



THE BLACK VAULT

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MEULTRA #70

15,990.
25,922
40,912

dup - 70-2

		Amount	For Content Part	Acctg
Acct #1	2 Yr Appraisal 1 MAY 57 Invoice 1 Invoice 2 7/1/57 - 11/30/58 (15,390.00)	18,904.8 + 7,262.00	9,452.4 21,870.00 9,452.4 25,727.00	154,386.10 (486.17)
Acct #2	1 Yr Appraisal Sep 59 INVOICE 3 Salary Pmts Aug 57 - Apr 58 6/1/58 - 7/1/59 (25,422.00) Cont by Boston 10/17/60	12,360.00 30,900.00	12,360.00 30,900.00	600,000.00 255,279.11 (1,054.11) 309,000.00
Acct #3	1 Yr Appraisal Oct 60 10/1/60 - 11/30/61 HP TOMIKU-94 TRUCK INVOICE 4	12,724.8 31,812.50	12,724.8 31,812.50	251,839.21 279,921.6
		43,989.6 109,979.50	43,921.0 108,552.50	108,256.52
				15,902.11 108,102.50 45,000.21 108,552.50
				1 paid by Company 2 funds not refunded from Insurance Authorization 1.
	H			
	1422.00	760.0		
	1422.00			
	# 70 472			

70-1

INVOICE CHECK SHEET

AMERICA Subject 70

Date of Original Authorization	Period Covered	Time Reported to	Allocation Number	Amount of Collection
1 May 57	2 yrs		0-2502-10-00	\$49,105.98

Additional Authorizations	Period Covered	Time Reported to	Allocation Number	Amount of Collection
#2			0525-1017902	\$32,136.00

Invoice No.	Date	Amount	Balance
#1	2 Aug 57	22,785.24	26,367.24
#2	13 May 58	26,367.24	0
Auth 2	16 Sept 57		\$32,136.00
#3	23 Sept 57	\$32,136.00	0
Auth 3	27 Oct 1960		\$33,084.98
#4	27 Oct 60	33,084.98	0

NOTICE: change for mailing checks etc

CERTIFICATION

This is to certify that we have the final accounting for grants made to MCOLTRA Sub-Project 70. The accounting is being retained in TSD where it may be reviewed by the Certifying Officer upon request.

I further certify that satisfactory services have been received and that to the best of my knowledge the funds advanced for such services were expended for the purpose authorized by the project approval.

~~_____~~
Chief Scientist, TSD

A

SECRET
(When Filled In)

70-4

ACCOUNTING BY INDIVIDUAL FOR ADVANCE		SUBMITTED BY MOULTRA, Sub-Project 70				DATE - VOUCHER NO. 2-12							
		PERIOD OF ACCOUNTING											
		FROM		TO									
NOTE: Follow Instructions on Reverse													
1. CASH ON HAND BEGINNING OF PERIOD		\$ 1,422.00		5. EXPENSES THIS PERIOD:									
2. OUTSTANDING ADVANCES BEGINNING OF PERIOD				VOUCHER NUMBER		DATE		DESCRIPTION		AMOUNT			
3. RECEIPTS THIS PERIOD:								See Attached Certification		\$ 1,422.00			
RECEIPT NUMBER	DATE	DESCRIPTION											
		760.0 25 770185 000070 Inv. 4 MCR-514											
								TOTAL EXPENSES		\$ 1,422.00			
				6. REFUNDED HEREWITH		CASH		CHECK		MONEY ORDER			
								7. OUTSTANDING ADVANCES END OF PERIOD (Attach listing)					
								8. CASH ON HAND END OF PERIOD OR BALANCE DUE ADVANCEE					
4. TOTAL TO ACCOUNT FOR		\$ 1,422.00		9. TOTAL ACCOUNTED FOR						\$ 1,422.00			
I CERTIFY FUNDS ARE AVAILABLE				APPROVED				I certify that the expenditures listed hereon 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.					
OBLIG. REF. NO.		CHARGE FAN ACCOUNT NO.		DATE		SIGNATURE OF APPROVING OFFICER							
824						GIMNEY COMBLES 20/20							
DATE		SIGNATURE OF AUTHORIZING OFFICER		CERTIFIED FOR PAYMENT OR CREDIT		SIGNATURE OF PAYEE							
				DATE		SIGNATURE OF CERTIFYING OFFICER							
						A							
SPACE BELOW FOR EXCLUSIVE USE OF OFFICE OF FINANCE													
DESCRIPTION - ALL OTHER ACCOUNTS 13-33		34-39 STATION CODE		40-41 EXCISE	42-47 OBLIG. REF. NO.		48-49 PAY OR PER. LIO. CODE	50-54 GENERAL LEDGER ACCT. NO.	55-66 COST - FAN ACCOUNT SYMBOL		67-70 OBJECT CLASS	71-80 AMOUNT	
DESCRIPTION - ADVANCE ACCOUNTS 13-27		28-33 T/A NO.	SHIP. DOC. NO.	REC. RPT. NO.	PROJECT NO.	ADVANCE ACCT. NO.	EMP. NO.	PER. C O S T YR.	61-66 EX. NO.	68-70 DUE DATE	DEBIT		CREDIT
DATE		PREPARED BY			DATE		REVIEWED BY			TOTALS			

70-5

CERTIFICATION

This is to certify that we have the final accounting for grants made to MULTIA Sub-Project 70. The accounting is being retained in TSD where it may be reviewed by the Certifying Officer upon request.

I further certify that satisfactory services have been received and that to the best of my knowledge the funds advanced for such services were expended for the purpose authorized by the project approval.

~~XXXXXXXXXXXXXXXXXXXX~~
Chief Scientist, TSD

ACCOUNTING BY INDIVIDUAL FOR ADVANCE

SUBMITTED BY

MCILTRA, Sub-Project 70

PERIOD OF ACCOUNTING

DATE - VOUCHER NO. 2-12

70-6

FROM

TO

30 November 1961

NOTE: Follow Instructions on Reverse

1. CASH ON HAND BEGINNING OF PERIOD	\$ 1,422.00	5. EXPENSES THIS PERIOD:			
2. OUTSTANDING ADVANCES BEGINNING OF PERIOD		VOUCHER NUMBER	DATE	DESCRIPTION	AMOUNT
3. RECEIPTS THIS PERIOD:				See Attached Certification	\$ 1,422.00
RECEIPT NUMBER	DATE	DESCRIPTION			
	760.0	25 770185			
		000070			
	Inv. 4	MOR-814			
TOTAL EXPENSES					\$ 1,422.00
6. REFUNDED HEREWITH		CASH	CHECK	MONEY ORDER	
7. OUTSTANDING ADVANCES END OF PERIOD (Attach listing)					
8. CASH ON HAND END OF PERIOD OR BALANCE DUE ADVANCEE					
4. TOTAL TO ACCOUNT FOR	\$ 1,422.00	9. TOTAL ACCOUNTED FOR			\$ 1,422.00

I CERTIFY FUNDS ARE AVAILABLE

OBLIG. REF. NO. **814** CHARGE FAN ACCOUNT NO. DATE SIGNATURE OF APPROVING OFFICER **SIDNEY GOTTlieb DC/TSD**

DATE SIGNATURE OF AUTHORIZING OFFICER CERTIFIED FOR PAYMENT OR CREDIT DATE SIGNATURE OF CERTIFYING OFFICER SIGNATURE OF PAYEE *A*

I certify that the expenditures listed hereon 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.

SPACE BELOW FOR EXCLUSIVE USE OF OFFICE OF FINANCE

DESCRIPTION - ALL OTHER ACCOUNTS 13-33	28-33 Y/A NO.	34-39 STATION CODE	40-41 EX PENSE	42-47 OBLIG. REF. NO.	48-49 PAY PER. ADVANCE ACCT. NO.	50 CA OR LIQ. CODE	51-54 GENERAL LEDGER ACCT. NO.	55-66 COST - FAN ACCOUNT SYMBOL	67-70 OBJECT CLASS	71-80 AMOUNT	
DESCRIPTION - ADVANCE ACCOUNTS 13-27	SHIP. DOC. NO.	REC. RPT. NO.	PROJECT NO.	EMP. NO.	YR.			61-66 CR. NO. REF. NO.	68-70 DUE DATE	DEBIT	CREDIT
DATE	PREPARED BY	DATE	REVIEWED BY	TOTALS							

11 June 1964

MEMORANDUM FOR : THE RECORD

SUBJECT : MOUTRA Subprojects 70, 91, 94 and 135

Since the completion of the audit of Project MOUTRA for the period 1 August 1960 through 31 January 1963, accountings have been received from ~~grantees~~ in the amount of \$93,677.50. This amount is part of the \$153,117.93 balance to be accounted for by ~~grantees~~ grantees at the end of the audit period.

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 \$71,324.67, 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 the Confidential Funds Division 760 account for these subprojects.

The above has been concurred in by ~~names~~ and ~~names~~ of the Audit Staff.

~~Signature~~
Chief Scientist, TSD

70-8

~~SECRET~~
(When Filled In)

ACCOUNTING BY INDIVIDUAL FOR ADVANCE	SUBMITTED BY MOULTRA Sub 70		VOUCHER NO. (Finance use only)
	PERIOD OF ACCOUNTING		
	FROM 1 October 1960	TO 30 November 1961	

NOTE: Follow Instructions on Reverse

RECEIPTS		DISBURSEMENTS				
1. CASH ON HAND BEGINNING OF PERIOD		\$	3. VOUCHER NUMBER	DATE	DESCRIPTION	AMOUNT
18.						\$
2. RECEIPT NUMBER	DATE	DESCRIPTION				
	3 Nov 1960	MOULTRA Advance Invoice # 4				
					See Attached Certification	
						30,390.50
TOTAL EXPENSES						\$ 30,390.50
TOTAL TO ACCOUNT FOR		\$ 30,390.50	TOTAL ACCOUNTED FOR			\$ 30,390.50

I CERTIFY FUNDS ARE AVAILABLE		APPROVED:		I certify that the expenditures listed hereon 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.
OBLIGATION REFERENCE NO. 814	CHARGE ALLOTMENT NO. K125-1009-1902	DATE	SIGNATURE OF APPROVING OFFICER SIDNEY COTTLEB, DC/TSD	
DATE: 19 JUN 1964	SIGNATURE OF AUTHORIZING OFFICER	CERTIFIED FOR PAYMENT OR CREDIT DATE	SIGNATURE OF PAYEE SECRET A	

SPACE BELOW FOR EXCLUSIVE USE OF FINANCE DIVISION												
PREPARED BY			REVIEWED BY			VOUCHER NO. 7-12						
DESCRIPTION - ALL OTHER ACCOUNTS 13-33		28-33 Y/A NO.	34-39 STATION CODE	40-42 EXPEND CODE	43 F U N D S	45-48 PAY PER. LTG. CODE	47-52 OBLIG. REF. NO. ADVANCE ACCT. NO. EMP. NO.	53 CA GENERAL LEDGER ACCT. NO.	56-67 ALLOT. OR COST ACCT. NO.	62-67 CR. NO. REF. NO.	68-70 DUE DATE OBJECT CLASS	71-80 AMOUNT DEBIT CREDIT
DESCRIPTION - ADVANCE ACCOUNTS 13-27	 P.O. NO. PROP. NO. PROJECT NO. FY							
											TOTALS	

FORM 282 USE PREVIOUS EDITIONS. 8-61

70-9

[REDACTED]

- B

[REDACTED]

- B

RESEARCH ON SLEEP AND UNCONSCIOUSNESS (PROJECT 520 W)

October 1, 1960 To November 30, 1961

Grant Income

\$ 30,390.50

Costs - October 1, 1960 To November 30, 1961

Salaries	\$ 1,580.25	
Payroll Taxes and Insurance	61.77	
Laboratory Supplies and Expense	408.47	
	2,050.59	
Allocation of G and A Expense	467.75	2,518.34
		27,872.16
Transfer of Costs from Project 510 W (94)		27,872.16
		\$ - -

[REDACTED]

- B

[REDACTED]

- C

I certify that services and materials have been satisfactorily furnished and the expenditures were incurred in the project process.

[REDACTED]

Date: 3/12/64 A

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.	50-67 ALLOT. OR COST ACCT. NO.	62-67 CR. NO. X REF. NO.	68-70 DUE DATE	71-80 AMOUNT	
DESCRIPTION-ADVANCE ACCOUNTS 13-27		29-33 T/A NO. P.O. NO. DIV	30-33 PROJECT NO.							OBJECT CLASS	DEBIT	CREDIT	
SUBPROJ. 70 INV. 4					8811	814		601.0	VS-1009-1902	752	3302812		
SUBPROJ. 72 FY 57					88M	2768		601.0	VS02-10-001	752		97200	
SUBPROJ. 70 INV. 4					8805	571		601.0	VS-1009-4902	752		45000	
MKULTRA												3039058	
MKULTRA												121522	
EXPLANATION OF ENTRY										TOTALS		3302812 3302812	
See attached													
DATE	PREPARED BY	DATE	REVIEWED BY	CERTIFIED FOR PAYMENT OR CREDIT									
7/11/60				DATE	SIGNATURE OF CERTIFYING OFFICER								
				11/7/60									

~~SECRET~~

70-11

3 November 1960

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSD/Budget Officer

SUBJECT : MULTRA, Subproject No. 70 Invoice No. 4, Allotment 1125-1009-1902

1. Invoice No. 4 in the amount of \$33,028.12 covering the above subproject is attached. However due to refunds of \$1,422.00 from other projects (as per attachments) payment should be made as follows:

Cashier's check in the amount of \$30,390.50 drawn on a [redacted] payable to [redacted] — E B

Cashier's check in the amount of \$1215.62, drawn on a [redacted] payable to [redacted] — E B

2. Please forward the checks to Chief, TSD/Research Branch, through TSD/Budget Officer, no later than Thursday, 17 November 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.

[redacted] Chief TSD/Research Branch

A
814

Attachments: Invoice & Certifications

CHECK# 012557 RECEIVED THE AMOUNT OF \$1,215.62

Distribution: Orig & 2 - Addressee

[redacted] — A

1 - TSD/FASS

CHECK# 01258 RECEIVED THE AMOUNT OF \$30,390.50

[redacted] — A

~~SECRET~~

~~SECRET~~

70-11

(3) It is hereby certified that the program under Subproject 72 has been satisfactorily completed and returned unused funds. However, Subproject 70, which is still continuing also refunded money which was left over at cutout from previous grant. Therefore, it is requested that the amounts as shown below on Invoice No. 4 of Subproject 70 be credited to the subprojects as shown below.

<u>Project</u>	<u>Amount</u>	<u>MOR</u>	<u>Allotment</u>
#72	\$972.00	2768	7-2502-10-001
#70	450.00	571	0525-1009-4902

Chief, TSD/Research Branch

Date: _____

 A

Research Director

Date: _____

~~SECRET~~

~~SECRET~~

70-11

INVOICE

For Services

\$31,606.12

[REDACTED] - B

CERTIFICATIONS

(1) It is hereby certified that this is Invoice No. 4 applying to Subproject 70 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/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 70 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: _____

~~SECRET~~

~~SECRET~~

70-11

(3) It is hereby certified that the program under Subproject 72 has been satisfactorily completed and returned unused funds. However, Subproject 70, which is still continuing also refunded money which was left over at cutout from previous grant. Therefore, it is requested that the amounts as shown below on Invoice No. 4 of Subproject 70 be credited to the subprojects as shown below.

<u>Project</u>	<u>Amount</u>	<u>MOR</u>	<u>Allotment</u>
#72	\$972.00	2768	7-2502-10-001
#70	450.00	571	0525-1009-4902
	1,422.00		

Per

Chief, TSD/Research Branch

Date: _____

Research Director

Date: _____

~~SECRET~~

~~SECRET~~

70-12

TO: TSS/OC

1. Date of Obligation: _____
2. Purpose of Project: To conduct research
to define mechanisms involved in production
of involuntary sleep, and related unconscious
states.

3. Progress to Date: Satisfactory

4. Expiration Date: 31 September 1961

5. Project Monitor: ~~XXXXXXXXXX~~ A

FROM: TSS/XX RB

Room ~~XXXX~~ West Outbuilding, Ext. ~~XXXX~~
119 2292

~~SECRET~~

~~TOP SECRET~~

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

~~TOP SECRET~~

70-13

~~E2 IMPDET; CL BY ██████████~~ A

14 October 1960

MEMORANDUM FOR: THE RECORD

SUBJECT : MKULTRA, Subproject No. 70

1. The purpose of this subproject is to provide funds for continuation of research on the "K" (unconsciousness producing) problem.

2. There exists within the Agency a continuing requirement for highly potent, quick-acting substances that will render an individual helpless and immobile, preferably in an unconscious state. It is anticipated that this program will provide fundamental information needed for solution of this problem. The scope of this research program is intended to cover investigations on the mechanisms in which certain drugs induce anesthesia or narcosis, elucidate the basic mechanisms of action involved and uncover and evaluate materials which have value because of their potency, physical characteristics, and biological activity.

3. While information and materials available to date are inadequate to satisfy Agency requirements, there are model compounds which, because of their potency, biological activity, or

Downgraded to: ~~CONFIDENTIAL~~
by authority of: ~~██████████~~ A
date: June 1977

~~E2 IMPDET; CL BY ██████████~~ A

~~TOP SECRET~~

Downgraded to: CONFIDENTIAL

by authority of: ~~_____~~ A

date: June 1977

ES IMPDET; CL BY ~~_____~~ A

~~TOP SECRET~~

70-13

chemical characteristics, permit a prediction that an adequate research program stands a good chance of developing an understanding of the mechanisms and should result in the development of a material suitable for operational use.

4. The ~~_____~~ will serve as cut out and cover for this subproject. The necessary research and development will be conducted through ~~_____~~ who will submit to the ~~_____~~ a summary accounting of funds received from the foundation and will return any unused funds remaining at the conclusion of the program.

The estimated cost of the work for a period of one year is \$31,812.50.

To this sum must be added a four per cent service charge for the

~~_____~~ amounting to \$1,272.48, making the total cost of this program \$33,084.98.

5. Total cost of the project for one year will not exceed \$33,084.98. Charges should be made against Allotment No. 1525-1009-1902.

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

7. Documentation and accounting for travel expenses which are reimbursable by ~~_____~~ will conform to the ac-

Downgraded to: CONFIDENTIAL

by authority of: ~~_____~~ A

date: June 1977

ES IMPDET; CL BY ~~_____~~ A

~~TOP SECRET~~

B

~~TOP SECRET~~

70-13

~~CONFIDENTIAL~~
by authority of: ~~_____~~
date: June 1977
ES INFDET; CL BY ~~_____~~

cepted practices of that organization.

8. The requirement for a semi-annual informal accounting on the part of the investigator is (waived).

9. All personnel connected with the planning and monitoring of results of this program possess TOP SECRET approval. The project is unclassified after it leaves the ~~_____~~ -B

~~_____~~ -B

~~_____~~ -A

Chief
TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS:

~~_____~~

Date: _____

Research Director

Attachment:
Proposed Budget

Distribution:
Original only

Downgraded to: CONFIDENTIAL
by authority of: ~~_____~~ A
date: June 1977
ES INFDET; CL BY ~~_____~~ A

~~TOP SECRET~~



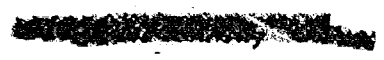
B

70-14

RESEARCH PROPOSAL

It is proposed to continue basic research on sleep and unconsciousness along the lines laid down by the Sponsor and his technical consultants. The principal investigator will exert his best efforts in conducting research to define the mechanisms underlying production of involuntary sleep and to differentiate the mechanisms involved in the production of this form of unconsciousness from other states of unconsciousness or related behavior. Because of the generally poor state of knowledge in this area of work and furthermore, because of the peculiar requirements of the Sponsor as distinguished from the usual medical requirements, it is understood that the major framework of the research design for this work will be provided by the Sponsor.

Reports will be rendered on progress of such studies and investigations as significant advances are accomplished.



B

WARNING NOTICE
 SENSITIVE INTELLIGENCE
 SOURCES AND METHODS INVOLVED

70-14

ESTIMATED BUDGET

SALARIES:

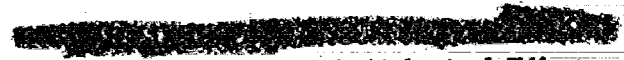
Bio-Chemist	\$10,000.00
Pharmacologist	7,500.00
Animal Caretaker	1,000.00
OASI State-Unemployment Ins.	1,850.00
Supplies and Expendable Materials	2,000.00
Animals and Feed	2,000.00
Reproduction services	600.00
Travel	500.00
Sub-total	<u>\$25,450.00</u>
Overhead (25% of total)	<u>6,362.50</u>
TOTAL	<u>\$31,812.50</u>



470

70-14

B



B

Grant for : Neurophysiological Effects of Sedative Agents

Financial Statement
June 1, 1958 to July 1, 1959

Funds received 25,422.00

Expenditures :

Wages & salaries	19,800.00
Equipment	1,543.86
Supplies	1,048.61
Overhead	<u>3,134.94</u>

Total expenditures : 25,527.41

Balance July 1, 1959 (Deficit) (\$ 105.41)

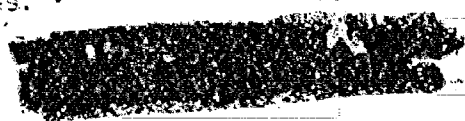


C

Accountant

July 2, 1959

I have examined and approved the amsitted
expenditures.



A

dated 12/7/59

70-19
70



B

B



Grant for: Research on Sleep and Unconsciousness

Amount of Grant ----- \$30,900.00

Expenditures

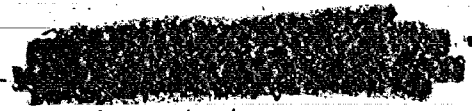
Salaries and Wages	\$12,824.60
Materials and Supplies	9,212.97
Travel	753.92
Services	3,265.94
Social Sec., Ins, etc.	1,636.42
Overhead	3,206.15
	<hr/>
	30,900.00

30,900.00

Balance -----

A

I have reviewed the account and find the expenditures correct.



Accountant

10/17/60

~~SECRET~~

(When Filled In)

70-14

No. 514

Cost Account 1185-109-1902

Object Class _____

Date	Remarks and References	Obligations Incurred	Obligations Liquidated	Unliquidated Balance
27 OCT 1960	Mkultia Sub 70 Cont #3	33,084.98		33,084.98
3 NOV 1960	Inv #4		33,028.18	

~~SECRET~~

(When Filled In)

14 October 1960

MEMORANDUM FOR: COMPTROLLER

ATTENTION : Finance Division

SUBJECT : MKULTRA, Subproject No. 70
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 70 has been approved and \$33,084.98 of the over-all MKULTRA project funds has been obligated to cover the subproject expenses. This obligation of funds should be charged to Allotment 1525-1009-1902.

~~_____~~ A
Chief
TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS:

~~_____~~ A
Research Director

I CERTIFY THAT FUNDS ARE AVAILABLE
OBLIGATION NUMBER: 814
CHARGE TO ALLOTMENT: 1525-1009-1902

Date: _____

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

TSD/RB/ (14 Oct. '60)

~~SECRET~~

27 January 1960

MEMORANDUM FOR: THE RECORD

SUBJECT: Action on MKULTRA Audit Exceptions - TSS/CD

SP#70

B

The \$450.00 balance, expenditure of which was unaccounted for in this folder, is being held in the [redacted] account and will be returned.

B

[redacted]

A

Chief
TSS/Chemical Division

18 July 1960

Recent technical developments and the continuing availability of adequate research facilities, along with the increased pressure on the production of a practical end product related to this project, indicate that there will be a continuing and probably increased effort in this area. In view of this, it has been decided that the funds mentioned above will be retained for use in connection with the next re-financing of this project, rather than being carried over to some other subproject by the usual procedure. This project will, as presently scheduled, be refinanced on a continuing basis in October 1960.

[redacted]

A

Chief
TSD/Research Branch

~~SECRET~~

~~SECRET~~

70-17

30 October 1959

MEMORANDUM FOR: THE RECORD

SUBJECT : MKULTRA No. 70

The following endorsed and cancelled checks (photostat copies) issued by the [redacted] are applicable to MKULTRA No. 70. They are for salary expenditures on this subproject and are held in lieu of formal receipts which were not requested. The [redacted] does not normally require receipts for salary checks which endorsed, cashed, or deposited constitute acknowledgment of payment.

#AC-1	Aug 13, 1957	\$1500
#105	Oct 1, 1957	\$1500
#114	Jan 2, 1958	\$1500
#122	Apr 1, 1958	\$1500
Total		\$6000

[redacted] - A
 Chief
 TSS/Chemical Division

Distribution:
 Orig only.

70-18

September 30, 1959

[REDACTED] -B

Gentlemen:

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

Cashier's Check No. A80635 drawn on the [REDACTED] for \$30,900.00.

Treasurer's Check No. 242235 drawn on [REDACTED] for \$1,236.00.

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

Yours, truly,

Encl.

No. 571

Cost Account 0525-109-4902

Object Class

Date	Remarks and References	Obligations Incurred	Obligations Liquidated	Unliquidated Balance
25 SEP 1959	Jul. 70	32,136.00		32,136.00
25 SEP 1959	Jul. 70 30,900 Jul. 73 1,236		32,136.00	
	Lif.			

~~SECRET~~

70-19

23 September 1959

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

SUBJECT : MKULTRA, Subproject 70, Invoice #3
Allotment 0525-1009-4902

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

Cashier's check in the amount of \$30,900.00,
drawn on a [REDACTED] payable to [REDACTED] - B

Cashier's check in the amount of \$1,236.00,
drawn on a [REDACTED] payable to [REDACTED] - B

2. Please forward the checks to Chief, TSS/Chemical
Division, through TSS/Budget Officer, no later than Wednesday,
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
TSS/Chemical Division

Attachments:

Invoice & Certifications

CHECK # 4863 IN THE AMOUNT OF \$30,900.00
RECEIVED 30 SEP 1959

Distribution:

Orig & 2 - Addressee

CHECK # 24223 IN THE AMOUNT OF \$1,236.00
RECEIVED 30 SEP 1959

13204

70-19

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 FUN D	45-46 PAY PER. LIG. 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 ----- OBJECT CLASS	71-80 AMOUNT	
DESCRIPTION- ADVANCE ACCOUNTS 13-27									29-33 T/A NO. P.O. NO. ----- 32-33 OST	PROF. NO. ----- PROJECT NO.		82-87 CR. NO. ----- I REF. NO.	DEBIT
<i>[Faint handwritten text]</i>													
<i>[Faint handwritten text]</i>													<i>30,000.00</i>
<i>[Faint handwritten text]</i>													<i>1,500.00</i>
EXPLANATION OF ENTRY											TOTALS		
<i>[Handwritten signature]</i>													
DATE		PREPARED BY			DATE		REVIEWED BY			CERTIFIED FOR PAYMENT OR CREDIT			
										DATE		SIGNATURE OF CERTIFYING	
												<i>[Handwritten signature]</i>	

PAID
APR 25 1951

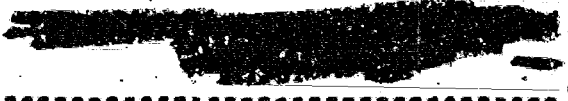
~~SECRET~~

70-19

INVOICE

For Services

\$32,136.00



CERTIFICATIONS

(1) It is hereby certified that this is Invoice #3 applying to Subproject 70 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 70 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: _____

~~SECRET~~

B

cut out and cover for this subproject. The necessary research and development will be conducted by [redacted] who will submit to the [redacted] a summary account-

ing of funds received from the foundation and will return any unused funds remaining at the conclusion of the program. The estimated cost of the work for a period of one year is \$30,900.00. To this sum must be added a four per cent service charge for the [redacted] - B

B

[redacted] amounting to \$1,236.00 making the total cost of this program \$32,136.00.

5. Total cost of the project for one year will not exceed \$32,136.00. Charges should be made against Allotment No. 0525-1009-4902.

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

7. Documentation and accounting for travel expenses which are reimbursable by [redacted] will conform to the accepted practices of that organization. B

8. The requirement for a semi-annual informal accounting on the part of the principal investigator is waived.

A

70-24

REF ID: A62852; CL BY: [redacted]

9. All personnel connected with the planning and monitoring of results of this program possess TOP SECRET approval. The project is unclassified after it leaves the [redacted]

APPROVED FOR OBLIGATION OF FUNDS:

APPROVED:

[redacted]
Research Director

[redacted]
Chief
TSS/Chemical Division

Date: 9/21/59

Attachment:
Proposed Budget

Distribution:
Original only

70-20

PROPOSED BUDGET

Salaries	\$22,500.00
Overhead (20% of salaries)	4,500.00
Supplies and materials	2,400.00
Services	1,000.00
Travel	500.00
	\$30,900.00

~~SECRET~~

70-21

18 September 1959

MEMORANDUM FOR: COMPTROLLER

ATTENTION : Finance Division

SUBJECT : MKULTRA, Subproject 70, *Additional Authorization # 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 70 has been approved and \$32,136.00 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.


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/  (18 Sept '59)

OFFICE OF CONTROLLER

Financial Statement
July 1, 1957 to June 30, 1958

Funds received

\$15,390.00

Expenditures:

Salaries	\$10,164.54
Animal Houses	2,731.19
General Supplies	567.88
Travel and Honorarium	85.00
Overhead	1,890.00

Total Expenditures

15,438.61

Balance June 30, 1958 (Deficit)

(\$ 48.61)

June 23, 1959

Assistant Controller

I have examined and approved the submitted expenditures.

Chief
TSS/Chemical Division

Date: 11/7/59

70-23

MEMORANDUM FOR THE RECORD

SUBJECT: Request for Authorization of Change, MKULTRA #70

1. Authorization to use outside laboratory facility requested by letter 9 June 1958 from [REDACTED] received 11 June 1958. - B

2. Verbal authorization granted (by telephone) 12 June 1958.

[REDACTED] - A

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

[REDACTED]

B

[REDACTED]

B

[REDACTED]

B

[REDACTED]

H

June 9, 1958

B

B

B

In view of the fact that [REDACTED] is moving from [REDACTED] down to [REDACTED] in the first part of the coming year, and the resultant limitation of space and curtailment of activities, it is requested that authorization be given by you to the Foundation to have the second year of research activities on the part of [REDACTED] be placed in an outside laboratory facility.

B

BCX

A letter from [REDACTED] requesting the change is attached hereto for your perusal. There are no objections on the part of the Foundation to the change.

Kindly notify us at your earliest convenience of your decision.

Sincerely yours

[REDACTED]

Executive Secretary - Treasurer

C

[REDACTED]

WARNING NOTICE

SENSITIVE INTELLIGENCE

SOURCES AND METHODS INVOLVED

70-25

MEMORANDUM FOR: The Record

SUBJECT : Authorization for Facility Change, MKULTRA #70

1. By letter dated 5 June 1958 from [REDACTED] -B
[REDACTED] request was made for permission to use outside facilities
to continue second year of research.

2. Verbal authorization for requested change in facility was
granted 9 June 1958.

[REDACTED] -A

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

70-26

B

B

B

June 5, 1958

Dear Sirs :

B

B

As you know, the [redacted] is moving from [redacted] down to [redacted] in the early part of the coming year. On a phasing out schedule, many of the Departments, including Neurology, are to commence moving of facilities and personnel starting January 1959. You can not imagine the chaos and turmoil already in progress. For all intent and purpose, I would say that any productive work would not be forthcoming for the next two, if not three, years.

Since the completion of the new medical school is behind schedule, it would be difficult to predict when adequate space will be available for all the different departments. It has already been determined that doubling up of both research and clinic space will be the order of the day.

As an interim procedure, many of the research sections have looked to the use of outside laboratory facilities to fill the gap that will exist at school. The University recognizes the urgent need and necessity of outside facilities and will authorize the use of same.

In order to conduct my activities in a smooth and orderly fashion, I would like permission to place my second year of research in an outside laboratory facility, namely, [redacted]. Preliminary discussions with the Dean of the Medical School show no objections on his part to the use of the facility.

If the relocation of the research project is acceptable, please notify me at the earliest opportunity. Your support has been greatly appreciated.

Yours truly,

[redacted signature]

Associate Clinical Professor

C

C

70-27

29 May 1958

B



Gentlemen:

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

Check #209-333085 drawn on [redacted] for \$25,422.00 — E

Check #78 12465 drawn on [redacted] for \$945.24 — 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,

Encl.

70-28

13 May 1958

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

SUBJECT : MULLIRA, Subproject 70, Invoice #2
Allotment 7-2502-10-001

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

Cashier's check in the amount of \$25,422.00,
drawn on a [redacted] payable to [redacted] - B

Cashier's check in the amount of \$945.24,
drawn on a [redacted] payable to [redacted] - B

2. Please forward the checks to Chief, TSS/Chemical Division, through TSS/Budget Officer, no later than Wednesday, 28 May 1958.

3. This invoice represents the total amount currently authorized under Subproject 70. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

[redacted] - A
TSS/Chemical Division

Attachments:
Invoice and Certifications

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

I CERTIFY THAT FUNDS ARE AVAILABLE:
ORIGINATION REFERENCE NO. 3765
ALLIANCE TO ALLOTMENT NO. 7-2502-10-001
CHECK # 781-163 THE AMOUNT OF \$ 25,422.⁰⁰
28 MAY 1958

[redacted] - A
RECORDED 49-33315
MAY 28 1958

70-28

INVOICE

For services

\$26,367.24

B

CERTIFICATIONS

(1) It is hereby certified that this is Invoice #2 applying to Subproject #70 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.

Chief, TSS/Chemical Division

Date:

(2) It is hereby certified that this invoice applies to Subproject #70 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:

70-29

28 August 1957

B

[REDACTED]

Gentlemen:

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

Check #65313 drawn on the [REDACTED] for \$21,840.00 25,422.00

Check #42774 drawn on the [REDACTED] for \$945.24 945.24

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

Yours truly,

E

E

[REDACTED] B 70-30 [REDACTED]
[REDACTED] B [REDACTED]

September 11, 1957

[REDACTED] B

This is to acknowledge the receipt of the following checks :

Check #65313 drawn on the [REDACTED] - E
for \$21,840.00

Check #42774 drawn on the [REDACTED] - E
for \$945.24

Your generous contributions are greatly appreciated. The funds will be utilized by our Board of Directors in furthering worthwhile research projects in the field of medical sciences.

Yours truly,

[REDACTED] - C

[REDACTED] C

POST OFFICE DEPARTMENT
OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE \$300

[REDACTED]

POST OFFICE
PRAY
FOR
PEACE

INSTRUCTIONS.—Show name, address and number of article below. Complete "Instructions To Delivering Employee" on other side, when applicable. Moisten back of card and securely attach to back of article. Enclose front of article. RETURN RECEIPT REQUESTED.

RETURN TO

REGISTERED NO. [REDACTED]
CITY, ZONE, AND STATE [REDACTED]

~~SECRET~~

70-31

2 August 1957

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA TSS/Budget Officer

SUBJECT MKULTRA, Subproject 70, Invoice #1
Allotment 7-2502-10-001

1. Invoice #1 covering the above subproject is attached. Other invoices will follow. It is requested that payment be made as follows:

Cashier's check in the amount of \$21,840.00 drawn on a [redacted] payable to [redacted] -B

Cashier's check in the amount of \$945.24 drawn on a [redacted] payable to [redacted] -B

2. The check should be forwarded to Chief, TSS/Chemical Division, through TSS/Budget Officer, no later than Friday, 16 August 1957.

Acting Chief
TSS/Chemical Division

Attachments:
Invoice and Certifications

Distribution:
Orig & 2 - Addressee
1 - Comptroller

✓ - TSS/FASB
2 - TSS/CD

~~SECRET~~

H/C
[Handwritten signature]
A - [redacted]

~~SECRET~~

70-31

INVOICE

For services

\$22,785.24

~~SECRET~~ - B

CERTIFICATIONS

(1) It is hereby certified that this is Invoice #1 applying to Subproject #70 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.

Acting Chief, TSS/Chemical Division

Date:

(2) It is hereby certified that this invoice applies to Subproject #70 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~~

70-32

4 June 1957

MEMORANDUM FOR: THE RECORD

SUBJECT: Assignment of One IBM Electric Typewriter to MKULTRA Subproject 70

1. One IBM electric typewriter, No. 151957 (reclaimed from MKULTRA Subproject 57 upon its termination on 31 May 1957) has been assigned for use to MKULTRA Subproject No. 70.

2. Receipt is hereby acknowledged of one typewriter (IBM Electric) No. 151957 on 1 June 1957. The typewriter will be physically located in the [REDACTED]

-B

[REDACTED]

-A

Branch II
TSS/Chemical Division

Distribution:
Orig & 2 - TSS/CD

TSS/CD [REDACTED] (4 June 1957)

A

~~SECRET~~

70-33

NO. 2765

REPORT 1. 2502-10-001

- 70 -

DATE	REMARKS AND BALANCE	OBLIGATIONS INCURRED	OBLIGATIONS LIQUIDATED	BALANCE
19 JUL 1957	<i>Authorization</i>	<i>47,572.18</i>		<i>47,572.18</i>
16 AUG 1957	<i>Draw #1</i>	<i>21541.00</i>	<i>22,785.34</i>	<i>26,367.24</i>
15 MAY 1958	<i>Draw #2</i>	<i>25437.12</i>	<i>26,367.34</i>	

~~SECRET~~

70-34

1 May 1957

MEMORANDUM FOR: THE COMPTROLLER

ATTENTION: Finance Division

SUBJECT: MKULTRA Subproject 70

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 70 has been approved, and \$49,152.48 of the over-all Project MKULTRA funds have been obligated to cover the subproject's expenses and should be charged to Allotment 7-2502-10-001.

SIDNEY GOTTLIEB

Chief

TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS:

[Redacted signature] A

RECEIVED... 7-2502-10-001

Research Director

Date:

MAY 31 1957

Distribution:

Orig & 2 - Addressee

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

TSS/CD: [Redacted] (1 May 1957)

~~SECRET~~

A

H/C

[Redacted]

1045

1 JUL 1957

2 IMPDET; CL BY [REDACTED]

MEMORANDUM FOR: THE RECORD

SUBJECT: MKULTRA Subproject 70

1. The purpose of Subproject 70 is to initiate research work on the "K" (Knockout) Problem at the [REDACTED]

2. The scope of the research program is outlined in the attached research proposal. There exists within the Agency a continuing requirement from the Operating Divisions for a substance or substances that will render an individual or animal helpless and immobile, either consciously or unconsciously, until definite control measures can be instituted. It is envisioned that this program will supply some of the answers so sorely needed.

3. It is expected that [REDACTED] will monitor and direct and actively participate in this project as principal investigator from the [REDACTED] where arrangements have been made for his appointment as an [REDACTED]

4. In view of the magnitude and scope of the project, it is felt that a two-year period is required for realization of some answers to this intricate and complex problem. Therefore, a two-year research proposal is attached. The cost of this program is estimated at \$21,840.00 for the first year; \$25,422.00 for the second year; for a total of \$47,262.00. To this sum must be added \$1,890.48 representing a four percent service charge to the [REDACTED] making the total amount for two years \$49,152.48. The Foundation will function as cutout and cover for this grant. The cover title of the project is [REDACTED] and is presumably being supported by a research grant from the Foundation.

5. The total cost of the project for a period of two years will not exceed \$49,152.48. Charges should be made against Allotment 7-2502-10-001.

by authority of: ~~TOP SECRET~~
date: June 1977

70-34

~~TOP SECRET~~; CL BY ~~TOP SECRET~~

6. The Foundation has requested the University to submit a summary accounting of monies received and to return any unexpended grant funds at the end of the project year.

7. Title to any permanent equipment purchased by funds granted the University shall be retained by them in lieu of higher overhead rates.

8. It was mutually agreed that documentation and accounting for travel expenses which are reimbursable by the University shall conform with the accepted practices of that institution.

9. The requirement for a six months' informal accounting on the part of the principal investigator is waived.

10. ~~TOP SECRET~~ is cleared through TOP SECRET and is aware of the true purposes of the program. Also, he has agreed to comply with the requirements of the Memorandum of Agreement.

~~TOP SECRET~~ - A

Chief, Branch II
TSS/Chemical Division

APPROVED FOR OBLIGATION
OF FUNDS:

Approved:

A

~~TOP SECRET~~

~~TOP SECRET~~ - A

Research Director.

Chief, TSS/Chemical Division

Date: 3 MAY 1957

Attached:
Research proposal

Distribution:
Original only

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

~~TOP SECRET~~; CL BY ~~TOP SECRET~~ - A

Downgraded to: CONFIDENTIAL A

by authority of: [REDACTED]

date: June 1977

THE "K" PROBLEM

70-35

BE IMPDET; CL BY [REDACTED] A

There exists within the Agency a continuing requirement from the Operating Divisions for a substance or substances that will render an individual or animal helpless and immobile, either consciously or unconsciously, until definite control measures can be instituted. The instances and situations where such an advantage can be utilized are too numerous to be mentioned. Within TSS/CD this problem has been designated the "K" (Knockout) Problem.

From various sources (scientific literature, TSS/CD projects, etc.) numerous bits of disjointed information have been accumulated in this area. Many provocative suggestions were raised that warrant further investigation. To date, there are no active projects or individuals specifically established by TSS/CD for the investigation of this problem. Therefore, this project was designed for the purposes of centralizing all efforts in this field, consolidating the existing data, and initiating active research on some of the many existing provocative suggestions.

The project will be established within the [REDACTED] - B

[REDACTED] Initially, the research activity will be divided as follows:

I. The Experimental Evaluation of Sedative Agents

A. Tick Paralysis

Certain species of ticks (genus Dermacentor) have been incriminated in a clinical syndrome commonly referred to as "tick paralysis". This syndrome occurs in both man and animals. It results from a tick bite, and is characterized by ascending flaccid paralysis of the musculature. Removal of the tick is usually followed by complete and rapid spontaneous recovery. The etiology of tick paralysis remains obscure. The disease is believed to result from the inoculation of some unidentified tick-generated, toxic substance which appears to be neurotropic.

As a by-product of Project Naomi, a sizeable amount of this neurotropic toxic substance is being isolated. The development and experimental evaluation of this substance as a sedative agent will be carried out within the scope of this "K" Problem project.

Downgraded to: CONFIDENTIAL A

by authority of: [REDACTED] A

date: June 1977

BE IMPDET; CL BY [REDACTED] A

70-35

E2 IMPDET; CL BY ~~██████████~~ B. Narcotic Effect of Fatty Acids

As a result of preliminary investigations carried out within MKULTRA Subproject 57 (terminated 31 May 1957), it was found that the parenteral administration of fatty acids induced a state of unconsciousness in small animals which when examined by electroencephalogram techniques turned out to be similar to ordinary sleep. The length of narcosis varied with the dose of the fatty acid administered. Of extreme interest is the fact that fatty acids, unlike other narcotic agents, are normal constituents of the diet and body tissues.

Investigation will be carried out on:

1. Mechanism of fatty acid narcosis,
2. Effective modes of administration other than parenteral, i.e. oral, respiratory,
3. Additional fatty acids - short or long chain, saturated and unsaturated.

C. Assay of New Sedative Agents

The methods usually employed for the assay of sedative drugs are not specifically directed toward the evaluation of sedative activity although all methods utilize one or another of the characteristics of "sleep" as the criterion of effect. In the absence of a pharmacological definition of sleep, evaluation of sedative action has been conducted at different levels of this state, ranging from sleep itself to hypnosis, and even to general anesthesia. It is apparent that the criteria or endpoints employed in such evaluations have either overshot the target of sedation or have not bracketed it adequately. This then leads to a state of general confusion in the evaluation of the newer sedative agents.

To utilize effectively the sedative agents available, both tested and untested, requires the development of a systematic method of testing and systematic method of characterizing the drug, both in terms of the symptomatology produced and in terms of describing potency in producing given effects by means of standardized and valid statistical procedures. An objective report will be designed that will attempt to standardize the reporting procedure for all TSS/CD research

by authority of: [REDACTED] A
date: June 1977

70-35

E2 IMPDET; CL BY [REDACTED] projects employing animal experimental procedures.

II. Incapacitating Agents

As a result of animal testing procedures, a number of centrally acting skeletal muscle relaxants have been found. Several are or have been evaluated clinically in man with varying results. Occasionally, clinical reports appear claiming that certain pharmacological agents that have minimal muscle relaxant effects in some experimental animal preparations produce dramatic relief of spasticity in man. Clinical impressions are the usual criteria of effectiveness.

There exists within the [REDACTED] B
[REDACTED] the opportunity for clinical evaluations of some centrally acting skeletal muscle relaxants on the therapeutic relief of spasticity in man.

Downgraded to: CONFIDENTIAL
by authority of: [REDACTED] A
date: June 1977

E2 IMPDET; CL BY [REDACTED] -A

Downgraded to ~~CONFIDENTIAL~~
by authority of: ~~_____~~
date: Jun 1977

70-35 70-35
FJB

IMPDET; CL BY ~~_____~~

BUDGET

First year

Neurophysiologist (M.D.)	6,000.00
Research associate (Ph.D.)	4,000.00
Lab technician	3,000.00
Lab assistant and secretary	3,000.00
Equipment, apparatus	2,500.00
Supplies, expendables	<u>1,000.00</u>

\$19,500.00

University overhead (14%)

2,340.00

\$21,840.00

Second year

Neurophysiologist (M.D.)	7,000.00
Research associate (Ph.D.)	4,500.00
Lab technician	3,300.00
Lab assistant and secretary	3,200.00
Equipment, apparatus, etc.	1,500.00
Supplies, expendables, animals	1,000.00
Animal keeper	<u>1,800.00</u>

\$22,300.00

University overhead (14%)

3,122.00

\$25,422.00

Downgraded to ~~CONFIDENTIAL~~
by authority of: ~~_____~~
date: Jun 1977

IMPDET; CL BY ~~_____~~

~~CONFIDENTIAL~~