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91-1

EXPENSE CHECK LIST

WOMFA Subproject #91

Line of Original Publication	Period Covered	Time Extended To	Allowment Number	Amount of Obligation
15 Jan 59	15 Jan	10 Jan 1960	9-250278-902	\$21,320.00

Line of Original Publication	Period Covered	Time Extended To	Allowment Number	Amount of Obligation
#2 (Suppl. #1)	15 Jan 59 - 15 Jan 60		0525-109-4702	\$20,800.00
#3	1 Feb 60 - 1 Feb 61		0525-109-4702	\$46,800.00
#4	Jan 61 - 30 June 61		1128-1394-3712	24,960.00

Invoice Number	Date	Amount	Balance
Inv 1	26 Jan 59	21,320.00	—
Check #2	16 Sept 59		\$20,800.00
Inv 2	23 Sept 59	20,800.00	—
Check #3	17 Mar 60	46,800.00	46,800.00
Check #4			24,960.00
#11	2 Feb 61	24,960.00	—
Check #5	26 June 61		24,960.00
		24,960.00	—

[REDACTED]
[REDACTED]

This is continuation of MKULTRA
sub-project #91.

1. Purpose of Project:

Advanced animal screening and
preclinical pharmacological
testing.

2. Project Monitor:

[REDACTED]
[REDACTED]
[REDACTED]

A

G

91-3

~~_____~~
Project MQLTRA, Subproject 91

Date Initiated: 15 January 1959

Date Expires: 1 February 1962

Funds-current year: \$48,000

Purpose: To provide an advanced animal screening and pre-clinical pharmacological testing of toxics and drugs affecting human behavior with special reference to drug effects and molecular structure relationships and avoidance of undesirable effects.

Status: A continuing program of ad hoc screening and testing utilizing protocols provided by and closely monitored by TSD.

~~_____~~

91-4

11 June 1964

MEMORANDUM FOR : THE RECORD

SUBJECT : MKULTRA Subprojects 70, 91, 94 and 135

Since the completion of the audit of Project MKULTRA for the period 1 August 1960 through 31 January 1963, accountings have been received from [redacted] in the amount of \$93,677.50. This amount is part of the \$158,117.93 balance to be accounted for by [redacted] grantees at the end of the audit period. B B

Subproject 70 incurred direct costs of \$2,518.34 and \$27,872.16 transferred from Subproject 94, for a total of \$30,390.50. Subproject 94 incurred expenses of \$71,324.87, but transferred \$4,165.71 to Subproject 91 and \$27,872.16 to Subproject 70, leaving a net cost of \$39,287.00. It was decided to divert the funds for Subproject 135 to Subproject 91, therefore these costs were included in the accounting from Subproject 91.

Inasmuch as: 1) all four of the subprojects had the same basic research goal in mind, 2) the great length of time that has elapsed since the grants were made, and 3) the difficulty in getting accountings of any sort from the grantees, it is recommended that we facilitate this matter by accounting for the balances as shown in [redacted] account for these subprojects.

The above has been concurred in by [redacted] and [redacted] of the Audit Staff.

A [redacted] Chief Scientist, TSD

91-4

	SUB 70 520W	SUB 91 500W	SUB 94 510W	SUB 135
GRANT INCOME	30390.50	48000.00	39287.00	24000.00
TRF FM 135 TO 91	-	24000.00	-	-24000.00
TOTAL GRANT INCOME	30390.50	72000.00	39287.00	-
DIRECT COSTS	2518.34	68773.71	71324.87	
COSTS TRF FM 94 TO 91		4165.71	-4165.71	
COSTS TRF FM 94 TO 70	27872.16		27872.16	
NET COSTS	30390.50	72939.42	39287.00	
BAL TO ACCT FOR	-0-	-0-	-0-	-0-

91-4

Per conversation w/

A

A

28 MAY 1964

O.K. to turn in acctgs on Sub-Projects 70, 94 and 135 as done. Inasmuch as it is so long after the fact, and the difficulty in getting acctgs of any sort, we can use the acctgs as rec'd. Cross-reference the switching among the projects. ^B Anyway, ^A ~~_____~~ was involved in all three. ~~_____~~ + ~~_____~~ of Audit Staff are aware of these problems & concerns. If possible have someone in authority sign memo for record explaining reasons for doing such.

Conversation w/ ^A [REDACTED] 24 MAR 1954

^C [REDACTED] retains all the books & records of defunct ^B [REDACTED]. He has submitted preliminary acctgs for sub 70-4, 98-5, 98-6. Once he is able to thoroly analyze all the books & records he will turn in complete, finalized accountings for these projects. These three projects all had the same goal, which was the drug. That's why they felt justified in shifting the money around. ^A [REDACTED] feels it probably would have been better if only one, rather than four ^(all) projects was written & authorized. ^A [REDACTED] & ^C ^A [REDACTED], Audit Staff, are dealing directly w/ ^C [REDACTED] & are aware of our problems in getting satisfactory acctgs for these projects. Audit feels ^C [REDACTED] is "good" for these acctgs which they are also waiting for. Therefore, with the above knowledge, will hold these "prelim" acctgs, until ^C [REDACTED] has prepared the "finals," which should be ready in the very near future.

A [REDACTED]

Pharmacological Screening and Testing
December 1, 1961 to July 31, 1962

<u>Grants</u>		
February 1, 1961 to January 31, 1962	\$48,000.00	
Less, previously reported	<u>40,000.00</u>	\$8,000.00
February 1, 1962 to July 31, 1962		<u>24,000.00</u>
<u>Total</u>		<u>\$32,000.00</u>

<u>Accounted for, as follows:</u>		
Salaries		\$28,131.14
Payroll Taxes		1,400.08
Employee Benefits		355.68
Laboratory Supplies and Expense		3,541.48
Travel		569.61
Other Direct Costs		2,569.17
Indirect Costs		<u>36,372.26</u>
<u>Total Costs</u>		72,939.42
Less, Previously reported		39,894.36
<u>Total Accounted For</u>		<u>\$33,045.06</u>

I certify that services or materials have been satisfactorily received and the expenditures were incurred on official business.

A [Redacted Signature]

Date: 5/19/64

[Redacted Signature] **B**

[Redacted Title] **C**
President

916 a1
135

PHARMACOLOGICAL SCREENING AND TESTING

February 1, 1961 To November 30, 1961

Grant Income:

February 1, 1961 to January 31, 1962	\$ 48,000.00
Less, Deferred Income	<u>8,000.00</u>
	40,000.00

Costs - February 1, 1961 To November 30, 1961

Salaries	\$ 18,570.83
Payroll Taxes and Insurance	899.48
Employees' Hospitalization and Benefits Ins.	355.68
Laboratory Supplies and Expense	2,532.91
Travel	426.61
Other Costs	<u>2,569.71</u>
	25,354.68

Allocation of G and A Expenses	<u>10,373.97</u>	<u>35,728.65</u>
		4,271.35

Transfer of Costs from Project 510 W (74)	<u>4,165.71</u>
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<u>Excess of Income</u>	<u>\$ 105.64</u>
-------------------------	------------------

[Redacted signature area] B

[Redacted signature area]

Treasurer

C

I certify that copies of materials have been
submitted to the [redacted] and [redacted]
were inspected.

A [Redacted signature]

3/12/64

91-7

[Redacted]

B

[Redacted]

February 20, 1963

[Redacted]

[Redacted]

A

Dear [Redacted] H

B

Enclosed herewith you will find Statement of Accounts from [Redacted] and [Redacted]

[Redacted]

B

B

Very truly yours,

[Redacted]

C

[Redacted] encs. C

91-8

[REDACTED]

Gentlemen:

Herewith is a statement of the funds expended in behalf of the project on pharmacological screening and testing. We trust that it will be adequate for your purposes.

[REDACTED]

~~_____~~ B
~~_____~~ B

PHARMACOLOGICAL SCREENING AND TESTING ~~_____~~ B

February 1, 1961 To January 31, 1962

Grant Income

\$ 48,000.00 ⁹¹
3114 4 34,000
" 5 34,000
16

Costs - Feb. 1, 1961 To Jan. 31, 1962

Salaries	\$ 23,489.27	
Payroll Taxes and Insurance	1,027.36	
Employees' Hospitalization and Benefits Ins.	416.19	
Laboratory Supplies and Expense	3,999.17	
Travel	1,506.12	
Other Costs	3,847.60	
	<u>34,285.71</u>	
Allocation of G and A Expense	13,714.29	48,000.00

C 2
~~_____~~
9/29/65

\$ - -

I have examined and approved the submitted expenditures

A ~~_____~~

TSS/Chemical Division

Date: 2/26/63

91-9

D R A F T
31 May 1962

MEMORANDUM FOR: THE RECORD

SUBJECT: Project MKULTRA, Subproject No. 135,
Change of Facility in which Work is Performed

1. The original purpose of this subproject was to evaluate a number of candidate chemical agents in facilities and under the direction of individuals who, if later developed, became unavailable for this purpose due to unforeseen circumstances.

2. In the meantime, the funds for this subproject were transferred to the cutoff in anticipation of the commencement of the work.

3. In view of the security difficulties involved in the actual return of funds from the cutoff and also since another subproject (#91) was being served by the same cutoff, and furthermore, since subproject #91 was capable of providing its services on these chemical agents of interest and during the same fiscal year, it has been decided to divert the work intended for subproject #135 to the facilities of subproject #91. No significant change in funding or variation in fiscal year is concerned in this matter.

34,570
999 had /y

~~_____~~
CMFE
TSD/Research Branch

CONCUR:

Technical Services Division

Distribution:
Original only

91-10

10 November 1961

MEMORANDUM FOR: THE RECORD


SUBJECT : Correction to Project MKULTRA, Subproject 91,
Authorization No. 5, dated 27 June 1961.

1. The referenced subproject was extended in June for only six months when the intention was to extend for one year in time, but to finance the first six months only at the time of renewal.

2. In order to clear up this matter, Subproject 91 is hereby extended in time only for six months beginning 1 February 1962.


Chief

TSD/Research Branch



91-12

DATE: 27 June 1961


MEMORANDUM FOR: **COMPTROLLER**
ATTENTION : **Finance Division**
SUBJECT : **MOULTRA, Subproject 91, 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 91 was previously approved. Under the same authority an additional sum of \$24,960.00 has been authorized to cover the subprojects expenses, to be charged against cost center No. 2125-1390-3902.

A 
Chief
TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS:

I CERTIFY THAT FUNDS ARE AVAILABLE
OBLIGATION REFERENCE NO. 186
CHARGE TO ALLOCATION NO. 2125-1390-3902

original signed by
 A
Research Branch

AUTHORIZING OFFICER

Date: _____

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

TSD/RB,  27 June 1961

A

91-13

4 August 1961

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSD/Budget Officer

SUBJECT : MKULTRA, Subproject 91, Invoice #5
Allotment 2125-1390-3902

1. Invoice #5 covering the above subproject is attached.
Payment should be made as follows:

B Cashier's check in the amount of \$24,000.00 payable
to [redacted] drawn on [redacted]

B Cashier's check in the amount of \$960.00 payable to
[redacted] drawn on [redacted]

2. Please forward the checks to Chief, TSD/Research
Branch through TSD/Budget Officer by 21 August 1961.

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

[redacted] A
Chief
TSD/Research Branch
CHECK # 181551 IN THE AMOUNT OF \$24,000.00
RECEIVED
[redacted] A
16 Aug 1961
CHECK # 151 IN THE AMOUNT OF \$960.00
RECEIVED
[redacted] A
S168
16 Aug 1961

Attachments:
Invoice & Certifications

Distribution:
Orig & 2 - Addressee

91-13

4 August 1961

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSD/Budget Officer

SUBJECT : MKULTRA, Subproject 91, Invoice #5
Allotment 2125-1390-3902

1. Invoice #5 covering the above subproject is attached.
Payment should be made as follows:

B Cashier's check in the amount of \$24,000.00 payable
to [redacted] drawn on [redacted]

B Cashier's check in the amount of \$960.00 payable to
[redacted] drawn on [redacted]

2. Please forward the checks to Chief, TSD/Research
Branch through TSD/Budget Officer by 21 August 1961.

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

A [redacted]
Chief
TSD/Research Branch

3 AUG 1961

Attachments:
Invoice & Certifications

I CERTIFY THAT FUNDS ARE AVAILABLE
OBLIGATION REFERENCE No. 170
CHARGE TO ALLOTMENT No. 2125-1390-3902

AUTHORIZING OFFICER

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

TSD/RB (4 August 1961)

A [redacted]

91-14

17 August 1961

B

[REDACTED]

Gentlemen:

We are pleased to be able to transmit to you the following funds:

E Treasurer's Check No. 184885, dated August 15, 1961, drawn on the [REDACTED] for \$24,000.00.

E Treasurer's Check No. 268751, dated August 15, 1961, drawn on the [REDACTED] for \$960.00.

These funds represent a contribution for the use of your directors in carrying out the very worthwhile research goals of your obligations.

Yours truly,

Attachments (2)

91-14

[REDACTED]

INVOICE

For Services

~~\$24,960.00~~

B [REDACTED]

CERTIFICATIONS

(1) It is hereby certified that this is Invoice 5 applying to Sub-project No. 91 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 91 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: _____

[REDACTED]

91-14

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 F U N D S	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	29-33 T/A NO. P.O. NO.	PROJ. NO.	PROJECT NO.	*FY						62-67 CR. NO. X REF. NO.	OBJECT CLASS	DEBIT CREDIT
Budget Int'l				8821		196	601.0	25-1390-3902	752	2496.00		
MILK EXTRA						72	-1100		368			2496.00
MILK EXTRA						108	-1100		381			560.00
EXPLANATION OF ENTRY									TOTALS			
See attached												
									184885			
									\$24,000.00			
									\$96.00			
DATE	PREPARED BY	DATE	REVIEWED BY	CERTIFIED FOR PAYMENT OR CREDIT								
July				DATE	SIGNATURE							

91-15
[REDACTED]
27 June 1961

MEMORANDUM FOR: THE RECORD

SUBJECT : Continuation of Project MKULTRA, Subproject 91
Authorization #5

1. The purpose of this subproject is to provide funds to continue the research program which furnishes advanced animal screening and preclinical pharmacological testing required by the program on the development of new psychochemicals. The program is providing fundamental information bearing on the problem of structure activity relationships among these compounds.

2. The research group conducting the investigations are exerting their best efforts to provide the data requirements imposed on them. The experimental work being carried out under this project is oriented and programmed to meet our planned research and development needs. In order to bring the program into alignment with contemplated researches and possible modifications that may be dictated by anticipated results from the current research, this program will be extended for a six month period. *are you?*

3. The cost of this program for a period of six months beginning 1 August 1961 is estimated to be \$24,000.00. To this sum must be added \$960.00 representing a four per cent service charge to ~~[REDACTED]~~ who will act as cut out, so that the total cost of the project will not exceed \$24,960.00. Charges should be made against Allotment No. 2125-1390-3902.

[REDACTED]

[REDACTED]

91-15

B
[redacted] has requested that
B [redacted] submit to them a summary accounting of funds
received from [redacted] and that they return any unused funds
remaining at the end of the grant period.

5. It is not anticipated that any permanent equipment will be
required for this program.

6. It has been agreed that documentation and accounting for travel
expenses which are reimbursable shall conform to the accepted practices
of the organization conducting the research.

7. The requirement for a semi-annual informal accounting on the part
of the principal investigator has been waived.

8. All personnel connected with the planning and monitoring of this
program possesses Agency TOP SECRET approval. The project will be
unclassified after it leaves the [redacted] **B**

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

APPROVED FOR OBLIGATION OF FUNDS:

[redacted] **A**
Research Director

Date: 3 AUG 1961

Attachments:
Budget and proposal

Distribution:
Original only.

[redacted]

PROPOSAL

It is proposed to continue certain biological tests of a pharmacological nature as directed by the Sponsor of this project on chemical materials and extracts to be furnished by the Sponsor. These tests involve small animal studies and/or clinical work in certain cases as indicated in each particular instance. The sponsor will have full control of the methods and procedures to be followed in the work and it is understood that these will vary during the course of the project depending upon research findings in other facilities working in this same general biological program.

In addition, as time and funds allow, pilot experiments will be performed utilizing various known substances having effects on the central nervous system in an effort to refine and improve the present capability of detecting and characterizing such activity in small animals. Attention will also be given to the problem of extrapolation of results between various species of animals.

It is expected that the attached budget will be required to carry out the program outlined above for a period of six months.

91-15

BUDGET

Salaries	\$15,000
Overhead (25% of Salaries)	3,750
Travel	600
Services (Analytical, etc.)	1,400
Supplies and Materials	1,000
Animals	2,250
	<hr/>
Total	\$24,000

~~XXXXXXXXXX~~ B

91-16

15 February 1961

B [REDACTED]

Gentlemen:

We are pleased to be able to transmit to you the following funds:

E Treasurer's Check No. 180283, dated 10 February 1961, drawn on [REDACTED] for \$960.00.

E Cashier's Check No. 2-021848, dated 10 February 1961, drawn on [REDACTED] for \$24,000.00.

These funds represent a contribution for the use of your directors in carrying out the very worthwhile research goals of your obligations.

Yours truly,

Enclosures (2)

91-18

DATE: 26 January 1961

MEMORANDUM FOR : CONTROLLER

ATTENTION : Finance Division

SUBJECT : MILEERA, Subproject 91, Authorization No. A

Under the authority granted in the memorandum dated 13 April 1955, from the DCI to the DD/A and the extension of this authority in subsequent memoranda, Subproject 91 was previously approved. Under the same authority an additional sum of \$24,960.00 has been authorized to cover the subprojects expenses, to be charged against cost center No. 1125-1390-3902.

A [Redacted]
-Chief
TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS:

[Redacted] A

1413

Date: _____

Distribution:

Orig. & 2 - Advance

A - TSD/PASS

2 - TSD/RB

91-19

2 February 1961

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSD/Budget Officer

SUBJECT : ACULTRA, Subproject 91, Invoice #4
Allotment 1125-1390-3902

1. Invoice #4 covering the above subproject is attached.
Payment should be made as follows:

Cashier's check in the amount of \$24,000.00 payable
to [REDACTED] drawn on [REDACTED]

Cashier's check in the amount of \$960.00 payable to
[REDACTED] drawn on [REDACTED]

2. Please forward the checks to Chief, TSD/Research Branch
through TSD/Budget Officer by 15 February 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.

[REDACTED] A
Chief
TSD/Research Branch

Attachments:
Invoice & Certifications

RECEIVED [REDACTED] 14 FEB 1961
AMOUNT OF \$24,000⁰⁰

Distribution:
Orig & 2 - Addressee

[REDACTED] A
RECEIVED [REDACTED] 14 FEB 1961
AMOUNT OF \$960⁰⁰
[REDACTED] A

ISSUES

For Payment

\$24,960.00

B

CONCLUSIONS

(1) It is hereby verified that this is Invoice # applying to sub-project 91 of 1958. This performance is satisfactory, that services are being rendered in accordance with actual agreements, that a detailed account of the systems and services is on file in 100/100, that this bill is just and correct and that payment thereof has not yet been made.

(Print Name/Signature) [Redacted]

DATE: 2 February 1961

(2) It is hereby verified that this invoice applies to Subproject 100/100 which was only operative, and that by virtue of being rendered and approved with the agreement of 23 April 1959 from the S-15 to the S-17, and the nature of this activity in subsequent months.

(Print Name/Signature) [Redacted]

[Redacted]

9/19/61

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	45-46 PAY PER. LIQ. CODE	47-52 OBLIG. REF. 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		29-33 T/A NO.	PROP. NO.			ADVANCE ACCT. NO.			62-67 CK. NO.	OBJECT CLASS	DEBIT	CREDIT
		P.O. NO.	PROJECT NO.			EMP. NO.			X REF. NO.			
SUBS. PROJ. 9.1. INV. 4				8811		1413		6010	25-1390-3902	752	24,960.00	
MKVETRA						118		-1100	702			24,000.00
H						118		-1100	703			960.00
EXPLANATION OF ENTRY										TOTALS	24,960.00	24,960.00
<i>See attached</i>												
DATE	PREPARED BY	DATE	REVIEWED BY	CERTIFIED FOR PAYMENT OR CREDIT								
2/9/61	[Redacted]			DATE	SIGNATURE OF OFFICER							
				2/9/61	[Redacted Signature]							

91-20

DRAFT

25 January 1961

MEMORANDUM FOR THE RECORD

SUBJECT: Project MKULTRA, Subproject 91

1. The purpose of this subproject is to provide funds to continue the research program which furnishes advanced animal screening and preclinical pharmacological testing required by the program on the development of new psychochemicals. The program is providing fundamental information bearing on the problem of structure activity relationships among these compounds.

2. The research group conducting the investigations are exerting their best efforts to provide the data requirements imposed on them. The experimental work being carried out under this project is oriented and programed to meet our planned research and development needs. In order to bring the program into alignment with contemplated researches and possible modifications that may be dictated by anticipated results from the current research, this program will be extended for a six month period.

3. The cost of this program for a period of six months beginning 1 February 1961 is estimated to be \$24,000.00. To this sum must be added \$960.00 representing a four per cent service charge to the [REDACTED] who will act as cut out, so that the total cost of the project will not exceed \$24,960.00. Charges should be made against Allotment No. 1125-1390-3902.

[REDACTED]

B

4. [redacted] has requested
the [redacted] submit to them a summary accounting of
funds received from [redacted] and that they return any unused
funds remaining at the end of the grant period.

5. It is not anticipated that any permanent equipment will be
required for this program.

6. It has been agreed that documentation and accounting for
travel expenses which are reimburseable shall conform to the accepted
practices of the organization conducting the research.

7. The requirement for a semi-annual informal accounting on the
part of the principal investigator has been waived.

8. All personnel connected with the planning and monitoring of
this program possesses Agency TOP SECRET approval. The project will
be unclassified after it leaves [redacted]

[redacted]

APPROVED FOR OBLIGATION OF FUNDS:

[redacted] A
Research Director

[redacted] A
Chief
TSD/Research Branch

Date _____

Attachments:
Budget and proposal

Distribution:
Original only.

[redacted]

91-20

PROPOSAL

It is proposed to continue certain biological tests of a pharmacological nature as directed by the Sponsor of this project on chemical materials and extracts to be furnished by the Sponsor. These tests involve small animal studies and/or clinical work in certain cases as indicated in each particular instance. The sponsor will have full control of the methods and procedures to be followed in the work and it is understood that these will vary during the course of the project depending upon research findings in other facilities working in this same general biological program.

In addition, as time and funds allow, pilot experiments will be performed utilizing various known substances having effects on the central nervous system in an effort to refine and improve the present capability of detecting and characterizing such activity in small animals. Attention will also be given to the problem of extrapolation of results between various species of animals.

It is expected that the attached budget will be required to carry out the program outlined above for a period of six months.



91-20

BUDGET

Salaries	\$15,000
Overhead (25% of Salaries)	3,750
Travel	600
Services (Analytical, etc.)	1,400
Supplies and Materials	1,000
Animals	2,250

Total \$24,000

B ~~XXXXXXXXXX~~

~~XXXXXXXXXX~~

91-21 #91

#2



Grant for ... screening and Testing

Amount of Grant ----- \$20,000.00

Expenditures

Salaries and wages	\$4605.50
Materials and Supplies	3943.00
Rent and Utilities	8349.22
Travel	573.30
Services	789.64
Social Sec. Ins. etc.	587.96
Overhead	1151.38
	<u>20,000.00</u>

20,000.00

Balance -----

I hereby certify that the above is a true and correct copy of the original as shown to me.

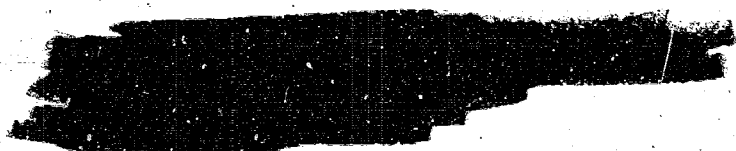


Accountant

11/27/65

91-22

15 March 1960



Gentlemen:

We are pleased to be able to transmit to you the following funds:

Ⓔ Treasurer's Check No. 248053 drawn on [redacted] for \$1,800.00

Ⓔ Treasurer's Check No. 172861 drawn on [redacted] for \$45,000.00

These funds represent a contribution for the use of your directors in carrying out the very worthwhile research goals of your organization.

Yours truly,

Enclosures (2)

91-73

No. 1728

Cost Account 0525-1139-462

Object Class _____

Date	Remarks and References	Obligations Incurred	Obligations Liquidated	Unliquidated Balance
29 FEB 1960	<i>Letter Sub 11 with 4.3</i>	<i>46,800.00</i>		<i>46,800.00</i>
<i>1 May</i>	<i>Doc. 3</i>		<i>46,800.00</i>	<i>—</i>

[Redacted]

91-24

11 February 1960

MEMORANDUM FOR: COMPTROLLER
ATTENTION : FINANCE DIVISION
SUBJECT : MKULTRA, Subproject 91, 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 91 has been approved and \$46,800.00 of the over-all MKULTRA project funds has been obligated to cover the subproject expenses. This obligation of funds should be charged to Allotment 0525-1009-4902.

A [Redacted]
 Chief
 TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS:

VERIFY THAT FUNDS ARE AVAILABLE
 OBLIGATION REFERENCE NO. 1738
 CHARGE TO PROJECT FILE
 AUTHORIZED SIGNATURE

Approved by *A*

Research Director

Date: FEB 11 1960

Distribution:
 Orig & 2 - Addressee

1 - TSS/OC
 1 - TSS/FASB
 2 - TSS/CD
 TSS/CD (11 Feb 60)

MEMORANDUM RECEIPT

91.25
15 Mar 60
DATE

TO:

FROM:

SUBJECT:

I hereby acknowledge receipt of the following:

\$ 1,800.00

248053

B

A

[Redacted signature area]

Please return _____ signed copy(ies) of this receipt

SIGNATURE OF RECIPIENT

To _____

14 Mar 60
DATE RECEIVED

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

(33)

MEMORANDUM RECEIPT

15 Mar 60
DATE

TO:

FROM:

SUBJECT:

I hereby acknowledge receipt of the following:

\$ 15,000.00

172861

B

A

[Redacted signature area]

Please return _____ signed copy(ies) of this receipt

SIGNATURE OF RECIPIENT

To _____

14 Mar 60
DATE RECEIVED

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

(33)

91-26

1 March 1960

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSD/Budget Officer

SUBJECT : MKULTRA, Subproject 91, Invoice #3
Allotment 0525-1009-4902

1. Invoice #3 covering the above subproject is attached.
Payment should be made as follows:

B Cashier's check in the amount of \$1,800.00 payable
to [redacted] drawn
on [redacted]

B Cashier's check in the amount of \$45,000.00 payable
to [redacted] drawn on
[redacted]

2. Please forward the checks to Chief, TSD/Chemical
Branch through TSD/Budget Officer by 15 March 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.

A [redacted]
Chief
TSD/Chemical Branch

Attachments:
Invoice & Certifications

Distribution:
Orig & 2 - Addressee

EDVOST/MT
MAR 3 3 00 PM '60
RECEIVED

15712

91-26

INVOICE

For Services

\$46,800.00

B

CERTIFICATIONS

(1) It is hereby certified that this is Invoice #3 applying to Subproject 91 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 filed in TSD/CB, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSD/Chemical Branch

Date: _____

(2) It is hereby certified that this invoice applies to Subproject 91 under 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]

91-26

CONFIDENTIAL FUNDS POSTING VOUCHER

VOUCHER NO. 7-12			DATE 2-6					VOUCHER NO. 7-12						
DESCRIPTION-ALL OTHER ACCOUNTS 13-33		28-33 T/A NO.	34-39 STATION CODE	40-42 EXPEND CODE	43 F U N D 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.	52-67 CR. NO. X REF. NO.	68-70 DUE DATE OBJECT CLASS	71-80 AMOUNT DEBIT CREDIT	
Sub Proj 91 Inv 3				88-0	5		601728	601-0	25 1004 4962		172	46,800. ⁰⁰		
MK ULTRA													1,800. ⁰⁰	
MK ULTRA													45,000. ⁰⁰	
EXPLANATION OF ENTRY												TOTALS		
Two Checks needed - Please see Payment instructions which are on the attached documents														
DATE	PREPARED BY	DATE	REVIEWED BY	CERTIFIED FOR PAYMENT OR CREDIT										
				DATE	SIGNATURE	[Redacted Signature]								

A

91-27

DRAFT
11 February 1960

MEMORANDUM FOR: THE RECORD

SUBJECT : Project MKULTRA, Subproject 91

1. The purpose of this subproject is to provide funds to continue the research program which furnishes advanced animal screening and preclinical pharmacological testing required by the program on the development of new psychochemicals. The program is providing fundamental information bearing on the problem of structure activity relationships among these compounds.

2. The state of knowledge in areas of influencing human behavior has been steadily improving and the experimental work being carried out under this project is meeting our programmed needs. The sponsor has obtained and assigned highly competent technical personnel and is exerting his best efforts to provide the data requirements imposed on him.

3. The cost of this program for a period of one year beginning 1 February 1960 is estimated to be \$45,000.00. To this sum must be added \$1,800.00 representing a four per cent service charge to [REDACTED] who will act as cut out, so that the total cost of the project will not exceed \$46,800.00. Charges should be made against Allotment No. 0525-1059-4902.

4. The [REDACTED] has requested that

[REDACTED] submit to them a summary accounting of funds received [REDACTED]

from ^B [redacted] and that they return any unused funds remaining at the end of the grant period.

5. It is not anticipated that any permanent equipment will be required for this program.

6. It has been agreed that documentation and accounting for travel expenses which are reimbursable shall conform to the accepted practices of the organization conducting the research.

7. The requirement for a semi-annual informal accounting on the part of the principal investigator has been waived.

8. All personnel connected with the planning and monitoring of this program possess Agency TOP SECRET approval. The project will be unclassified after it leaves the [redacted] ^B

^A [redacted]

TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS:

^A [redacted]
Research Director

APPROVED:

^A [redacted]
Chief
TSS/Chemical Division

Date: 2/2/60

Attachments:
Budget and proposal

Distribution:
Original only

[redacted]

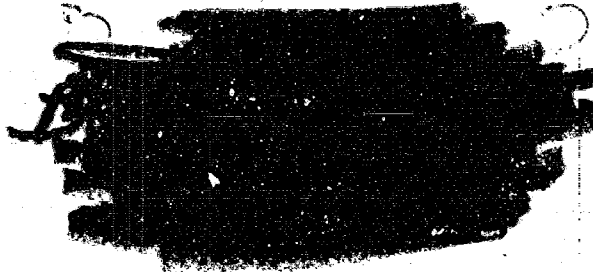
91-27

BUDGET

Salaries	\$28,800	15,000
Overhead (25% of Salaries)	7,200	3,750
Travel	1,200	600
Services (Analytical, etc.)	1,800	1,400
Supplies and Materials	4,200	
Animals	1,800	1000
Total	\$45,000	

A [REDACTED]

91-28



December 31, 1959



Grant for : Pharmacological screening and testing

Funds received : 20,500.00

Expenditures :

Wages and salaries	10,907.60
Equipment	3,623.93
Supplies; expendables	1,303.41
Animals	1,783.84
Overhead	2,880.60
	<u>20,499.38</u>

#91-1

Total expenditures 20,499.38

Balance .62



Accountant

C



A

13 January 1960

91-79

30 September 1959

B

[REDACTED]

Gentlemen:

We are pleased to be able to transmit to you the following funds:

E Cashier's Check No. 180640 drawn on [REDACTED] for \$800.00

E Treasurer's Check No. 242234 drawn on [REDACTED] for \$20,000.00.

These funds represent a contribution for the use of your directors in carrying out the very worthwhile research goals of your organization.

Yours truly,

Enclosures (2)

91-51

23 September 1959

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

SUBJECT : MKULTRA, Subproject 91, Invoice #2
Allotment 0525-1009-4902

1. Invoice No. 2 covering the above subproject is attached.
Payment should be made as follows:

B Cashier's check in the amount of \$800.00 payable
to [redacted] drawn
on [redacted]

B Cashier's check in the amount of \$20,000.00 payable
to [redacted] drawn on
[redacted]

2. Please forward the checks to Chief, TSS/Chemical
Division through TSS/Budget Officer by 7 October 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.

[redacted] **A**
Chief
TSS/Chemical Division

E
Attachments:
Invoice & Certifications

Distribution:
Orig & 2 - Addressee

CHECK #2224 IN THE AMOUNT OF \$2222⁰⁰
RECEIVED 30 SEP 1959

CHECK #2260 IN THE AMOUNT OF \$2260⁰⁰
RECEIVED 30 SEP 1959

18203

91-31

INVOICE

For Services

\$20,800.00



CERTIFICATIONS

(1) It is hereby certified that this is Invoice #2 applying to Subproject 91 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 filed 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 91 under 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: _____



91-31

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. 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. P.O. NO.	PROP. NO.	PROJECT NO.						62-67 CR. NO. X REF. NO.	OBJECT CLASS	DEBIT	CREDIT
SUPPLY												
												2000000
												1000000
EXPLANATION OF ENTRY									TOTALS			
See attached												
DATE	PREPARED BY	DATE	REVIEWED BY	CERTIFIED FOR PAYMENT OR CREDIT		DATE	SIGNATURE					

PAID
 242230
 280640
 SEP 21 1958

A

9132

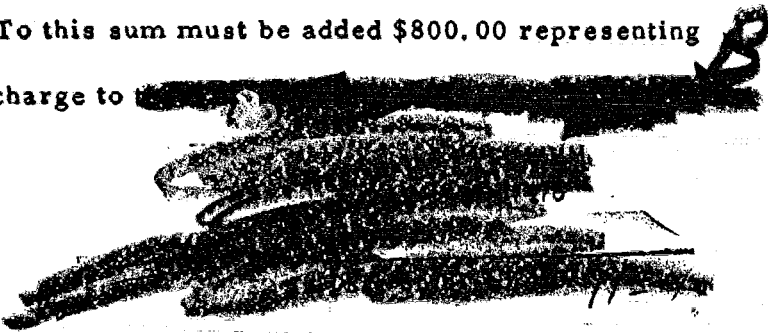
DRAFT
18 September 1959

MEMORANDUM FOR: THE RECORD

SUBJECT : Supplement to Project MKULTRA, Subproject 91

1. The purpose of this supplement is to provide additional funds to carry out an expanded animal screening of selected compounds directly related to the development of new chemicals which influence human behavior. The program provides fundamental information on structure-activity relationships among new psychochemicals. It will provide an insight into the activity of chemical compounds of possible value for operational applications. The studies are directed toward elucidating the relationship between this parameter and personality structure and mentation.

2. In order to keep abreast of new compounds which have been recently uncovered and synthesized, it becomes necessary to increase the advanced animal screening. It is expected that results obtained from the advanced screening will provide basic information required for research into the pharmacodynamics of new and more effective compounds. The additional funds required for this program for the year amount to \$20,000.00. To this sum must be added \$800.00 representing a four per cent service charge to



[redacted] who act as cut out, making the total amount \$20,800.00.

Charges should be made against Allotment No. 0525-1009-4902.

3. [redacted] has requested that [redacted] submit to them a summary accounting of funds received from [redacted] and that they return any unused funds remaining at the conclusion of the program.

4. It is not anticipated that any permanent equipment will be required for this program.

5. It has been agreed that documentation and accounting for travel expenses which are reimbursable by [redacted] shall conform to the accepted practice of that organization.

6. The requirement for a semi-annual informal accounting has been waived.

7. All personnel connected with the planning and monitoring of this program possess Agency TOP SECRET approval. The project will be unclassified after it leaves [redacted]

A [redacted]
TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS:

APPROVED:

A [redacted]
Research Director

A [redacted]
Chief
TSS/Chemical Division

Date: 9/21/59

Distribution:
Original only

by [redacted]

91-33

18 September 1959

MEMORANDUM FOR: COMPTROLLER

ATTENTION : FINANCE DIVISION

SUBJECT : MKULTRA, Subproject 91, *Additional Authorization no. 2*

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 91 has been approved and \$20,800.00 of the over-all MKULTRA project funds has been obligated to cover the subproject expenses. This obligation of funds should be charged to Allotment 0525-1009-4902.

[Redacted]
Chief
TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS:

Research Director

Date:

Distributions:

Orig & 2 - Addressee

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

TSS/CD *[Redacted]* (18Sept'59)

A

[Redacted]

91-34

2 February 1959

B [REDACTED]

Gentlemen:

We are pleased to be able to transmit to you the following funds:

Treasurer's check No. 23290b drawn on [REDACTED] for \$820.00 E

Cashier's check No. A72260 drawn on [REDACTED] for \$20,500.00 E

These funds represent a contribution for the use of your directors in carrying out the very worthwhile research goals of your organization.

Yours truly,

Enclosures (2)

91.35

26 January 1959

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

SUBJECT : MCOLTRA, Subproject 91, Invoice #1
Allotment 9-2502-75-902

1. Invoice #1 covering the above subproject is attached.
Payment should be made as follows:

B Cashier's check in the amount of \$820.00 payable
to [redacted] drawn

B Cashier's check in the amount of \$20,500.00 payable
to [redacted] drawn on

2. Please forward the checks to Chief, TSS/Chemical Division
through TSS/Budget Officer by Monday, February 9, 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.

[redacted] A
Chief
TSS/Chemical Division

Attachments:
Invoice & Certifications

Distribution:
[redacted] & [redacted] - Addressee

E CHECK # 23261 IN THE AMOUNT OF \$820.00
RECEIVED. 30 JAN 1959 A

E CHECK # 872269 IN THE AMOUNT OF \$20,500.00
RECEIVED. A

91-35

INVOICE

For Services

\$21,320.00

B- [REDACTED]

CERTIFICATIONS

(1) It is hereby certified that this is Invoice #1 applying to Subproject 91 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 filed 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 91 under 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: _____

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	45-48 PAY PER. L.O. CODE	47-52 OBLIG. REF. NO. ADVANCE ACCT. NO. EMP. NO.	53 CA YR	54-57 GENERAL LEDGER ACCT. NO.	59-67 ALLOT. LEDGER ACCT. NO.	62-67 CK. NO. X REF. NO.	68-70 DUE DATE OBJECT CLASS	71-80 AMOUNT	
DESCRIPTION-ADVANCE ACCOUNTS 13-27		28-33 I/A NO. PUR. ORDER NO.	32-33 DIV. PROJECT NO.	FY							DEBIT	CREDIT
EXP. 1/1/1					889		6001	1511	92	179	11,100.00	
1/1/1												11,100.00
EXPLANATION OF ENTRY											TOTALS	

see attached

23200
23200

DATE	PREPARED BY	DATE	REVIEWED BY	CERTIFIED FOR PAYMENT OR CREDIT	
				DATE	SIGNATURE OF CERTIFYING OFFICER
				30/Jan/49	

6517084

98-36

15 January 1959

MEMORANDUM FOR: CONTROLLER

ATTENTION : Finance Division

SUBJECT : Project MOUTRA, Subproject 91

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 91 has been approved, and \$21,320.00 of the over-all project MOUTRA funds has been obligated to cover the subproject's expenses and should be charged to Allotment 9-2502-75-902.

~~Signature~~ A
Chief
TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS:

Initiated by ~~Signature~~ A
Research Director
Date 15 JAN 1959

I CERTIFY THAT FUNDS ARE AVAILABLE
OBLIGATION REFERENCE No. 1595
CHANGE TO ALLOTMENT No. 9-2502-75-902

21 JAN 1959

AUTHORIZING OFFICER

Distribution:
Orig & 2 - Addressee
1 - TSS/OC
1 - TSS/FASB
1 - TSS/SRB
2 - TSS/CD
TSS/CD 15 Jan 59

A

91-37

DRAFT

15 January 1959

MEMORANDUM FOR THE RECORD

SUBJECT: Project MKULTRA, Subproject 91

1. The purpose of this subproject is to provide funds to carry on the advanced animal screening and certain parts of the pre-clinical pharmacology required by the program on the development of new psychochemicals. In addition, this phase of the program will automatically provide fundamental information bearing on the problem of the structure-activity relationships among these compounds. It will also give a better insight into the problem of compound selection for operational applications and the relationship between parameter and the personality structure of the particular person being studied.

B 2. Preliminary screening on the materials involved in this study has been carried out at [redacted] over the past three years. During this time the state of knowledge in this area has steadily improved so that it is no longer possible for the work to be carried out by this contractor. The type of experimental work now required in the program is simply far beyond his capability both in terms of equipment and personnel required for the job. For this reason the rate of expenditure at [redacted] on this preliminary screening work has steadily dropped with time while facilities capable of carrying out the more advanced phases of the program were being located. The present view is that with a slight overlap during this year between these projects, [redacted] portion will be phased out at the end of the year to be replaced with this new facility.

B H C 3. The experimental design in this subproject is based upon results derived from subprojects 22, 51, 70, 62, 58, 53, 46, 44, 45, the [redacted] work of the past three years, and project [redacted]. The personnel and consultants involved consist of CD/Branch II personnel working with Drs. [redacted]. [redacted] Because the work leads off almost immediately into completely unknown areas, all of these consultants will maintain a very close but informal surveillance of the raw data as the work progresses so as to be able to take advantage of every new development as it comes to light in guiding further work in the project.

B 4. As indicated in the attached proposal, the cost of this program for a period of one year will amount to \$20,500.00. To this must be added a 4% service charge to the [redacted] who will act as cutout so that the total cost of the project will not exceed

[Large redacted area]

\$21,320.00. Charges should be made against allotment 9-2502-75-902.

5. The [redacted] has requested that [redacted] submit to them a summary accounting of funds received from [redacted] and that they return any unused funds remaining at the conclusion of the program.

6. It is not anticipated that any permanent equipment will be required for this phase of the program.

7. It has been agreed that documentation and accounting for travel expenses which are reimbursable by [redacted] shall conform to the accepted practice of that organization.

8. The requirement for a semiannual informal accounting has been waived.

9. All personnel connected with the planning and ^{Monitoring} maintaining of results of this program possess Agency TOP SECRET approval, however none of the personnel of [redacted] with the exception of [redacted] is cleared and none will be made witting of Government interest. The project will be unclassified after it leaves the [redacted].

A [redacted]
Chief
TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS:

[redacted] A
Research Director

Date Dec 10 1955

Orig only.

Attachment - Proposal

[redacted]

91-37
15 January 1959

PROPOSAL

It is proposed to conduct certain biological tests of a pharmacological nature as directed by the Sponsor of this project on chemical materials and extracts to be furnished by the Sponsor. These tests may involve enzyme preparations, small animal work and/or clinical work in certain cases as indicated in each particular instance. The Sponsor will have full control of the methods and procedures to be followed in the work and it is understood that these will vary during the course of the project depending upon research findings in other facilities working in this same general biological program.

In addition, as time and funds allow, pilot experiments will be performed utilizing various known substances having effects on the central nervous system in an effort to refine and improve the present capability of detecting and characterizing such activity in small animals. Attention will also be given to the problem of extrapolation of results between various species of animals.

It is expected that the attached budget will be required to carry out the program outlined above for a period of one year.

91-2

91-37

BUDGET

Salaries	\$12,000
Overhead (25% of Salaries)	3,000
Travel	500
Service (Analytical, etc.)	1,500
Supplies and Materials	3,000
Contingencies	500
Total	<u>\$20,500</u>

~~_____~~ B

PROPOSAL

During the past few years a great deal of progress has been made in relation to the function and metabolism of various anatomical divisions of the human central nervous system. This progress has to a great extent been fostered and abetted by the study of the effects of drugs on this very complex system. These drugs have mainly been utilized as tools in attempts to develop the relationships between cerebral metabolic processes and brain function as expressed by individual mood and behavioral changes.

In general, pharmacologists are just beginning to realize the potentialities of work in this field and have not as yet adjusted their research goals and techniques to take full advantage of existing knowledge. The general tendency in this respect is to attempt to apply simple modifications of existing techniques to the study of these phenomena. This approach is useful but entirely inadequate to produce progress consistent with that in other fields of medical research. A further problem of significance in relation to this work is the fact that it has developed to a great extent on the clinical side with far too little attention paid to the general pharmacology of the drugs concerned. Without such basic work progress will continue only on a pure chance basis with little theoretical background.

Therefore, it is proposed to:

1. Design and test methods involving experimental animals which will discriminate between drug-produced, generalized depressed states and generalized excited states of the central nervous system and those particular and specific states or effects which can eventually be related to overt behavioral responses of a sort which entail some possibility of practical exploitation. In this process it would be expected that drugs having a more "pure" type of action than those presently available would be discovered.

2. Discover and test materials having specific effects either in the periphery or the central nervous system which result in the distortion of nerve impulses in the sensory tracts of the nervous system.

3. Validate the above methods and effects in normal humans and relate them to alterations in mood and behavior in as objective a fashion as possible.

[Handwritten signature]

4. Establish and maintain facilities for those general pharmacological procedures, i. e., the relationships of the unknown drugs to the known humoral agents, etc., which are necessary in order to describe intelligently the action of the new drugs for their application in the above-mentioned tests.

It is felt on the basis of present knowledge that such a program as that outlined above will go far to bridge the tremendous gap in knowledge which presently exists between known drug-substrate relationships and the overt manifestations of these drugs.

[Handwritten signature]

91-39

CURRICULUM VITAE

[REDACTED]

Born: [REDACTED]

Degrees: [REDACTED]

Academic: [REDACTED]

Memberships: Society Experimental Biology
Society Pharmacology
Cancer Society
[REDACTED], Academy of Medicine

Research: Conducted intensive research on: endocrine glands,
(insulin, posterior pituitary, thyroid, anterior
pituitary) chemotherapy, alcohol, virus and cancer.

Pharmacology of dinitrophenol