

THE BLACK VAULT

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CERTIFICATION

This is to certify that we have the final accounting for grants made to MEULTRA Sub-Project 70. The accounting is being retained in TSD where it may be reviewed by the Certibying 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 suthorized by the project approval.

Chief Scientist, TSD

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Chief Scientist, TSD

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11 June 1964

MEMORANDUM FOR : THE RECORD

SUBJECT

MULTRA Subprojects 70, 91, 94 and 135

Since the completion of the audit of Project MULTA for the period

1 August 1960 through 31 January 1963, accountings have been received

from the since the since the secount of \$93,677.50. This amount
is part of the \$153,117.93 balance to be accounted for by the secount of the succession of the secount of the second of th

Subproject 70 incurred direct costs of \$2,518.34 and \$27,872.15 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 direct the funds for Subproject 135 to Subproject 91, therefore these costs were included in the accounting from Subproject 91.

Innersch 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 grantee, 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 and and of the Audit

Chief Scientist, TED



80	COUNTING	BY INDIVIDUAL	SUBMITTED BY		Sub 70		-	VOUCHER NO). (Finance use	only)
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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)	 : <u>:</u>	27,872.16
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FORM 10-59 606 USE PREVIOUS EDITIONS.

CONTRACTOR

10-401

3 November 1960

MEMORANDIM FOR: CHIEF, FINANCE DIVISION

AIY

1 TSD/Budget Officer

SUBJECT

MO. 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 Edrawn on a first that the amount of \$30,390.50

Cashier's check in the ascent of \$1215.62, drawn on as the same payable to

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.

Chief
T3D/Research Branch

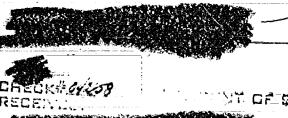
Attachments: Invoice & Certifications

CHECK# MASS

'NT OF 5/20,62

Distribution:
Orig & 2 - Addressee

1 - TSD/FASS



 Δ

JUNE 1

(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.

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

Chief, TSD/Research Branch

Date:



Research Director

Date:

-Vel-

•	INVOICE	
For Services		\$31,606.12
		-B
	CERTIFICATIONS	
to Subproject 70 of MS that services are being agreements, that a deti	ified that this is Involu ULTRA, that performance of g accomplished in accord- ailed agends of the payment at this bill is just and t yet been made.	is satisfactory, ance with mutual ents and receipts
:		e*
	Chief, TSD/Re	search Branch
70 under MULTRA which being carried out in a	ified that this invoice of vas duly approved and to coordance with the memorate DD/A, and the extension.	hat the project is andum dated 13 April
•	Rosearch Di	rector
Date:		

9-10-16

(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.

Project	Amount	MOR	Allotment
1 13	\$972.00	2768	7-2502-10-001
# 70	450.00	571	0525+1009-4902
	1.427.00	7	

Chief, TSD/Research Branch

Date:	_			
			Research	Directo
Date:		,		



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TO: 155/0C	
l. Date of Obligation:	
2. Purpose of Project: To conduct	research
to define mechanisms involved in p	
of involuntary sleep, and related un-	ALL AND ADDRESS OF THE PARTY OF
of involuntary sleep, and related un-	COURCION
states.	
And the second s	
3. Progress to Date: Satisfactor	Y
• 6	
4. Expiration Date: 31 September 1	961
	- k
5. Project Monitor:	
FROM:_TSS/&X RB	
Room XXXX West Outbuilding, Ext.	XXX
	2292
C-Deff T	

Downgraded to: CAMPIDENTIAL by authority of: date: Lee 1977

EN IMPDET; CL BY

14 October 1960

MEMORANDUM FOR	R: THE RECO	RD	
•			•
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:

ES IMPDET; CL BY

TOP SECRET

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.

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.

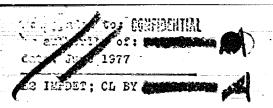
To this sum must be added a four per cent service charge for the amounting to \$1,272.48, making the total cost of this program \$33,084.98.

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-

Downgro od to: GONFIDENTIAL by authorit of: date: June 1977

TOP SECRET



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



TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS: Research Director

Attachment: Proposed Budget

Distribution: Original only



RESEARCH PROPOSAL

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

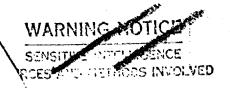
requirements of the Sponsor as distinguished from the usual medical

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.







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	\$25,450.00
Overhead (25% of total	6,362,50
TOTAL	\$31,812,50 (2000)



B

Grant for: Neurophysiological Effects of Sedative Agents

Financial Statement
June 1, 1958 to July 1, 1959

Funds received

25,422.00

Expenditures:

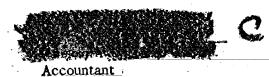
Wages & salaries	19,800.00
Equipment	1,543.86
Supplies	1,048.61
Overhead	3,134.94

Total expenditures:

25,527.41

Balance July 1, 1959 (Deficit)

(\$ 105.41)



July 2, 1959

I have examined and approved the muchithed .

expenditures.



Diminia.

Step 19/7/59

B

Grant for: Research on Sleep and Unconsciousness

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

Excenditures:

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

30,900.00

30,900.00

Balance ----

and the second second second second second

Accountant

Vale.

(When Filled In)

Cost Account _1/85 - 1/09 - 1902

Object Class

Date	• Remarks and References	Obligations Incurred	Obligations Liquidated	Unliquidated Balance
27 ocr 1960	mkultia Sub 10 auth #3	33,084.98		33,084.88
3 1960 1960	In 1/		33,028.12	

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(When Filled In)

14 October 1960

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MEMORANDUM	FOR: COMPTROLLER	
attention	Finance Division	
Subject	Additional Author	project No. 70 rization No. 3
Under ti	e anthority granted in th	e memorandum dated
13 April 1953 fr	om the DCI to the DD/A,	and the extension of
this authority is	subsequent memoranda	, Subproject 70 has
been approved a	nd \$13,084.98 of the ove	er-all MKULTRA pro-
•	een obligated to cover th	
ject funds bas b	• .	e subproject expenses.
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Distribution:

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TSD/RB/ (14 Oct. '60) SLUICI



SECON

27 January 1960

MEMORANDUM FOR: THE RECORD

SUBJECT

: Action on MKULTRA Audit Exceptions - TSS/CD

SP#70

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

The second second

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.

Chief

TSD/Research Branch

SECRET

30 October 1959.

MEMORANDUM FOR: THE RECORD

SUBJECT: MKULTRA No. 70

The following endorsed and cancelled checks (photostat copies) issued by the 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 does not cormally 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



Chiei
TSS/Chemical Division

Distribution:
Orig only.

September 30, 1959



Gentlemen:

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

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

Treasurer's Check No. 242235 drawn on 10 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.

70-18

SECRET

No. ____

Cost Account _

0525-1108-4902

Object Class

Date	Remarks and References	Obligations Incurred	Obligations Liquidated	Unliquidated Balance
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25 1959	Su. 91 1,236	Section 1 Sectio	33136.0	• 200
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SECRET



23 September 1959

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

AIA:

: TSS/Budget Officer.

SUBJECT

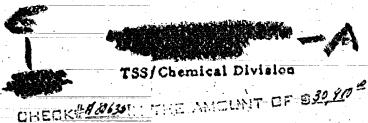
MKULTRA, Subproject 70, Invoice #3 Allotment 0525-1009-4902

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

> Cashler's check in the amount of \$30,900.00, drawn on a management payable to

Cashier's check in the amount of \$1, 236.00, drawn on a state payable to the THE PARTY OF THE P

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



Attachments:

CHECK HOUSE

Invoice & Certifications

Distribution:

Orig & 2 - Addre

DUNT OF 542360

13204

CONFIDENTIAL FUNDS POSTING VOUCHER VOUCHER NO. 7-12 DATE 2-6 VOUCHER NO. 7-12 34-39 STATION CODE 47.52 56-67 68.70 DESCRIPTION- ALL OTHER ACCOUNTS 13-33 71-60 40-42 ALLOT, OR COST ACCT, NO. OBLIG. REF. NO. 54-57 DUE . AMOUNT 20-33 1/A NO. PAY EXPEND DATE v GENERAL PER. DESCRIPTION-CODE CA LEDGER 52.67 CK. NO. APYANCE. PROP. NO. LEO. ADVANCE ACCOUNTS 13-27 OBJECT YR ACCT. NO. DE 8 1 T CREDIT 32.33 PRO JECT NO. CODE EMP. NO. CLASS X REF. NO. 36.7667 EXPLANATION OF ENTRY TOTALS CERTIFIED FOR PAYMENT OR CREDIT DATE PREPARED BY DATE REVIEWED BY SIGNATURE OF CERTIFYING DATE (10-49) SECRET 6-59 606 USE PREVIOUS EDITIONS.

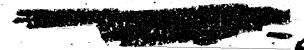
- (Vi...)

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 agends 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

Data:

(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

70-20

DRAFT
18 September 1959

MEMORANDUM FOR: THE RECORD

SUBJECT

: MKULTRA, Subproject 70

- 1. The purpose of this subproject is to provide funds for a continuation of research on the "K" (knock-out) 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 manner in which certain drugs induce anesthesia or narcosis, elucidate the mechanism of action of such compounds and uncover and evaluate materials which have potential 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 chemical characteristics, permit a prediction that an adequate research program stands a good chance of developing a material suitable for operational use.

4. The will serve as

Taked to: GMADENIA
Shority of:

Links

cost of this program \$32,136,00.

cut out and cover for this subproject. The necessary research and development will be conducted by 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 \$30,900.00. To this sum must be added a four per cent service charge for the amounting to \$1,236.00 making the total

- 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 will conform to the accepted practices of that organization.
- 8. The requirement for a semi-annual informal accounting on the part of the principal investigator is waived.

Downgraded to COMMENTAL
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	9. All personnel connected	d with the planning and monitoring	8 <u> </u>
••	of results of this program possess	TOP SECRET approval. The	
	project is unclassified after it lea	ves the	
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÷	:	TSS/Chemical Division	
	APPROVED FOR OBLIGATION	APPROVED:	
.	OF FUNDS:	APPROVED:	
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			San A
	Research Director	Chief	
	Date: 9/21/59	TSS/Chemical Division	
<u> </u>	Date: 1101/57		;
	Attachment:	on one and the first of	
	Proposed Budget	·	•
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Manufactures ()

10/20

PROPOSED BUDGET

Salaries		\$22,500.00	
Overhead (20% of salaries)		4,500.00	
Supplies and materials		2,400.00	
Services	<u> </u>	1,000.00	
Travel	a lala	500.00	
		\$30:900:00	



18 September 1959

MEMOR.	MUUNA	FOR	COMPT	ROL	LER
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ATTENTION : Pinance Division

SUBJECT

MKULTRA. Subproject 70, additional

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 memorands. Subproject 70 has been approved and \$32,136.00 of the ever-all MKULTRA project funds has been obligated to cover the subproject expenses. This

obligation of funds should be charged to Allotment 0525-1009-4902.



APPROVED FOR OBLIGATION

Research Director

Dates

Distribution:
Orig & 2 - Addresses

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

TSS/CD/ (18Sept'59)

9. 2. 3

OFFICE OF CONTROLLER

3 James Barre

Financial Statement
July 1, 1957 to June 30, 1958:

Funds received

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

Balance June 30, 1958 (Deficit)

15,438.61

(\$ 48.61)

June 23, 1959

Assistant Controller

I have examined and approved the submitted expenditures.

Chief

TSS/Chemical Division

Date: 1/7/54

MEMORANDUM FOR THE RECORD

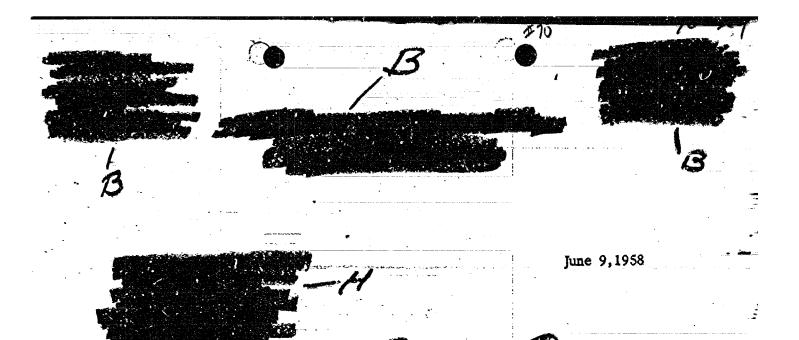
SUBJECT: Request for Authorization of Change, MKULTRA #70

1. Authorization to use outside laboratory facility requested by letter 9 June 1958 from the second

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



WARNING NOTICE
SENTING INTELLIGENCE
SOURCES AND METHODS INVOLVED



In view of the fact that

from thown to 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
be placed in an outside laboratory facihity.

A letter from 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,

Executive Secretary - Treasurer

WARNING NOTICE
ENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVE

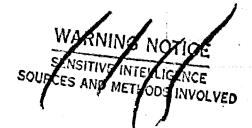
MEMORANDUM FOR: The Record

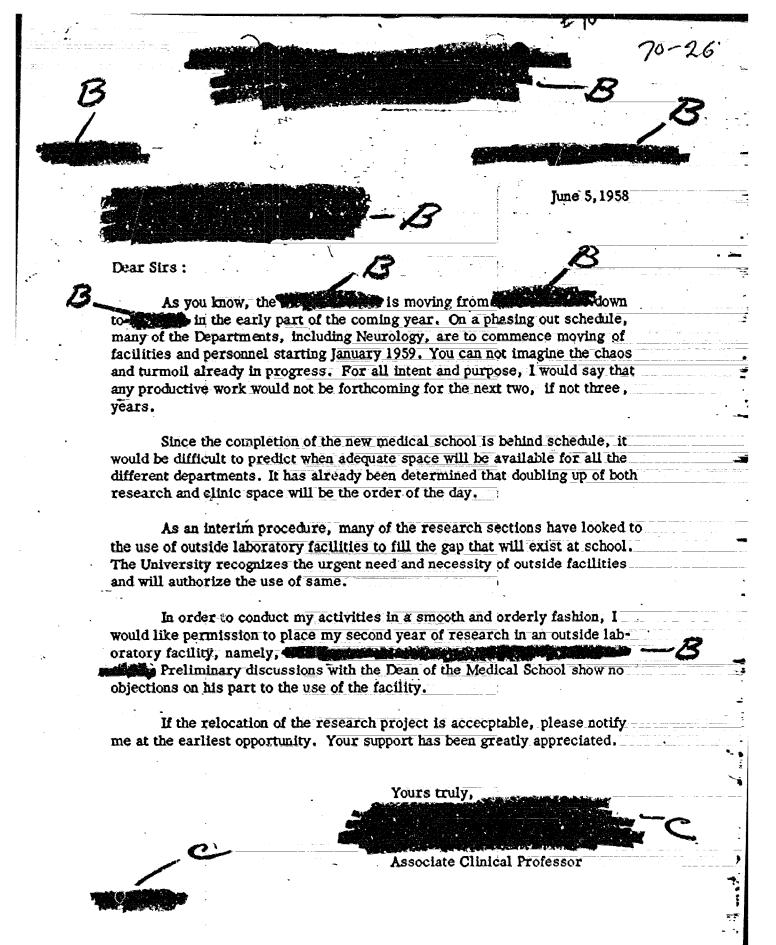
SUBJECT

: Authorization for Facility Change, MKULTRA #70

1. By letter dated 5 June 1958 from to use outside facilities to continue second year of research.

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





29 May 1958

Centlemen:

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

funds;

theck (209-33308) drawn on 100 \$25,422.00

Check #78 12465 drawn on All 1945.24.

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

Yours truly,

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13 Nay 1958

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MEDICALIDADE FOR 1	EXCLUSIVE.	A. I. SPECIAL SECTION AND ADDRESS OF TAXABLE PARTY.	111 8 15 11 18

YIA.

: TES/Buiget Officer

SIBJECT.

Allotment 7-2502-10-001

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

Cashier's check in the smount of \$25, \$22.00, drawn on a wall stable to proper to water the

Cashier's check in the amount of \$945.24, drawn on a district the amount of \$945.24,

- 2. Please forward the checks to Chief, TES/Chemical Division, through TES/Budget Officer, no later than Wednesday, 28 May 1958.
- 3. This invoice represents the total amount currently authorsised under Subproject 70. Bowerer, since it is enticipated that additional funds will be obligated for this project, the files should not be closed.

258/Cheaical Division

Attachments: Envoice and Certifications

CESTIFY THAT FUNDS ACE AVAILABLE

Distribution:
Orig & 2 - Addresses

/1 - TSS/TASB 2 - TSS/CD CHECK PEPYLOT THE AMOUNTED

2-A

28,33

INVOICE

For services

\$26,367.24

.eh /3

CERTIFICATIONS

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

Dates

(2) It is hereby certified that this invoice applies to Subproject #70 of MCULTRA 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 memorands.

Research Director

Dates

1 =

28 August 1957

B

Gentlemen:

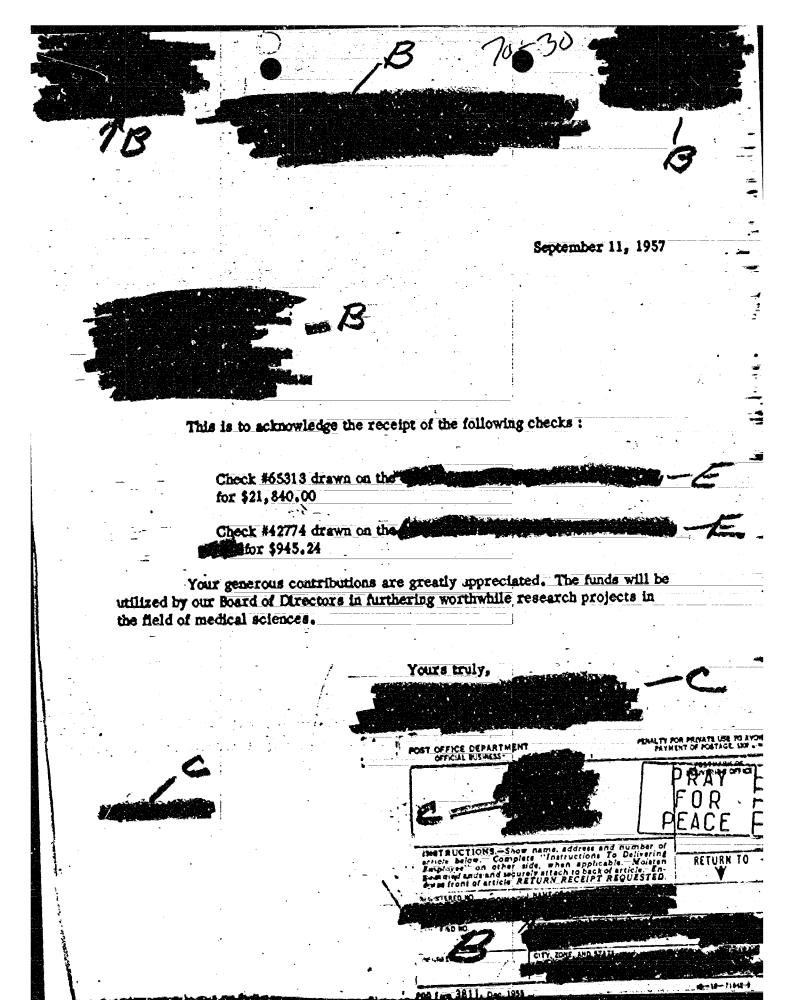
We are pleased to be able to transmit to you the following funds:

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

Check \$42774 drawn on the \$45.24

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

Yours truly,



MEMORANDUM FOR: CHIEF, FINANCE DIVISION	MEMORANDUA	FOR: CHIEF,	FINANCE	DIAIZION
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TSS/Budget Officer

SUBJECT

1 MKULTRA, Sabproject 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

Cashier's check in the amount of \$945. 24 drawn payable to 4

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

655/3 16 August 1957. 2/3/0.12

Acting Chief TSS/Chemical Division

icaments:

Involce and Certifications

Distribution:

Orig & 2 - Addressee

1 - Comptroller

- TSS/FASB

2 - TSS/CD

SEOPLET

70-31

INVOICE

For services

\$22,785.24



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.

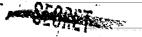
Acting Chief, TSS/Chemical Division

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



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 I June 1957. The typewriter will be physically located in the

Property .

Branch II
TSS/Chemical Division

Distribution:
Orig & 2 - TSS/CD

TSS/CD: (4 June 1957)



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1 May 1957

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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 memorands, Subpreject 70 has been approved, and \$49, 152, 43 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.

Chief TSS/Chemical Division

Approved for obligation of Yundsi

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Research Director

MAY 3

Date:

Distribution:

Orig & 2 - Addressee

1 - TSS/OC

CATSS/FASB

1 - TSS/SRB

2 - TSS/CD

SS/CD: (1 May 1957) 4 2011[

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MEMORANDUM FOR: THE RECORD

MKULTRA Subproject 70

- 1. The purpose of Subproject 70 is to initiate research work on the "K" (Knockout) Problem at the
- 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 direct and actively participate in this project as principal investigator from the where arrangements have been made for his appointment
- 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 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 the 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

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.

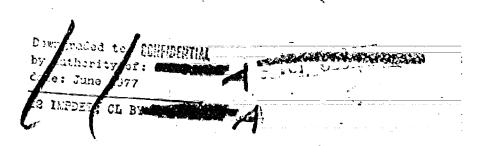
- 7. Title to any permanent equipment purchased by funds granted the University shall be retained by them in lieu of higher overhead rates.
- 8. It was mutually agreed that documentation and accounting for travel expenses which are reimbursable by the University shall conform with the accepted practices of that institution.
- 9. The requirement for a six months' informal accounting on the part of the principal investigator is waived.
- of the true purposes of the program. Also, he has agreed to comply with the requirements of the Memorandum of Agreement.



Chemical Division

TSS/Chemical Division

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# THE "K" PROBLEM

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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

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.

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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

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ES IMPDET; CL BY projects employing animal experimental procedures.

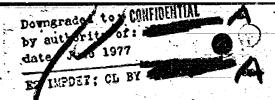
#### II. Incapacitating Agents

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 the opportunity for clinical evaluations of some centrally acting skeletal muscle relaxants on the therapeutic relief of spasticity in man.

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#### BUDGET

## First year

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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	1,000.00
	\$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	1,800.00
	\$22,300.00
University overhead (14%)	3,122.00
*	\$25,422,00

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