

THE BLACK VAULT

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#4.55 MKULTRA Sub-Project 46

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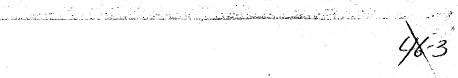
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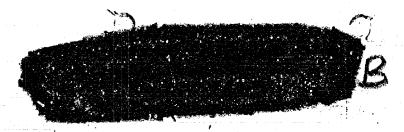
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CONTROLLER

January 22, 1964



Gentlemen:

- 7

We wish to submit a Final Financial Report for Research Supported by the

Total Runds Received

\$282,290.00

Expenses:	
Salaries	\$188,264.10
Contingency	795.62
Equipment	23,675.32
Travel	4,992.87
Other	2,707.65
Chemical, Drugs & Gases	9,644.88
Olassware	2,675.48
Anisels	3,059.50
Mrs. Lab Supplies	16,856.63
	4,637.95
Overhead	24.980.00
Wata1	

282,290.00

We hope that you can give favorable consideration to this report.

Yours truly,

B

Research Accountant

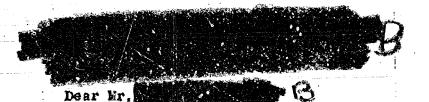
Copy to Dr

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

D. 1954

As 7500. over recovery action being to being

June 18, 1964



Referring to your letter of May 26, we find on review of our files a letter from Professor written on June 15, 1960, specifically requesting a grant of \$15,000 for the period of April through September of 1960, and for support at an annual rate of \$20,000 thereafter. Cagain, in a letter dated October 31, 1961, Professor. Prequested \$8,000 for support of Professor work for the period October 1961 to October 1962. In the same letter he explained that he would use the remainder of the grant for that year to support Draft of his laboratory. In a letter of October 5, 1961, Professor. Or equested a personal grant of \$10,000 for the period of his subbatical year. The latter grant was never approved by the

It would appear from these facts that while the has, perhaps, been somewhat informal in its administrative practice, the case in point, namely: the May 1962 payment of \$7500 to the University of was, in fact, unique in that there is no formal request in the files of the to support the specific grant and it must be considered an inadvertent overpayment by the

We would appreciate any further consideration you may be able to give this matter.

Very truly yours,





OFFICE OF THE

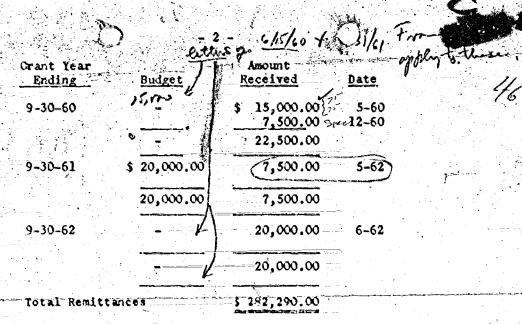


This letter is in response to your letter to me of May 6, 1964.

In accordance with your request to recheck our records for possible overpayment of \$7,500.00 we submit the following data:

Remittances received compared to approved budgets:

Crant Year Ending	Budget-	Amount Received	Date
9-30-54	\$-28,050.00	\$-7,012.50 7,012.50	11-53 4-54
		7,012.50 7,012.50	5 -54 9-54
	28,050.00 /	28,050.00	
9-30-55	34,400.00	17,200.00 17,200.00	5-55 9-55
	34,400.00	34,400.00	
9-30-56	34,100.00	17,050.00 8,525.00 8,525.00	1-56 5-56 8-56
	34,100.00	34,100.00 /	
9-30-57	40,700.00	10,175.00 10,175.00 10,175.00 10,175.00	1-57 3-57 7-57 12-57
89,100	40,700.00	40,700.00	
9-30-58	48,400.00	20,350.00 28,050.00	7-58 10-59
	48,400.00	48,400.00	
9-30-59	46,640.00	23,320.00 23,320.00	3-59 10-59
	46,640.00	46,640.00 /	



The budget requests after September 30, 1959 were made informally by telephone. Additional requests to reduce deficits, over and above the budget, were likewise granted on the basis of telephone conversations. It is a request of this nature, that we feel the \$7,500.00 received during May, 1962, to be.

On January 22, 1964, we submitted to you a report of expenditures which shows that research expenses of \$282,290.00 were paid from Grants. Actually, there was a small deficit in this account, which the University absorbed. This is not shown on the report. A photo copy of the report is attached.

Dr has reviewed his records and searched his memory to determine the sequence of transactions and he concurs that the above is about as precise a determination as we can make at this time. He has in his possession a memorandum of a telephone conversation with your office in which he records the request for the \$7,500.00 in question.

It is unfortunate that we did not continue a complete exchange of written requests and identify the period of research to which your support applied. Such documents would have been of inestimable value in answering your inquiry. It is our sincere belief however, that the \$7,500.00 check received during May, 1962, was not a duplicate payment and was your response to an informal request, for additional funds. If you feel that the matter deserves more attention, or that we have not made a satisfactory explanation of our accountability, please do not hesitate to inquire further.

Very truly yours,

Controller

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2)	passed \$7,500 (90 d	oring	May 1	962,	appai	rently	on.	<i>.</i>
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Project MKULTRA 46

Date Initiated: 24 March 1955

Date Expires:

Funds - current year: \$23,400,00

Purpose: To study the metabolic fate and distribution of psychotropic drugs in order to elucidate their mode of action.

Status: This is a continuing project. Current work is on tetrahydrocannibol into which radioactive carbon is introduced. Further work is awaiting the arrival of an appropriate post-doctoral student.



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Date	Comments	U.R. FEE	U.P. FEF.
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		TOTAL PAID OUT:	\$ 284,306.	60		
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Enclosed please find a brief report of our activities in the first six months of this fiscal year. In addition thesis has been sent to you presenting in detail some of the pharmacological properties of certain tetrahydrocannibols.

Je we two applications pending for grants-in-aide from the

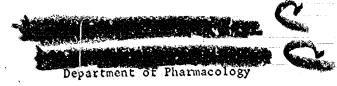
If these two grants are activitated and if the

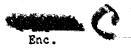
continues after October 1960 in

the range of \$15,000 to \$20,000 per-year, we can continue our present
level of research and in addition undertake the metabolic study of a
radioactive tetrahydrocannibol as planned. In the meantime we need
approximately \$15,000 for our current work in the second six months
of the fiscal year (April through September 1960). I hope you will
find it possible to continue your generous support to this extent.

Are you planning to visit us in the next few months? I am sure you would be pleased at the research activity you are sponsoring.

Yours truly,





		Date 28 October 1963
Branch BB	Category NEW	MATERIALS & CONCEPTS (X)
Project Title	N.A.	Item Classification N.A.
Project Crypto	MKULTRA	Crypto Classification Unclassified
	F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A.
Branch Project No	N. A.	Project Engineer
Contractor	Dr.	
Contract No	MKULTRA 46	Task No
Type of Contract	MKULTRA	Date Initiated 6 November 1961

Completion Date 5 November 1962

Purpose: Elucidation of the site and mechanism of action of LSD using isotope and tagged molecules, establishment of methods for isolating LSD and its metabolites from Biological materials and their identification.

Status: Terminated

\$20,000,00 FY 62

Internally generated based on need to obtain fund-amental information and elucidation of the mechanism Requirement: of action of a chemical compound used in selected

operational situations.





RECEIPT

Receipt is hereby acknowledged of the following checks:

dated November 29, 1961, Treasurer's Check in the amount of \$20,000,00, drawn on the

5

Cashier's Check dated November 29, 1961 in the amount of \$800,00, drawn on the payable to the

46-11

26 April 1960.



ing herewith a check for \$15,000.00 to provide additional support for your research program during the present grant year.

It is believed that the fundamental information obtained from your research will be of inestimable value. Your studies on the distribution and metabolic fate of selected compounds having significant central nervous system activity will provide information required for more productive research leading to improved compounds.

A summary accounting for the period from 1 October 1959 to 30 April 1960 will be appreciated at your earliest convenience.

14 November 1961

MEMORANDUM FOR: Chief, Finance Division

VIA

: TSD/Budget Officer

SUBJECT

: MKULTRA, Subproject 46, Invoice No. 19, Alletment No. 2125-1390-3902.

1. Invoice No. 10 in the amount of \$20,800.00 covering the above subproject is attached. Payment should be made as follows:

Cashleria check in the amount of \$20,000.00, drawn on a bank.

Cashier's check in the amount of \$800.00, drawn on bank.

The checks should be made payable to the

2. Please forward the checks to Chief, TSD/Research Branch through TSD/Budget Officer by 28 November 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.



TSD/Research Branch

Attachments:
Invoice & Certifications

I CERTIFY THAT THE OF THE COLUMN TO THE COLUMN THE COLU

Distribution:

Orig. & 2.4 Addressee

V1 - TSD/FASS

2 - TSD/RB OF GE

ANTON OF BUILD

30,800

1/20/61

AND THE PERSON NAMED IN

INVOICE

For Services

\$20,800.00



CERTIFICATIONS

(1) It is hereby certified that this is invoice #10 applying to Sub-project No. 46 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, TSO/Research Branch

Date: 14 November 1961

(2) It is hereby certified that this invoice applies to Subproject 46 of MKULTRA which was dely 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 memorands.

Research Director

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(When Filled In)

Cost Account 2/25- 1890- 3902

Object Class

					
Date	Remarks and References	Obligations Incurred	Obligations Liquidated	Unliquidated Balance	
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(When Filled In)

CARLO MARCH

Date: 24 October 1961

MEMORANIAM FOR: THE COMPTROLLER

ATTEMPTON

Finance Division

SUBJECT

MOULTRA, Subproject 46

Under the authority granted in the memorandum dated 13 April 1953

from the ICI to the DD/A, and the extension of this authority in subsequent memorands, Subproject 46 has been approved, and \$20,800.00

of the over-all Project MOLIRA funds have been obligated to cover the subproject's expenses and should be charged to cost center 2125-1393-3902

A Chief
TSD/Secent Branch

APPROVED FOR OBLIGATION OF FUNDS:

A

Research Director

6 1907

Distribution:

Original & F = ASD/FASS

2 - TSD/RB

andi Historia de asas espesas

DRAFT 24 October 1961

MEMORANDUM FOR: THE RECORD

SUBJECT

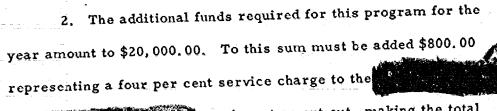
Supplement to Project MKULTRA, Subproject 46

1. The purpose of this supplement is to provide additional funds for the support of a research program being carried out by and associates at the University of

College of Medicine and provide for professional and related services by Dr. On specific problems of pharmacological and toxicological interest to TSD. The program provides fundamental information and elucidates the mechanism of action of certain psychotropic drugs. Particular emphasis has been centered on the structure activity relationships among a class of compounds of immediate interest to TSD/CB. The scope of the program includes studies on the distribution and metabolic fate of selected compounds having significant central nervous system activity. Studies also will be conducted on the pharmacological aspects of drug tolerance and addiction together with an examination of the metabolism of drugs acting in the central nervous system. It is expected that results obtained will provide information required for development of more effective compounds.





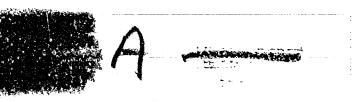


amount \$20,800.00. Charges should be made against Allotment 2125-1390-3902.

submit to them a summary accounting on an annual basis of all monies
received from Also, it has been requested that any unexpended funds be returned at the close of the grant year.

- 4. The requirement for a six months informal accounting on the part of the principal investigator is waived.
- 5. It is not anticipated that any permanent equipment will be required for this program.
- 6. It has been mutually agreed that travel expenses which are reimbursable by the University from project funds will be accounted for in a manner consistent with the accepted policy of the University.

7. Dr. possesses Agency TOP SECRET approval.



46-20

A

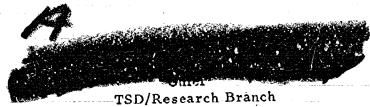
- TOWN TOTAL

. 3 -

The project is unclassified after it leaves the



Bernstein



APPROVED FOR OBLIGATION OF FUNDS:



Research Director

Date:

6 4361

Distribution:
Original only.



AND SECTION OF THE PERSON OF T

RECEIPT

Receipt is hereby acknowledged of the following checks:

Cashier's Check dated September 12, 1960, in the amount of \$7,500,00, drawn on payable to

Cashier's Check dated September 12, 1960 in the amount of \$300-00 drawn on payable to

Date: 15 Spt (00



25 August 1960

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

: TSD/Budget Officer

SUBJECT

: MKULTRA, Subproject 46, Invoice No. 9 Allotment 1525-1009-1902

1. Invoice No. 9 in the amount of \$7,800.00 covering the above subproject is attached. Payment should be made as follows:

Cashier's check in the amount of \$7,500.00, drawn bank.

Cashier's check in the amount of \$300,00, drawn on

The cheeks should be made payable to

2. Please forward the checks to Chief, TSD/Research Branch through TSD/Budget Officer by 9 September 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.

THE AMOUNT OF \$250

Chief TSD/Research Branch

Attachments:

Invoice & Certifications

Distribution: Orig. & 2 - Addressee

1 - TSD/FASS

2 - TSD/CB

TSD/CB/

E ANDUNT OF SEE

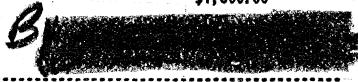
T CERTIFY THAT FUNDS ARE AVAILABLE THE

AUTHORISHING OFFICER

INVOICE

For services

\$7,800.00



CERTIFICATIONS

(1) It is hereby certified that this is Invoice No. 9 applying to Subproject 46 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 46 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.

3 0 AUG 1960

1

Research Director

Date:

CONFIDENTIAL FUNDS POSTING VOUCHER DATE 2-6 VOUCHER NO. 7-12 VOUCHER NO. 7-12 58-67 ALLOT. OR COST ACCT. NO. 34-39 STATION CODE 68-70 DESCRIPTION- ALL OTHER ACCOUNTS 13-33 71-80 45-46 ORLIG. DUE AMOUNT PAY REF. NO. DATE EXPEND υ GENERAL PER. ADVANCE CA LEDGER ACCT. NO. YR ACCT. NO. CODE DESCRIPTION. N P.O. NO. PROP, NO. ADVANCE ACCOUNTS 13-27 LIQ. OBJECT 06817 D CREDIT PROJECT NO. CODE CLASS ... X REF. NO. 3550 601.0 75-1009-1902- 730 7.323.20 30000 EXPLANATION OF ENTRY TOTALS 780000 780000 See attachments REVIEWED BY CERTIFIED FOR PAYMENT OR CREDIT (10-49)

ASTERNET

No. _

16-24

		Object Class		
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3 August 1960

MEMORANDUM FOR: COMPTHOLLER

ATTENTION

Finance Division

SUBJECT

: MKULTRA, Subproject 46, Additional Authorization No. 7

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 46 has been approved and \$7,800.00 of the over-all Project MKULTRA funds have been obligated to cover the subproject's expenses and should be charged to Allotment 1525-1009-1902.



TSD/Research Branch

Research Director Date:

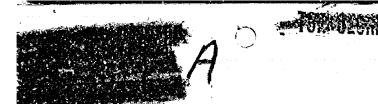
I CERTIFY THAT FUNDS ARE AVAILABLE

AUTHORIZING OFFICER

Distribution:

Orig. & 2 - Addresses

1 - ASD/OC - TSD/FASS



DRAFT 3 August 1960

MEMORANDUM FOR: THE RECORD

SUBJECT

: Supplement to Project MKULTRA, Subproject 46.

1. The purpose of this supplement is to provide additional funds
for the support of an expanded research program being carried out by

Dr. College of Medicine.

Acquisition of a difficult to obtain intermediate of a psychotropic drug
of Agency interest makes possible the introduction of a radio labeled
group which will permit a significant study on its metabolic fate. The
results obtained will provide information basic to an understanding of
its pharmacological effect.

2. The additional funds required for this expansion of the program during the remainder of the year amounts to \$7,500.00. To this sum must be added \$300.00 representing a 4% service charge to who act as cut out,

making the total amount \$7,800.00. Charges should be made against Allotment 1525-1009-1902.

has requested that the investigator submit to them a summary accounting on an annual basis of all monies received from Any unexpended funds will be returned by the grantee at the close of the grant year.







- 4. The requirement for a six (6) month informal accounting on the part of the principal investigator is waived.
- 5. It is not anticipated that any permanent equipment will be required for this program.
- 6. It has been mutually agreed that travel expenses which are reimbursable by the University from the project funds will be accounted for in a manner consistent with the accepted policy of the University.

7. Dr. possesses Agency Top Secret approval. The project is unclassified after it leaves

A Chief

TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS:



Research Director

Date:

8 A/100

Distribution:
Original only

RECEIPT

Receipt is hereby acknowledged of the following two checks:

Treasurer's Check dated April 22, 1960, drawn on in the amount of the payment to

Date:

211/ 60



31 March 1960

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

AIY

: TSD/Budget Officer

SUBJECT

: MKULTRA, Subproject 46, Invoice #8, Allotment 0525-1009-4902

1. Invoice #8 in the amount of \$15,600.00 covering the above subproject is attached. However, due to refunds of \$1,487.50 from other projects (as per attachments) payment should be made as follows:

Cashier's check in the amount of \$13, 512.50, drawn on a bank.

Cashier's check in the amount of \$600.00, drawn on a

The checks should be made payable to the

2. Please forward the checks to Chief, TSD/Chemical Branch through TSD/Budget Officer by 14 April 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

CHEC N THE AMOUNT DE \$13512.50

RECEIVED. 26 APR

Chief

TSD/Chemical Branch

Attachments:
Invoice & Certifications

Distributions:

Orig & 2 - Addressee

Y- TSD/FASS

2 - TSD/CB

TSD/CB/

CHECK NOTHER AMOUNT OF \$600

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46-28

INVOICE

For Services

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CERTIFICATIONS

(1) It is hereby certified that this is Invoice # 8 applying to Subproject 46 of MKULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSD/CB, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSD/Chemical Branch

Date:

(2) It is hereby certified that this invoice applies to Subproject 46 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:





CERTIFICATION

(3) It is hereby certified that under subproject 22 at the close of FY 1960 a balance of \$1,487.50 representing unused funds remained in Subproject 22 which is still continuing. Therefore it is requested that \$1,487.50 of Invoice No. 8 be credited subproject 46 as a return of unused funds FY 0525-1009-4902, MOR 1909.

SEGNET

46-09

No.		1909

Cost Account 0535 · 109 - 4912

Object Class ____

_======================================	Date	Remarks and References	Obligations Incurred	Obligations Liquidated	Unliquidated Balance
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SECRET



15 March 1960

MEMORANDUM FOR: COMPTROLLER

ATTENTION

: Finance Division

SUBJECT

: MKULTRA, Subproject 46, Additional Authorization No. 6

Under the authority granted in the Memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda, Subproject 46 has been approved and \$15,600.00 of the over-all Project MKULTRA funds have been obligated to cover the subproject's expenses and should be charged to Allotment 0525-1009-4902.



approved for obligation I CERTIFY THAT FUNDS ARE AVAILABLE. OF FUNDS: AUTHORIZING CARCER Research Director

Date:

Distribution: Orig & 2 - Addresseo

1 - TSD/OC







DRAFT 15 March 1960

MEMORANDUM FOR: THE RECORD

SUBJECT

: Supplement to Project MKULTRA, Subproject 46

1. The purpose of this supplement is to provide additional funds
for the support of a research program being carried out by

Danal and associates at the University

College of Medicine, The program provides fundamental information
and elucidates the mechanism of action of certain psychotropic drugs.

Particular emphasis has been centered on the structure activity
relationships among a class of compounds of immediate interest to

TSD/CB. The scope of the program includes studies on the distribution
and metabolic fate of selected compounds having significant central
nervous system activity. It is expected that results obtained will
provide information required for productive research into the pharmacodynamics of more effective compounds.

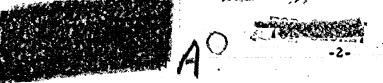
2. The additional funds required for this program for the year amount to \$15,000.00. To this sum must be added \$600.00 representing a four per cent service charge to who act as cut out, making the total amount \$15,600.00. Charges

should be made against Allotment 0525-1009-4902.

3. has requested that the investigator submit

to them a sommary accounting on an annual basis of all monies received from Also, it has been requested that any unexpended funds





be returned at the close of the grant year.

- 4. The requirement for a six months informal accounting on the part of the principal investigator is waived.
- 5. It is not anticipated that any permanent equipment will be required for this program.
- 6. It has been mutually agreed that travel expenses which are reimbursable by the University from project funds will be accounted for in a manner consistent with the accepted policy of the University.
- 7. Dr possesses Agency TOP SECRET approval. The project is unclassified after it leaves

Chief
TSD/Chemical Branch



Date:

Distribution:
Original only.



27 January 1960

MEMORANDUM FOR: THE RECORD

SUBJECT : Action on MKULTRA Audit Exceptions -- TSS/CD

SP#46

financial statement for the grant from for expenditures from 9/53 to 3/53 has been approved. Certification of the principal investigator will be obtained when the grantee is visited by TSS/CD personnel to discuss research progress and future programming. Summary accounting for funds received through 9/30/59 has been approved and certified by principal investigator.

Chief_ TSS/Chemical Division



The following is a breakdown of expenses on

ses on

Grants a

for the 58-59 year:

	GA 140	GA 142	TOTAL
6,9 4,4 2,9 4,2	42.70 25.41 22.25 21.78 83.22		
	5,053. 1,600. 350	33 .00 .00 .52	
Total Salaries	\$23,099.15	\$7,119.85	\$ 30,219.00
Equipment Travel	4,039.07		4,072.07 102.54
Contingencies Consumable supplies Overhead 10%	3,870.08 3,102.95	-0- 1,672.04 890.62	5,542.12 3,993.57
Total Expenses 58	34,132.48	9,796.82	43,929.30
Cash received from incer thru 9/30/59 Cash due from thru 9/30/ Total Budgeted Inc	so B		\$180,920.00 51,370.00 232,290.00
Total Expenses fro	om inception	The second secon	222,776.51
Balance Availab	le 10/1/59		9,513.49

TES/Chemical Division

RECEIPT

Receipt is hereby acknowledged of the following two checks:

dated 3 September 1959, drawn

dated 3 September 1959, drawn on the amount of \$1,865.60,

"STARKE"

No. 442

Cost Account 9- 2502 . 75 - 902

Object Class

Date	Remarks and References	Obligations Incurred	Obligations Liquidated	Unliquidated Balance
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	Bu +7		46.640.00	7.00
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22 August 1958

NEWPARLUM FOR COMPTROLLER

MITERITION

: Finance Division

SUBJECT

MOULTRA Subproject 46, 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 memorands, Subproject 46 was

previously approved. Under the same authority an additional

sum of \$40,505.60 has been authorized to cover the subproject's

expenses. This expenditure should be charged against Allotment

9-2502-15-902.

A

283/Cheateal Plyision

APPROVED FOR OBLIGATION OF PURIDS:

A STATE OF THE STA

Research Director

A CERTAN TOWN FROM SHE ANALASES

AUEROS ELIGIDARICER

CHARLES TO 10 10 10 10 9 . J502 . 75 . 902

Date: 201954

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1 - TSS/00

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1 - TSS/SRB

2 - TSS/CD



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DATE PREPARED BY	DATE	A	REVIEWED BY		DATE		PAYMENT OR CRED	IT .
FORM					Drugi ;	SIGNATURE		

6-59 606 USE PREVIOUS EDITIONS.

/4

10-49)



21 August 1959

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA .

: TSS/Budget Officer

SUBJECT

f MKULTRA, Subproject 46, Invoice No. 7
Allotment 9-2502-75-902

1. Invoice No. 7 covering the above subproject is attached.

Payment should be made as follows:

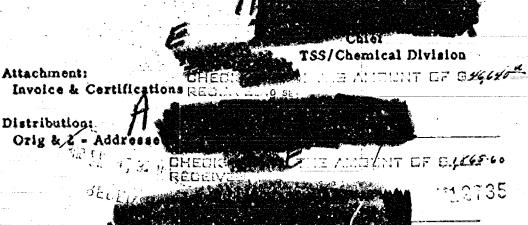
Cashier's check in the amount of \$46,640.00, drawn on a bank.

Cashier's check in the amount of \$1,865.60, drawn on a bank.

The checkshould be made payable to

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

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





INVOICE

For services

\$48,505.60



CERTIFICATIONS

(1) It is hereby certified that this is Invoice No. 7 applying to Subproject 46 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 46 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

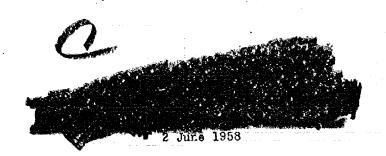
Date:

GRANT FROM

Category	Expenditures 9/53-3/58	
Salaries	76,487.15	
Equipment	15,412.74	
Materials and Supplies	16,422.25	
Travel	2,273.31	
Overhead	16,877.00	
Contingencies	750.00	
Chemical Studies (Dr	30,616.66	
	Total 158,839.11	
	Approved Budget (to 9/58) 185,650.00	
	Balance 26,810.89 3/58 3/58	5 3
PERSONNEL INVOLVED P	IN ROPOSED 1950-1959	· · ·

PROPOSED ANNUAL BUDGETS FOR NEXT TWO YEARS, 9/58-9/60

Cat	tegory	Proposed Expenses
Salaries		23,500.00
Equipment		3,000.00
Materials and	d Supplies	7,000,00
Travel		900.00
Overhead (10)	3)	և,2կ0.00
Contingencie	s <	2,000.00
Chemical Stu	dies (Dr.	6,000.00
•		Total 46,640.00



I have examined and approved the expenditures.

TSS/Chemical Division

RECEIPT

Receipt is hereby acknowledged of the following three checks:

1957, drawn on the

lated July 3, 1957, drawn on

46-40

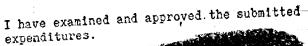
PERSONNEL INVOLVED IN

		Remuneration
0	Dr	None
6	Dr	\$7000
è.	Dr.	6400
C	Dr (consulting)	800
C	Dr. (part time)	1,00
C	Mr. A Washington	4500
C	Mrs.	3100
	D-L	None ;
Ċ	Dr.	4350 I

46-41

FINANCIAL STATEMENT FOR THE GRANT FROM

Category	Expenditures 9/53-9/57
orași de la Alexanderia. La compania	
Salaries	66,606.37
Equipment	12,274.97
Supplies and services	14,672.83
Contingencies	750.00
Travel	2,273.31
Overhead	16,877.00
Chemical Studies (Dr.	26,920.97
Total	140,375.45
Approved budget (to_9/58)	
Balance	45,274.55



Acting Chief TSS/Chemical Division

Date:

19 Fel 1960



21 June 1937

in Sec.	
MEMORAN	DUM FOR: CHIEF, FINANCE DIVISION
VIA	es/Budget Officer
SUBJECT	MKULTRA Subproject 46, Invoice 6,
SONECI	Allotment 7-2502-19-001
1.	Invoice No. 8 is attached covering the above subproject
	hould be made as follow
Cu Cu	thier's check in the amount of \$2,387,13, drawn on a
G Y	bank, was also also also also also also also al
Cas	hler's check in the amount of \$39, 815.56, drawn on a
Car	shier's check in the amount of \$19,907.78, drawn on a
	pank **
All three c	hecks should be made payable to the
THEFT	
2.	Please forward the checks to Chief, TSS/Chemical
	rough TSS/Budget Officer by Friday, 5 July 1957.
~ Y (CA)	This is a final invoice. A total of \$93, 121.60 was ob-
ligated und	er this subproject during FY 57. However since it is
anticipated	that additional funds will be obligated for this project,
	hould not be closed
	Acting Chief TSS/Chemical Division
	100) Chambar Division
Attachment	
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146-47

21 June 1958

-MEMORANDIM FOR:

THE CLI

46-42

INVOICE .

For services

\$62, 110.47



CERTIFICATIONS

(1) It is hereby certified that this is Invoice No. 6 applying to MKULTRA Subproject 46, that performance is satisfactory, that the services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Acting Chief, TSS/Chemical Division

Date:

(2) It is hereby certified that this invoice applies to MKULTRA Subproject 46, 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:





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46-42

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Receipt is hereby acknowledged of the following two checks:

Cashier's check

dated Decomber 19, 1956, drawn on in the amount of

and

Treasurer scheck

dated December 26, 1956, drawn in the amount of

Both checks are made payable to

01.50

Date:

11 January 1957



13 December 1956

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA:

TSS/Budget Officer

SUBJECT:

Attachments:

Distribution:

Invoice and Certifications

1 - Comptroller

Orig & 2 - Addressee

MKULTRA Subproject 46, Invoice 5
Allotment 7-2502-10-001

1. Invoice No. 5 is attached covering the above subproject.

Payment should be made as follows:

Cashier's check in the amount of \$29, 815.66, drawn on a bank.

Cashier's check in the amount of \$1,193.87, drawn on a bank.

Both checks should be made payable to

2. The checks should be forwarded to Chief, TSS/Chemical Division, through TSS/Budget Officer, no later than Monday, 31 December 1958. Other invoices will follow.

SIDNEY GOTTLIEB
Chief
TSS/Chemical Division

EER
EER
CANEED GEVEL

5-1601

INVOICE

\$31,010.53

For services

CERTIFICATIONS

(1) It is hereby certified that this is invoice 5 applying to MKULTRA Subproject 46, that performance is satisfactory, that the services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSS/Chemical Division

Date:

(2) It is hereby certified that this invoice applies to MKULTRA Subproject 46, 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:

AN TOWN



DRAFT HWB/vaj

22 August 1958

MEMORANDUM FOR: THE RECORD

SUBJECT

: Project MXULTRA, Subproject 46

1. The purpose of this project is to provide funds for the partial support of the research program being carried out by Professor. Sollege of Medicine. Additional support for the program contently being provided by and the University of the support for the program by Agency funds) is attached. The attached report indicates the details of the program to be carried out and also shows current status of the work.

- 2. As is indicated in the attached Report, this program which is aimed at the elucidation of the mechanism of action of ISD-25 has met with considerable success. Many of the facts and relationships developed in the preliminary work on methods and techniques have materially advanced other projects being carried out by TSS/CD. Actually, the successful completion of this project would remove several of the most obstinate "road-blocks" in the continued development of the psychochemical field, namely: (1) a specific antidote for ISD-25, (2) a sensitive method for assaying ISD-25 in blood and urine, (3) a sensitive qualitative laboratory screening system for psychochemicals, (4) an idea of the relationship between chemical structure and biological activity in this type of material, and (5) the relationship between ISD-25 and other materials of a similar nature which are now available.
- 3. The investigator's request for a two-year grant is reasonable in the opinion of TSS/CD. We have previously conducted this program of basic research on a two-year basis. It should be noted that the present budget for the coming two years is approximately of that previously required. This does not represent any decrease in the total effort in the program. It has been accomplished by the addition of funds from other sources. By careful selection of the sources of additional funds TSS/CD has been able to maintain the same control over the goals of the project as it possessed when it was the sole support.

serve as cutout for the transfer of funds to the investigator. The





estimated cost of the work is \$46,640.00 for a period of two years. To this must be added four percent service charge for amounting to \$1,865.60. Therefore, the total cost of this program for two years will not exceed \$48,505.60.

5. The University of shall retain title to any permanent equipment in lieu or nigher overhead rates.

submit to it a summary accounting for all monies received under its grants and that all unexpended funds remaining at the end of the project be returned to the Fund.

7. It has been mutually agreed that travel expenses which are reimbursable by the University from project funds will be accounted for in a manner consistent with the accepted policy of the University.

8. Professor has been cleared to Men Secret by the Agency and is the only vitting individual a The project is unclassified after it leaves the

Chiel

TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS:

Carlotte Carlotte

Date: 25 1958

Attachment: Proposal

Distribution:
Original only

DRAFT

46-46

5 December 1956

MEMORANDUM FOR: THE RECORD

SUBJECT:

Project MKULTRA, Subproject 46

tial support of the research program being carried out by Prof.

and associates at the University of College of Medicine. Additional support for the program is currently being provided by and the University of the proposal covering the details of the program and the budgets for 1956-57 and 1957-58 (including only that portion covered by Agency funds) is attached.

- 2. As is indicated in the attached proposat, this program which is aimed at the elucidation of the mechanism of action of LSD-25 has met with considerable success. Many of the facts and relationships developed in the preliminary work on methods and techniques have materially advanced other projects being carried out by TSS/CD. Actually, the successful completion of this project would remove several of the most obstinate "road-blocks" in the continued development of the psychochemical field, namely: (1) a specific antidote for LSD-25, (2) a sensitive method for assaying LSD-25 in blood and urine, (3) a sensitive qualitative laboratory screening system for psychochemicals and (4) an idea of the relationship between chemical structure and biological activity in this type of material. (5)
- 3. The investigator's request for a two year grant is reasonable in the opinion of the writer. During the past year two very acceptable candidates for the post of enzymologist on this program have turned the job down because of the year-to-year basis of the program. It appears that it would not be feasible to achieve the same end by increasing the support from sources other than the since the goals of the program would have to be attered considerably to make this possible.
- 4. serve as cutout for the transfer of funds to the investigator. The estimated cost of the work is \$89,540.00 for a period of two years.



To this must be added four percent service charge for the amounting to \$3,581.60. Therefore, the total cost or this program for two years will not exceed \$93,121.60.

5. The University of shall retain title to any permanent equipment in lieu of higher overhead rates.

submit to it a summary accounting for all monies received under its grants and that all unexpended funds remaining at the end of the project be returned to

- 7. It has been mutually agreed that travel expenses which are reimbursable by the University from project funds will be accounted for in a manner consistent with the accepted policy of the University.
- 8. Prof. fas been cleared to Ton Secret by the Agency and is the only witting individual a he project is unclassified after it leaves the

Chief, Branch II TSS/Chemical Division

Approved:

Sidney Gothlieb

Chief

TSS/Chemical Division

Attachment: Proposal

APPROVED FOR OBLIGATION OF FUNDS:

nesearch Director

Date: Ree 7- 456

Distribution:
Original only

46-46

Proposal for the Continued Study of the Metabolism of d-Lysergic Acid Diethylamid

It is proposed to continue the study of LSD-25 and related compounds in substantially the same areas of work as during the past year with alterations as required by the advances made. The program has now progressed to the point where practical plans for the work can be laid down based upon knowledge and experience gained in the past. Very briefly stated the present status of the work is as follows:

- 1. We have shown that side-chain carbon labelled LSD-25 remains intact during its passage through the animal and thus that it is an adequate tracer molecule.
- 2. We have completed organ and tissue distribution studies from the 10 minute to the 12 hour period with the available Carbon-labelled tracer.
- 3. We have found that two species of mammals other than rats show the same pattern of LSD-25 distribution after dose indicating that an extrapolation to man is probably feasible.
- 4. We have isolated and partially characterized the metabolites of LSD-25 excreted by the liver and we are in the process of producing amounts of these sufficient for further work.
- 5. We have developed a technique of measurement of cortical electrical potentials which allows us to study the effects of LSD-25 and various inhibiting materials directly in the central nervous system.
- 6. We have also developed a biological assay technique using a spinal reflex are of the cat which is particularly amenable to inhibition and potentiation "analysis" studies with LSD-25 and related compounds.
- 7. We have investigated the known synthetic methods for the production of LSD-25 including biosynthesis from the point of view of the production of radio-carbon ring-labelled material. None of these so far has proved a feasible approach.



- 8. We have made considerable progress toward a new and completely different synthetic process for LSD-25 which if it proves successful will provide the ring-labelled LSD-25 that is needed for more definitive tracer studies.
- 9. We have completed an exhaustive study of tissue extraction techniques working toward a method which will allow the chemical isolation of LSD-25 from body fluids and tissues when it is present in the usual concentrations. The method at present under investigation shows good promise of achieving this goal as further refinements are introduced.

It is apparent from the above accomplishments that the major progress to date has had to do with developing the tools for pursuit of the main goal of this research program. It is also apparent that with a few additions to these methods, we are now in a position to make use of what we have learned so far to produce basic information about the sites and mode of action of LSD-25, how this action can be modified or reversed, how it might be accentuated, what other materials might produce comparable or complimentary effects, how such materials can be detected in the medico-legal sense, and possibly considerable basic information on the neurochemical basis for the stress reaction and other important responses of animals to their immediate environment.

It is the opinion of those familiar with the details of this project that the next two years work will provide many if not all of the desired data indicated above. As in every case of a program of this type, a number of unforeseen difficulties as well as some fortuitous discoveries will no doubt appear as the work progresses, however there is every reason to believe that the next two years will yield directly useful information at a rate far above that of the introductory period of the program.

In the past this research program has been carried out on a year-to-year basis. There were several reasons for this, chief among which was the fact that the feasibility of our general approach to the problem had not been completely established. Contributing factors were that varying amounts of support were available from sources other than the project personnel to take positions in longer term projects elsewhere was not greatenough to cause them to leave. All of these factors now appear to have changed in such a way as to make it



advisable to place the program on at least a two year basis as shown in the financial proposal. We have indicated in the foregoing resume of the work that the feasibility of our approach to the problem has been amply demonstrated. In addition, the University of assumed a long term obligation to this Department to provide new integrated working space for the program, more basic equipment and certain faculty status changes for those employed on the program. The obligation assumed by the University cannot be readily stated in financial terms since it involves many intangible advantages to the program. Finally, it is becoming impossible to retain competent personnel on the basis of one year appointments and so we find it almost mandatory that we obtain commitment for at least two years! support. We have in the past solicited as much outside support for the program as time_would_allow and we shall continue to do so in the future, however the basic framework of the program depends upon support.

As it is planned at present, the project personnel will remain the same for the next two years except for the addition of an enzymologist and one technician if they can be obtained. Professor if the Chemistry Department has indicated his desire to maintain the synthetic chemical work and the various other consultants to the program will continue to serve. Due to the support of the figure personnel can be absorbed without any major increase in the grant.

University of





BUDGET

	1956-57	1957-58	
Salaries	22,000	29,000	
Equipment	2,000	2,000	
Materials and Supplies	5,000	7,500	
Travel	500	900	
Contingencies	500		
Prof	7,000	5,000	
	37,000	44, 400	
University O.H. @ 10%	3,700	4,440	
	40,700	48,840	
•	48,840		
	•		

40700



December 1956

MEMORANDUM FOR: COMPTROLLER

ATTENTION:

Finance Division

SUBJECT:

MKULTRA Subproject 46, Additional Authorization No. 4

1. 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 46 was previously approved. Under the same authority an additional sum of \$93, 121.60 has been authorized to cover the subproject's expenses.

2. This expenditure should be charged against Allotment 7-2502-10-001.

SIDNEY GOTTLIEB
Chief
TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS:

CHARGE TO SELECT

1336 7-2503-10-00

Research Director

Date:

Distribution:

Orig & 2 - Addressee

1 - TSS/OC

1 - TSS/FASB

1 - TSS/SRB

2 - TSS/CD

TSS/CD

December 1956)

FISCAL YEAR 1957

MEMORANDUM OF ACREEMENT

The purpose of this Memorandum of Agreement is to set forth the mutual administrative responsibilities of the principal research investigator and the sponsor. Therefore, it is mutually agreed that,

A. The principal investigator shall submit to the sponsor, at six month intervals, an informal statement of expenditures of monies advanced for research activities. It is requested that the statement be submitted in essentially the following form:

Personal compensation (Salaries, Subject fees)
Equipment
Supplies and Services
Contingencies
Overhead

- B. It is understood that any travel expenses incurred in the furtherance of the research program will be accounted to the University in a manner consistent with its established practices and policies.
- C. The principal investigator shall submit to the sponsor semi-annual reports on the technical progress of the research covered by these funds.

Date: 21 Werk 1956

I hereby acknowledge receipt of the following two checks:

1 March 1956

MEMORANDUM FOR CHIEF, FINANCE DIVISION

VIA

TSS/Budget Officer

SUBJECT:

MEULIFA Subproject 46, Invoice 4 Allotment 6-2502-10-001

1. Invoice 4 for the above subproject is attached. Pay-

two cashier's checks, one for \$654.72, drawn on a bank and the second in the amount of \$17.077.28, drawn on a bank, both payable to

2. The above checks should be forwarded to Chief, TSS/Chemical Bivision, through TSS/Budget Officer, no later than 13 March 1956.

3. This is a final invoice. A total of \$35,464.00 was obligated under this subproject during FY 56. However, since it is anticipated that additional FY 56 funds will be obligated for this project, the files should not be closed.

CHECK IN THE AMOUNT OF \$19172

CHECK IN THE AMOUNT OF \$19172

RECEIVED. 16 1848

AVAIDABLE

Acting Chief TSS/Chemical Division

Distributions

Orig & 2 - Addressee

1 - Comptroller

CERTIFY THAT FUNDS ARE AVAILABLES

CHANGE TO ALLOW INT IS. 6-2502-10 -00/

A MINORILL I OFFICER

Ah 816 - 603.1-25.2-10-341-17.9. 17732.60

h Com 17.732.00

UFFICER

58671

INVOICE

For Services

\$17,732.00

CERTIFICATIONS

(1) It is hereby certified that this is Invoice 4 applying to MAULTRA Subproject 46, that performance is satisfactory, that the services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Acting Chief, TSS/Chemical Division

DATE:

(2) It is hereby certified that this invoice applies to MKULTRA Subproject 46, 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:

1 mm 1 i

46.53

Jan 3, 1956 Invoice #1

March " THAY

\$35,464.00

17,732,00

1 7332.00

17732.00

0

FILE SUB 46

RECEIPT

I hereby acknowledge receipt of the following two checks:

house

Cashier's Check The Market, dated January 12, 1956, in the amount of \$709.23.

Cashier's Check dated January 12, 1956, in the amount of \$17,022.72.

Both checks are drawn on

, and are made payable to

Date: Jaures 24, 1956

4



3 January 1956

MEMORANDUM FOR 1 CHIEF, FINANCE DIVISION

AIA

135/Dudget Officer

SUBJECT

MULTRA Subproject 46, Invoice &1
Allotment 6-2502-10-001

1. Invoice #1 is attached covering the above subproject.
Other invoices will follow later. Payment should be made as
follows:

one cachier's checks, revenie to one caces in the amount of \$17,022.72, both draw on a bank.

2. Both checks should be forwarded to Chief, TSS/Chemical Division, through TSS/Dudget Officer, no later than 13 January 1956.

Chief TSE/Chesical Division

Attackments: Invoice & Certifications

Distribution: Orig & 2 - Addresses

house garden

1 - Comptroller

1 - TSS/FASB

1 - TSS/SRB

2 - TSS/CD_

SHEER ... IN THE AMOUNT OF \$ 208.28

TECHNER 1843

TSS/CD (3 January 1956)

HEDRA THE AMEL

17.022.72

6-3502-10-001



INVOICE

For corriess

Company of the second

\$17,732.00

CERTIFICATIONS

(1) It is hereby certified that this is isvoice #1 applying to Subproject 46 of MAULINA, that performance is satisfactory, that the services are being eccomplished 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 jet been made.

Chief, TS3/Chemical Division

32. 14 02 A 2 Hal

BETINIMOA

Dates

(2) It is hereby cortified that this invoice applies to Subproject 46 of MWIJRA which was duly approved, and that the project is being carried out in accordance with the necessarium dated 13 April 1953 from the DOI to the DO/A, and the extension of this guthority is subsequent mesogrands.

Dates

Research Director



19 December 1955

MONTH FOR COMPTROLLER

ATTESTICE:

Pinence Division

BUBLIECT

MULTRA Subproject 46, Additional Authorization No. 3

Under the authority granted in the neworandem dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memorands, Subproject 46 was previously approved.

Under the same authority at additional sum of \$35,464.00 has been authorised to cover the subproject's expenses, (thereby bringing to a total of \$56,240.00 funds obligated during FI 56) to be charged to Allotment 6-2502-10-001.

SIDERY CONTLUES
Chief
TSS/Chemical Division

APPROVED IN ABLIGATION OF FUNDS A

Date

Distribution: Orig & 2 - Addresses

1 - TSS/OC

1 - TSS/FASB

nec/

2 - TSS/CD

(19 December 1955)

ember 1955)

AUTHORIZING OFFICER

I CERTIFY THAT FUNDS AND ANALASLE.

A

46-57 15 December 195 MEMORANDUM FOR: THE RECORD

> SUBJECT Extension of MKULTRA, Subproject 46

The scope of this research program is intended to ork to be done with ISD and related compounds by Professor University for a period of one year standing O September 1956. The project vill be handled for cutout and cover purposes. The proposal from Professo

- The general objectives of this project are directed at the elucidation of the site and mechanism of action of ISD by use of isotopically tagged molecules, the establishment of adequate methods for isolating LSD and its metabolites from biological materials, and a method for identifying these compounds.
- has available to him at Professor highly competent group of scientists of international reputation encompassing the fields of physical and organic chemistry in addition to those of medicine and psychology. He plans to use these people as informal consultants in the work.
- 4. The costs of this program are estimated to be \$35,464.00 including \$3,100.00 for the ten percent University overhead charge sefour percent service charge by Charges should be method THO MENT OF THE PROPERTY

This project will be completely unclassified after it

APPROVED FOR OBLIGATION OF FUNDS:

APPROVED:

Research Director

Dec. 1905-

emical Division

Attachment:

Proposal

Distribution: Original Only



70

46-51

Continued Study of the Metabolism of d-Lysergic Acid Diethylamid

- 1. Studies of the metabolism of d-lysergic acid diethylamid (ISD) are complicated by the fact that the effective doses are in nicrogram quantities.

 Tagging the molecule with radioactive or with stable isotopes therefore assumes an extraordinary importance since only by this means is there any likelihood of obtaining information in a relatively short time. The over-all plan will be to incorporate into the molecule suitable atoms to serve as tags and to administer it to experimental animals in whose tissues the tagged atoms can be identified after various time periods. By combining several methods of tagging, deductions can be made as to the fate of the intact molecule or certain fragments of it. This approach requires the coordinated work of a team representing experts from a number of fields. We are fortunate enough to have such a group of trained individuals representing pharmacology, biochemistry, synthetic organic chemistry, and biophysics.
- 2. Synthesis of ISD and related compounds. The chemical nature of the compound makes it a difficult one to work with. Knowledge of the metabolism of ISD may be gained either by studies of this molecule suitably tagged or by studies of lysergic acid or various derivatives in which isotopes have been introduced at proven locations.
- 3. Several isotopes show promise as possible tags for use in the LSD molecule. Radiocarbon (carbon 14) and tritium (hydrogen 3) are of exceptional interest because these two elements make up a large part of the molecule. Both can be obtained with very high specific activity and therefore may be able to supply sufficient radioactivity so that microgram quantities can be traced in



- 2 -

the body. Heavy nitrogen (nitrogen 15) has many advantages; however, as a ring element, synthesizing it into the molecule will be an exceptionally difficult feat.

- 4. The synthetic chemical program is under the direction of Dr.

 Lecturer in Chemistry. He will be assisted by Dr.

 post
 doctoral fellow in chemistry coming this fall from the University of
 and by a graduate student to be appointed.
 - what the body does with ISD. The percentages of a dose of ISD retained in many other organs and tissues of the body will be measured. The pattern of excretion is important. Information as to what chemical alterations are induced by the metabolic activity of cells in the central nervous system or in the liver or in the muscle will be sought. Because of the ability of this molecule to produce schizophrenic-like disorganization in normal humans, the concentration of ISD in the central nervous system will of course have a prime interest. One task will be to discover whether concentration differences exist in various parts of the central nervous system.
 - 6. The over-all budget is thus \$34,100.00 plus the allowance for university overhead.





B

PROPÓSED BUDGET

For Grant for the Third Year;

October 1, 1955 to September 30, 1956.

Salaries and Wages	\$19,000.00
Permanent Equipment	2,000.00
Materials and Supplies	2,000.00
Travel	500.00
Contingencies	500.00
Dr. Chemical Studies)	7,000.00
C	\$31,000.00
Overhead at 10%	3,100.00
	\$34,100.00

FISCAL YEAR 1955

PROGRAM FOR SUBPROJECT 46

CUMULATIVE FINANCIAL STATUS

For Grant as of September 30, 1955

	Approved Eudget August 31	Estimated to September 30
Salaries and Wages	\$20,900.00 \$24,277.03	\$26,077.00
Permanent Equipment	10,000.00 10,888.67	11,088.00
Materials and Supplies	4,000.00 6,171.47	6,271.00
Travel	1,000.00 1,213.61	1,213.61
Overhead ·	5,677.00 5,677.00	5,677.00
Contingencies	3,373.00 450.00	450.00
Dr. Chemical Studi	ies) 17,500.00 13,860.51	14,060.00
Totals	\$62,450.00 \$62,538.29	\$64,836.61

•	August 31, 1955	Estimated to September 30
Total received to date	\$62,450.00	\$62,450.00
Expenditures	62,538.29	64,836.61
Balance	\$88.29 credit	\$ 2,386.61 credit

I have arranged and acquoised the submitted



Dura; -

2 FILE 46-59 I hereby acknowledge receipt of the following checks: in the amount of \$29,803.10, in the amount of \$1,168.12, Treasurers check Treasurers check in the amount of \$23,033.34, Treasurers check in the amount of \$917.34, Treasurers check (four) checks drawn on to Selsta 6 1981

16 September 1955

MOKRAHOUM FOR: CHIEF, FINANCE DIVISION

VIA

TSS/Budget Officer

SUBJECT

MEULIRA Subproject 46, Invoice #2, Allotments 5-2502-10-001 & 6-2502-10-001

1. Invoice #2 is attached covering the above subproject.
This is a final invoice. It is requested that payment be made as follows:

G to cashier's checks drawn on a bank, payable to the second for v917.34.

2. The checks should be forwarded to Chief, TSS/Chemical Division, through TSS/Budget Officer, no later than 30 September 1955.

3. The two invoices covering this subproject aggregate \$35,776.00, and make use of the balance of the FY 55 funds, plus the FY 56 funds obligated to date under this subproject. Since it is expected that additional FY 56 funds will be obligated under this subproject, the files on this project should not be closed.

I CERTIFY THAT FUNDS ARE AVAILABLE:

CHANGE TO ALL DIMENT No. 6-2501-,0-001 20,716-00 8

SIDNEY COTTLIES

Chief TSS/Chemical Division

Attachments: Invoice & Certifications

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AMOUNT DE 52234

Distribution:
Orig & 2 - Addressee
1 - Comptroller

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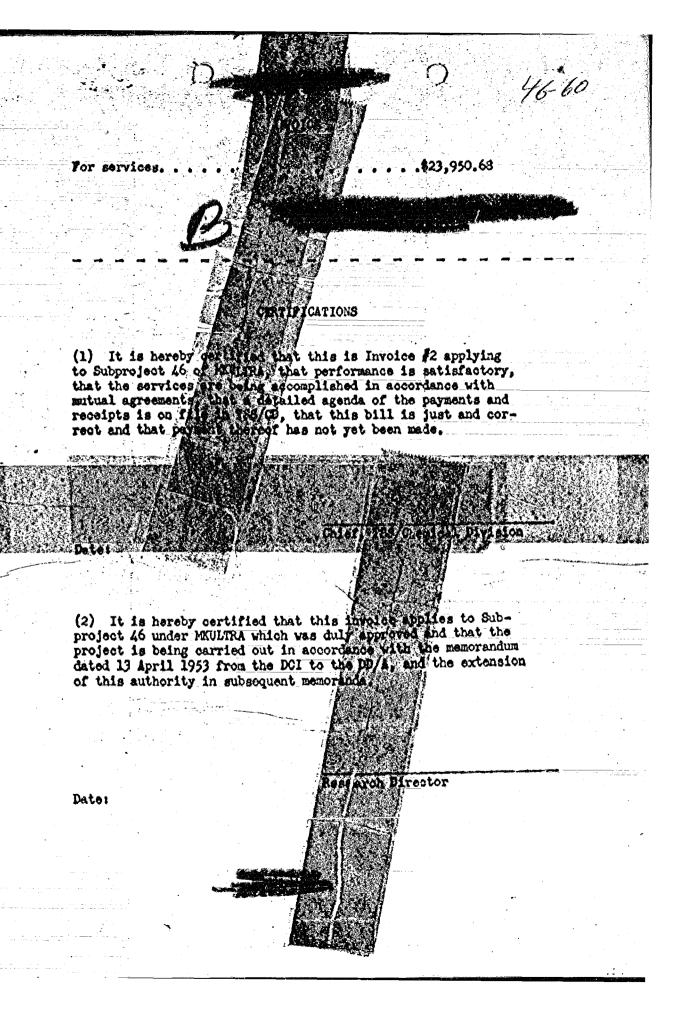
TS3/CD (13 September 1955)

14:55

BECEIN

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REGEIV



9 August 1955

MONTH FOR 1 CONFIROLLIN

KOITIMITYA

s Finance Division

MULIRA, Subproject 46, Additional Authorisation No. 2

Under the authority granted in the momorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memorands, Subproject 46 was previously approved. Under the same authority an additional sum of \$20,776.00 has been authorised to cover the subproject's expenses, (thereby bringing to a total of \$20,776.00 funds obligated during FI 56) to be charged to Allotment 6-2502-10-001.

> SIDERY CONTLINE Chief : TSS/Chemical Division

Dates

APPROVED YOU COLICATION OF PUNDS!

Research Director

Distributions

Orig & 2 - Addressee

1 - TSS/00

- TSS/FASB

1 - TSS/**S** 2 - TSS/CD





I CERTIFY THAT FUNDS ARE AVAILABLE OBLIGATION REFERENCE N. JOY CHARGE 12 6-2503-10-001

MEMORANDUM FOR: THE RECORD

Addendum to Subproject 17 and 46

1. The purpose of this addendum is to set forth the mutual administrative responsibilities of the contractor and sponsor.

The above subprojects represent the research program financed under MKULTRA, covering the period through 31 October 1955.

mas requested the University to them a summary accounting of monies received from the Also, they requested the return of any unexpended funds received under a grant from the

- 4. Title to any permanent equipment purchased by funds granted the University shall be retained by the University in lieu of higher overhead rates.
- 5. It was mutually agreed that documentation and accounting for travel expenses which are reimoursable by the University shall conform with the accepted practices of that Institution.
- 6. It was agreed that technical reports reflecting the progress of the research program shall be submitted at mutually acceptable intervals.

SIDNEY GOTTLIES Chief

TSS/Chemical Division

APPROVED:

Distribution: Orig & 2 - TSS/CD

		\circ	MEMORANDUM RECE	IPT O_	APR 1 3 19	155
TO:					DATE .	
FROM			•		Sel. 46	
SUBJE	ECT:	w.		*	46	63
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MAR 1			CERTIFICATE \		#46_	
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MAR 11	I hereby certif		Cashier's Check	i	#.46_	
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FROM:	<u>.</u>		•	Julian	6. · · · · · · · · · · · · · · · · · · ·
- T- SUBJECT:			•	,	46-64
I heret	by acknowledge re	eceipt of the foll	owing:		70 0/
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	CHECK.	IN THE AMOUN	T DF \$451.66		
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TOFORM_NO _ 36-66 MAR 1949					
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drawn on			the amount o		D.
drawn on			the amount o		Ą

Date: Copil 14, 1955

1 April 1955

MEMORANDAL FOR: CHIEF, FINANCE DIVISION

AIY

785/Budget Officer

SPJECT

roject Mulina, Subproject No. 46.
Invoice \$1, Allotment 5-2502-10-001.

Invoice No. 1 for Subproject 46 of Project MULTRA is attached. Other invoices will follow later. It is requested that payment be made by two cashiars checks, one is the amount of \$11.360.66. and one for \$453.66. payable to will should be sent to three, its/CD through Tsb/Budget Officer by Vednesday, 6 April 1955.

SIDNEY GOTTLIES Chief TSS/Chemical Division ittachments: Invoice & Certifications Distributions Orig & 2 - Addressee THE AMOUNT OF 8/1366 RECEIVED APR 1 3 1955 1 - Comptroller 11 - TSS/FASB 1 - TSS/CD 1 - Chrono THE AMOUNT OF \$ 459.66 I CERTIFY THAT FUNDS ARE AVAILABLE: OBLIGATION REFERENCE No. 5.7501-10-101 CHARGE TO ALLOTMENT No. A APR ENTO AUTHORIZING OFFICER



31 March 1955

\$11.825.32

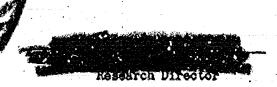




(1) It is hereby certified that this is Invoice No. 1 applying to Subproject 46 of Project MAULTRA, that performance was satisfactory, that the services were accomplished in accordance with mutual agreements, that a detailed agends of the payments and receipts are on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

SIDNEY COTTLIKS Chief, TSS/CO

(2) It is hereby certified that this invoice applies to Subproject 46 under Project MKULTRA which was duly approved and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DGI to the DD/A, and the extension of this authority in subsequent memorands.





_3338P

21 Hareh 1955

MOURINDON YOU COLPINOLLER

ATTENTION

· Muence Division

SUBJECT

Project HKULTRA, Sabproject 46

today the authority granted in the Memorandus dated 13

April 1953 from the DII to the DD/A, and the extension of this
authority in ambacquent removands, Subproject 46 has been approved, and \$15,000.00 of the over-all Project MEULTRA funds
have been obligated to cover the subproject's expenses and should
be charged to Allotsent 5-2502-10-001.

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I CERTIFY THAT FUNDS ARE AVAILABLE:

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179

5-2502-10-001

1 APR ENTO

O. The state of

DRAFT: 22 March 1955 4667

MEMORANDUM FOR: THE RECORD

SUBJECT

: Project MKULIRA, Subproject 46

1. The scope of this research program is intended to cover work to be denowith ISD and related compounds by Professor at miversity for a period of one year terms at the project will be handled through

2. The general objectives of this project are directed at the elucidation of the site and mechanism of action of LSD by use of isotopically tagged molecules, the establishment of adequate methods for isolating LSD and its metabolites from biological materials, and a method for identifying these compounds.

3. Professor has available to him at a highly competent group of scientists of international reputation encompassing the fields of physical and organic chemistry in addition to those of medicine and psychology. He plans to use these people as informal consultants in the work.

4. The funds for this project include \$10,500.00 for the synthetic tagged ISD, \$20,773.00 for metabolic studies on such compounds, \$3,127.00 for the 10% University overhead charge and \$1,376.00 for 4% service charge by

Therefore, the total cost for this investigation will not exceed \$35,776.00 for a period of one year. At the University, plus \$600.00, represent time, the sum of \$15,000.00, represent time, the sum of \$15,000.00 fee to the total will be committed. The balance of the total will be committed at a later date.

5. This project will be completely unclassified after it

APPROVED FOR OBLIGATION OF FUNDS:

TSS, Chemical Division

APPROVED:

Research Director

Date: 24 rum Ss

Attachment: Proposal

Chief, TSS/Chemical Division

Original Only.

-2-

APPROVED FOR ADDITIONAL APPROPRIATION OF \$20,776.00:

Research Director

Date:

- **95**555596

Personnel involved in the second year of the LSD project.

46-67

1. Metabolism, Dr.

his intends to undertake graduate work on the metabolism of certain drugs in the liver, using a liver perfusion technic. is just starting this work and has an interest in examining lysergic acid derivatives.

- A. Part-time-technician-for-help-with-carbon counting is needed.
- 2. Counters and biophysics and consultant, Dr. Part time.
- 3. Neuropharmacology, Dr. part time; Mr. part time; a graduate student -- Miss
 - 4. Isotope Biochemistry consultant, Dr. part time.
- Dr. Synthetic Organic Chemistry, under the general direction of Dr. Dr. a graduate student in the Chemistry Department.
 - 6. Clinical Consultant, Dr
 - 7. Coordinator, Dr

The duties of our part time neuropharmacologist, Dr. velocity being taken over by Dr. instructor in pharmacology.

The part-time services of our biophysicist, Dr. who is temporarily at the University in are being taken over by Dr. instructor in biophysics.

Personnel	Dr. \$5800	
	Dr 1000	i
N	Mr 4500	i
	1200	
	Dr. 600	
`	Dr. 1000	
		:
	Total \$14,100	

Budget	10/1/53-9/30/5	5410/1/54-9/30/55	
Personnel Materials & Suppl Equipment Travel ChemistryDr Contingency Overhead at 10%	\$ 9,000 2,000 5,000 500 7,000 2,000 2,550	\$ 11,900 2,000 5,000 500 10,500 1,373 3,127	
	\$28.050	\$34,400	

SCHEDULE FOR - DISBURSEMENT

# 46	University of
1 September 1958	\$5,830.00
1 December 1958	\$5,830.00
1 March 1959	\$5,830.00
1 June 1959	\$5,830.00
1 September 1959	\$5,830,00
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1 March 1960	\$5,830.00
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