the investigations that his facilities will allow him to carry out on the materials developed in the three lines of research referred to in paragraph 1, as well as certain other materials of interest to TSS/CD. [REDACTED] also serves as a general consultant to this Division and provides cover and cut-out facilities to the Agency.

(C)

(C)

3. The total cost of this project for a period of one year will not exceed \$100,000.00. At the present time, the sum of \$40,000.00 is being committed, the balance of the total to be committed at a later date.

4. [REDACTED] has been granted a TOP SECRET clearance by the Agency, and is fully capable of protecting the security of the Government's interest in this matter.

APPROVED FOR OBLIGATION OF FUNDS:

[REDACTED]  
TSS, Chemical Division

(A)

APPROVED:

[REDACTED]

(A)

[REDACTED]

(A)

for Research Director

Chief, TSS/Chemical Division

Date: 24 Mar 55

APPROVED FOR ADDITIONAL APPROPRIATION OF \$27,000:

Attachments: Proposal

[REDACTED]

(A)

Research Director

Original Only.

Date: Mar 2 - 1955

APPROVED FOR ADDITIONAL APPROPRIATION OF \$33,000.00:

[REDACTED]

Research Director

(A)

Date:

AUG 10 1955

[REDACTED]

[REDACTED]

RESEARCH PROPOSAL [REDACTED]

1955 - 1956

(B)

Three lines of biochemical investigation are proposed for 1955.

These are being pursued with [REDACTED] as senior consultant, and the

compounds are being prepared, as in 1954, by [REDACTED]

[REDACTED] at the [REDACTED] and [REDACTED]

the [REDACTED]. The chief interest in [REDACTED] work for 1955 will

be in the thiol compounds, some of which have carboxy groups, as well as

amine groups, and some of which have either curare or soporic action.

[REDACTED] will continue his work on the diphenolic compounds.

In this work the nitrogen for the first time will be placed directly on the ring. A

wide variety of biological effects is found in these compounds. The work of

[REDACTED] will center about the hydrogenated quinolines and the indole alkaloids.

Not only will the propanol linkage be used in the synthesis of these new compounds,

but also the methyl propanol linkage and a linkage in which the carboxy group

substitutes for the hydroxyl in the propanol.

Biological testing of these compounds will be more elaborate than previously and the assay technics will be broadened to include work on the tracheal rings of the guinea pig, hyperthermia in rabbits, blood pressure and cardiovascular effects and anticarcinogenic effects.

[REDACTED]



PROPOSED BUDGET FOR CHEMICAL SYNTHESIS  
1955 - 1956

(C) [REDACTED] Consultant chemist (fees and travel)	\$ 3,000.00
(C) [REDACTED] (Budget partially supplied through the [REDACTED] as grant)	(B) 12,000.00
(C) [REDACTED] (Budget partially supplied through the [REDACTED])	(B) 15,000.00
Biochemist	10,000.00
Synthetic starting materials [REDACTED]	(B) 12,500.00
Laboratory Supplies	<u>7,500.00</u>
Subtotal	60,000.00
Biological and Pharmacological Testing	
Clinical part-time assistants	8,000.00
Pharmacological, technical	8,000.00
Research Pharmacologist	8,000.00
Animals and animal maintenance	3,000.00
Tissue examinations	3,000.00
Contribution to maintenance of [REDACTED]	(B) 10,000.00
Total	\$ <u>100,000.00</u>

[REDACTED]

INVOICE CHECK LIST

GENERAL Subproject 45

Date of Original Authorization	Period Covered	Time Extended To	Allowment Number	Amount of Obligation
24 March 1955	1 year		5-2502-10-001	\$40,000.00

Additional Authorizations	Period Covered	Time Extended To	Allowment Number	Amount of Obligation
#8 6 June 1959			9-2502-15-902	3,760.00
#9 29 Dec. 1959			0525-1009-9902	71,500.00
#45 31 Mar. 61	1 Apr 61 - 30 Sept 61		1125-1390-9902	20,000.00
#10	5 Oct 61		2125-1390-3902	20,000.00
#12	8 Feb 62		2125-1390-3902	40,000.00

Invoice Number	Date	Amount	Balance
#13	5 Feb 59	\$35,750.00	\$35,750.00
Add. Auth. #8	5 Jun 59	3,760.00	39,510.00
#14	11 Jun 59	35,750.00	3,760.00
#15	21 Aug 59	3,760.00	0
Add. Auth. #9	29 Dec 59	71,500.00	71,500.00
#16	7 Jan 1960	23,833.00	47,667.00
#17	13 Jan 1960	23,833.00	23,834.00
#18	11 Aug 60	23,834.00	
#19	31 Dec 61	20,000.00	20,000.00
INVOICES: 20	30 Oct 61	20,000.00	40,000.00
21		43,760.00	

INVOICE CHECK SHEET

MASTER Subject 45

Date of Original Authorization	Period Covered	Time Extended to	Allotment Number	Amount of Obligation
24 Mar 55	1 year		5-2502-10-001	40,000.00

Additional Authorizations	Period Covered	Time Extended to	Allotment Number	Amount of Obligation
25 May 55			5-2502-10-001	27,000.00
8 Aug 55			6-2502-10-001	33,000.00
31 Jan 56	1 year		6-2502-10-001	100,000.00
19 Jan 57	1 year		7-2502-16-001	100,000.00
21 Jan 58	1 year		8-2502-10-001	65,200.00
27 Jan 59	1 year		9-2502-75-002	71,577.00

Invoice No.	Date	Amount	Balance
1	4/1/55	33,333.00	6,667.00
2	6/23/55	33,000.00	667.00
3	9/16/55	33,667.00	0
4	2/2/56	33,000.00	67,000.00
5	33 May 56	33,000.00	34,000.00
6	10 Sept 56	34,000.00	0
7	25 Jan 57	33,333.34	66,666.66
8	3 May 57	33,333.33	33,333.33
9	17 Oct 57	33,333.33	0
10	28 Jan 58	21,733.33	43,466.67
11	22 Nov 58	21,733.33	21,733.34
12	22 Sept 58	21,733.34	0

110  
33,333.33  
66,666.66  
1/3 21,733.33  
65,200  
5  
3  
24  
18

REMARKS: