

61-1

**Purpose:** To study the role of the human brain in overall adaptive behavior. Specifically, to show the relationship of changes in behavior due to stress (mental disorders, sensory deprivation, peptic ulcers, threatening life situations, etc.) to changes in behavior brought about by actual loss of cerebral tissue (MOLTRA 61).

**Initiated:** Original research program initiated in 1956 as part of [REDACTED] project. Current research initiated in August 1960.

**Contractor:** Dr. [REDACTED] as a grantee of the [REDACTED]

**Cost:** \$60,797.36. (This is the last year in which this activity will be funded by the Agency.)

**Status:**

61-2

OFFICE OF THE BUSINESS MANAGER

November 20th, 1961

#1150

9/1/60 - 8/31/61

Principal Investigator: Dr. [REDACTED]

Contribution to Fund

\$ 58,459.00

Expenditures:

Salaries:

[REDACTED]	Research Assistant	\$ 12,499.92	
[REDACTED]	Research Associate	8,750.00	
[REDACTED]	Research Assistant	4,550.00	
[REDACTED]	Research Assistant	400.00	
[REDACTED]	Technician	3,566.25	
[REDACTED]	Technician	466.65	
[REDACTED]	Technician	358.32	
[REDACTED]	Lab. Assistant	499.00	
[REDACTED]	Secretary	4,250.00	
[REDACTED]	Secretary	3,366.64	
[REDACTED]	Secretary	325.00	
[REDACTED]	Psychologist	287.93	
[REDACTED]	Consultant	500.00	
[REDACTED]	Consultant	500.00	
[REDACTED]	Consultant	250.00	
[REDACTED]	Consultant	250.00	
[REDACTED]	Consultant	250.00	
[REDACTED]	Secretary, Secretary	15.60	
[REDACTED]	Typist	1,545.00	
[REDACTED]	Typist	1,046.09	
[REDACTED]	Security	931.55	
[REDACTED]	Pension Plan - 5% of \$38,982.78	1,949.14	\$ 46,577.09

Travel:

[REDACTED]		152.13	
[REDACTED]		316.51	
[REDACTED]		321.17	
[REDACTED]		39.08	
[REDACTED]		208.38	
[REDACTED]		44.95	1,075.22

Equipment:

Steel Folding Table (Used)	27.50	
Reference Books	98.60	126.10

Consumable Supplies:

Supporting Schedules and		2,997.40
Accounts as file, available for audit.		

Have examined and approved expenditures.

[REDACTED] Chief, [REDACTED] Division

61-3

Page 2

OFFICE OF THE BUSINESS MANAGER

November 20th, 1961

#1150

5/1/60 - 8/31/61

Principal Investigator:

Other Expenses:

Experimental Subjects

516.60

Indirect Costs - 14% of \$51,280.00

7,179.00

\$ 58,471.41

Balance - 8/31/61 (Overdraft)

(\$ 12.41)

\*Overdraft transferred to other University funds

Certified Correct:

Business M

61-4  
61

September 20, 1960

[REDACTED] b

Gentlemen:

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

Treasurer's Check No. 177038 drawn on [REDACTED] for \$58,459.00 dated September 16, 1960 E

Treasurer's Check No. 255091 drawn on [REDACTED] for \$2,338.36, dated September 16, 1960. E

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

Yours truly,

Encl.  
Checks (2)

61-5

1 September 1960

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSD/Budget Officer

SUBJECT : MCULTRA, Subproject 61, Invoice #6  
Allotment Number 1525-1009-1902.

1. Invoice No. 6 covering the above subproject is attached. Payment should be made as follows:

Cashier's check in the amount of \$58,459  
payable to [redacted] B  
drawn on [redacted] bank. E

Cashier's check in the amount of \$2,338.36 pay- B  
able to [redacted]  
drawn on [redacted] bank. E

2. Please forward the checks to Chief, TSD/Research Branch through TSD/Budget Officer, no later than Thursday, 8 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.

[redacted] A  
Chief  
TSD/Research Division

Attached:  
Invoice & Certifications

E  
Distribution:  
Orig & 2 - Addressee

I CERTIFY THAT FUNDS ARE AVAILABLE;  
OBLIGATION REFERENCE NO. 417  
CHARGE TO ALLOTMENT NO. 105-1009-1912

CHECK # 255091 THE AMOUNT OF \$ 2338.36  
RECEIVED SEP 19 1960

A  
E  
CHECK # 127038 THE AMOUNT OF \$ 58,459.00  
RECEIVED SEP 19 1960

61-5

INVOICE

For services

\$60,797.36

[REDACTED]

B

CERTIFICATIONS

(1) It is hereby certified that this is Invoice No. 6 applying to Subproject 61 of MKULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is filed in TSD/RB, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSD/Research Branch

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

(2) It is hereby certified that this invoice applies to Subproject 61 under MKULTRA which was duly approved and the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

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

[REDACTED]



61-6

29 August 1960

MEMORANDUM FOR: COMPTROLLER  
ATTENTION : Finance Division  
SUBJECT : MKULTRA, Subproject 61

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 61 has been approved and \$60,797.36 of the over-all MKULTRA project funds has been obligated to cover the subproject's expenses. This obligation of funds should be charged to Allotment 1925-1009-1902.

A   
Chief  
TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS:

  
Research Director

Date: 29 AUG 1960

I CERTIFY THAT FUNDS ARE AVAILABLE;  
OBLIGATION REFERENCE No. 417  
CHARGE TO ALLOTMENT No. 1925-1009-1902

  
AUTHORIZING OFFICER

Distribution:  
Orig & 2 - Addressee



61-7

Budget for Studies on the [REDACTED]

For 12 Months: September 1, 1960 through August 31, 1961

Animals (Purchase \$800; Maintenance \$500)	\$1300.00
Chemicals	1700.00
Glassware and Apparatus	1150.00
Books	390.00
Apparatus for scanning EEG alpha waves for brain function studies	4290.00
Special Payments for Experimental Subjects (for brain function studies)	1800.00
Overhead (approximately 6%) (Includes retirement and Social Security)	3329.00
	<u>\$13959.00</u>

Salaries

Dr [REDACTED]	
Dr [REDACTED]	
[REDACTED] (Technician)	
[REDACTED] (Technician)	
Secretary-typist	
Biochemical Technician	
Psychological Technician	
Part-time Cleaner	
	\$44,500.00
	<u>\$58,459.00</u>

Respectively Submitted,

[REDACTED]

[REDACTED]

[REDACTED] Professor of Medicine

61-7

Revised [redacted]  
by authority of: 187475  
date: June 1977

FP INFDET: CL BY 187475  
L. [redacted]

DRAFT [redacted]  
29 August 1960

A

MEMORANDUM FOR THE RECORD

SUBJECT: Continuation of Project MKULTRA, Subproject 61

C 1. The purpose of this Subproject is for support for one year of Dr. [redacted] studies on the role of the human brain in overall adaptive behavior. It has been shown that changes in behavior due to various kinds of stress (sensory deprivation, threatening life situations, mental disorders, peptic ulcers, etc.) are comparable to those behavioral changes which are brought about by actual loss of cerebral tissue. In the course of this research new techniques of measurement and new instrumentation is being developed with applications in other areas of TSD/ [redacted] interests. G

2. It is anticipated that this will be the last year in which this research activity will be funded by us. Although several portions of the work have been and will continue to be supported from other sources, it is felt that Dr. [redacted] and his group can obtain total research support for continuing work in this area from other Government and private sources after this next year. C

3. [redacted] shall function as cover and cutout for this project. The attached proposal indicates a cost of \$58,459 for one year. To this must be added \$2,338.36 which represents the 4% service charge due to the cutout. The cost of the project for one year will therefore not exceed \$60,797.36. Charges should be made against allotment #1525-1009-1902. B

[redacted] 187475

61-7

Authority of: 187475

June 1977

4. [redacted] will request [redacted]

B

[redacted] to Submit to them a summary accounting on an annual basis of all monies received from the Society. Also, it has been requested that any unexpended funds be returned as soon as possible upon the close of the grant year.

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

6. In connection with travel under this project, it is agreed that the Agency will accept the travel documentation and accounting which conform with the practices of the University.

[redacted]

A

Chief  
TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS:

[redacted]

C

Research Director

Date: 5/31/60

Attached:  
Proposal and Budget

Distribution:  
Orig only.

ended to [redacted]  
[redacted] 187475

CL 54 187475  
- 2 -

61-7

Proposed Activities from September 1, 1960 through August 31, 1961 of the

[REDACTED] Study Group [REDACTED] B

under the direction of [REDACTED] C

The group will continue to investigate the role of the central nervous system in human disease.

1. One branch of these activities will be concerned with extending and analyzing a phenomenon established in previous studies, that the functional capacity of the central nervous system is impaired following prolonged periods of inadequate and unsuccessful adaptation. Two projects will be carried out. The first is an extensive analysis and comprehensive formulation of data already gathered in which the highest integrative function of patients diagnosed as having chronic [REDACTED], and of patients with prolonged [REDACTED] and a severe [REDACTED] were assessed. As the analysis proceeds additional psychological tests and observations of such subjects will be required. The second is concerned with the observation that subjects with [REDACTED] as well as ostensibly intact patients with prolonged [REDACTED] are defective in their capacity to form "temporary cerebral connections" or "conditioned reactions" as demonstrated by the electroencephalograph. These observations will be extended to include hospitalized patients with schizophrenic reactions, patients with lesions of the brain in regions other than the cerebral hemispheres, and subjects who are experiencing severe stress and/or anxiety, especially in subjects who are adapting to a new environment.

2. Studies designed to examine the hypothesis that the mediator substance of axon reflex vasodilatation (neurokinin) is implicated in the mechanism of a variety of disease states.

[REDACTED]

61-7

a) It has been established that neurokinin is present in increased amounts in the painful and tender regions of the scalp during vascular headache of the migraine type. Further characterization of the pharmacodynamic and biochemical features of this subcutaneous perfusate will be carried out. Also, a laboratory method will be sought for screening of agents possibly useful in treatment of migraine headache. This method would be based on the properties of agents that antagonize neurokinin or the neurokinin forming enzyme.

b) Attempts will be made to measure the neurokinin content of perfusates and "washes" of abdominal viscera before and during interviews dealing with aspects of the patients' life situation that are particularly threatening. Patients with colostomies or ileostomies with and without ulcerative colitis will be one group studied. Subcutaneous perfusate of urticarious regions of skin will also be studied.

3. Biochemical and pharmacological studies of neurokinin will continue.

a) Methods are now being developed to prepare large quantities of neurokinin.

b) In cooperation with the Department of  purification and chemical characterization of neurokinin will be attempted.

B

c) Pharmacological studies of the properties of neurokinin will be continued.

Preliminary studies have indicated that neurokinin is antagonized in vitro by the steroid hormones of the adrenal cortex and by salicylate. This observation may be pertinent to the anti-inflammatory action of these agents. Studies of the action of these agents on the enzyme that forms neurokinin will be undertaken. Also it has been observed that LSD-25, an agent that induces delirium when administered in extremely small amounts, strongly potentiates one apparent action of neurokinin (stimulation of respiration). Related substances



61-7

BOL, UML, do this to a lesser degree. These observations are particularly interesting in view of our observation of the abnormally high levels of neurokinin-forming enzyme in cerebrospinal fluid collected from patients with [REDACTED]. Also, preliminary observations of the behavior of unanesthetized cats receiving intraventricular injections of neurokinin suggest that a catatonic state is induced. These observations will be extended in an attempt to gain additional background information to guide studies with human subjects concerning the role of neurokinin in the impairment of the highest integrative functions of the brain observed in those with psychosis. Thus a number of agents will be examined in the search for antagonists and potentiators of neurokinin.

4. a) A book length monograph, tentatively entitled [REDACTED] summarizing and reporting the previous activities of this group will be prepared.

b) A revision of the book [REDACTED] under way by Dr. [REDACTED]

61 F  
61-8

January 6, 1960

Mr. [redacted] Business Manager [redacted]

Dear Mr. [redacted]

Enclosed please find our check in the amount of \$14,614.75 which represents the third payment of the grant made to your institution for work in Human Ecology directed by Dr. [redacted]

Sincerely,

[redacted] Assistant Treasurer [redacted]

Enc.

61-9

61 F

September 30, 1959

Mr. [REDACTED] Business Manager

Dear [REDACTED]

Enclosed please find our check in the amount of \$9,614.75 which represents the second payment of the grant made to your Medical College for work in [REDACTED] directed by Dr. [REDACTED]

Sincerely,

[REDACTED]  
Assistant Treasurer

Enc.

61-10

61 F

July 1, 1959

[Redacted] a

Dear Mr. [Redacted] b

Enclosed please find our check in the amount of \$14,614.75 which represents the first quarterly payment of the grant made to your Medical College for work in [Redacted] directed by Dr. [Redacted] c

Sincerely,

[Redacted] c

Assistant Treasurer

Enclosure

61

61-11

September 19, 1960

Memorandum to [redacted] C

Subject [redacted] B

Attached is the accounting for the period July 1, 1959 B  
 through June 30, 1960. We forwarded directly to [redacted] the  
 sum of \$53,459.00 and held back \$5,000.00. This was at the request  
 of Dr. [redacted] who was desirous of having Dr. [redacted] work C  
 with his project. Dr. [redacted] was retired from the College and  
could not be put on their payroll. He then became an employee  
 of the [redacted] and was paid from the \$5,000.00 in D [redacted] account.

B

C

[redacted]

C

d

I have examined and approved the submitted  
expenses

61-12

[Redacted]

Clerk  
Chemical Division

C 7/26/60

SUMMARY OF EXPENSES ON [Redacted] ACCOUNT FOR FISCAL YEAR  
1959-60

B

Total Salaries including special payments	\$31,902.64
Equipment	1,182.54
Supplies	1,411.89
Reference Library	133.64
Miscellaneous (including malpractice insurance)	1,203.24
Travel	415.53
Rental charges [Redacted]	10,650.00
Telephone	381.33
Administrative Fee	<u>5,024.91</u>
Total Expenditures	\$51,935.76
Amount obligated for unpaid bills and claims fee not yet deducted	<u>4,643.92</u>
GRAND TOTAL	\$56,579.68

Amount received from Society for the investigation of [Redacted]  
(including balance carried over from previous year) \$59,784.36

Total charges 54,599.60

Free Balance 3,184.68

In addition to the above the sum of \$5,000.00 was paid directly to  
Dr. [Redacted] in the form of salary in monthly installments during  
this period.

The above accounting is a true statement of  
expenses on the above account as showed to me.

[Redacted]

61-13

RECEIPT

I hereby acknowledge receipt of the following:

Cashier's Check No. A222106, in the amount of \$58,459.00 drawn on F  
the \_\_\_\_\_ dated Aug. 21, 1959,  
payable to \_\_\_\_\_ B

Date: 8-31-59



61-15

11 August 1959

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

SUBJECT : MKULTRA, Subproject 61, Invoice #5

1. Invoice No. 5 for the above subproject is attached. Payment should be made as follows:

Cashier check in the amount of \$58,459.00, drawn on [redacted] bank and made payable to the [redacted]

2. Please forward check to Chief, TSS/Chemical Division through TSS/Budget Officer by Friday, 21 August 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.

CHECK PAYMENT IN AMOUNT OF \$58,459.<sup>00</sup>  
RECEIVED 25 AUG 1959

Chief  
TSS/Chemical Division

13 AUG 1959

ATTACHMENTS:

Invoice & Certifications

Distribution:

Orig & 2 Addressee  
1 FASB/TSS

1 CERTIFICATE OF FUNDS ARE AVAILABLE: 59,198.20

CHECK NO. 2710

CHECK NO. 4-2502-15-902

1 CERTIFICATE OF FUNDS ARE AVAILABLE: 38,260.80

CHECK NO. 45

CHECK NO. 6525-1104-4902

61-15

[REDACTED]

INVOICE

For services

\$58,459.00

[REDACTED] B

CERTIFICATIONS

(1) It is hereby certified that this is Invoice #5 applying to Subproject 61 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 61 under MKULTRA which was duly approved and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

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

[REDACTED]

61-16

2 July 1959

MEMORANDUM FOR: COMPTROLLER

ATTENTION : Finance Division

SUBJECT : MKULTRA, Subproject 61, Additional  
Authorization #45

Under the authority granted in the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda, Subproject 61 has been approved and \$38,360.80 of the over-all MKULTRA project funds has been obligated to cover the subproject's expenses. This obligation of funds should be charged to Allotment 0525-1009-4902.

[Redacted Signature]

Chief  
TSS/Chemical Division

APPROVED FOR OBLIGATION  
OF FUNDS:

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

Date:

Distribution:

Orig & 2 - Addressee

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

TSS/CD [Redacted]

61-17

29 June 1959

MEMORANDUM FOR: COMPTROLLER

ATTENTION : Finance Division

SUBJECT : MKULTRA, Subproject 61, Additional  
Authorization #4

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 61 has been  
approved and \$20,198.<sup>59</sup>20 of the over-all MKULTRA project funds  
has been obligated to cover the subproject's expenses. This  
obligation of funds should be charged to Allotment 9-2502-75-902.

[Redacted Signature]

Chief  
TSS/Chemical Division

APPROVED FOR OBLIGATION  
OF FUNDS:

Research Director

Date:

Distribution:

Orig & 2 - Addressee

- 1 - TSS/ [Redacted] G
- 1 - TSS/ [Redacted]
- 2 - TSS/ [Redacted]

TSS/CD/ [Redacted] A

61-18

61  
X.

January 9, 1959

Mr. [REDACTED] C

Dear Mr. [REDACTED] B

Enclosed please find our check in the amount of \$14,614.75 which represents the third quarterly payment of the grant given to the [REDACTED] College to support the work of Dr. [REDACTED]

Sincerely, C

[REDACTED] C  
Executive Secretary

[REDACTED] C  
Enc.

61-1952

SUMMARY OF EXPENSES

958-59

Total Salaries including special payments	\$43,217.88
Equipment	75.65
Supplies	1,270.66
Reference Library	49.20
Miscellaneous (including malpractice insurance)	273.12
Travel	779.36
Rental charges for [redacted] B	9,790.00
Telephone	298.60
Administrative Fee	<u>2,879.17</u>
Total expenditures	58,633.64
Amount obligated for unpaid bills	<u>4,873.83</u>
GRAND TOTAL	\$63,507.47

Amount received from [redacted]	<u>\$64,459.00</u>
Total Expenditures	<u>63,507.47</u>
Free Balance	951.53

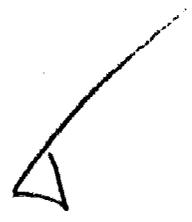
I have examined and approved the submitted expenditures.

[redacted signature]

Chief  
TSS/Chemical Division

Date: 8 Oct 59

A



#2.  
2/2/59

61-20

BUDGET  
1959-1960

Salaries	45,650.00
Retirement and Social Security	2,934.00
Office and Technical Supplies and materials	1,750.00
Travel and Meetings	500.00
15% University Overhead	<u>7,625.00</u>
TOTAL	58,459.00



0

Downgraded by authority of: 187475  
date: June 1977

61-21

E2 IMPDET; CL BY 187475

DRA  
25 June 1959

MEMORANDUM FOR: THE RECORD

SUBJECT : Continuation of Project MKULTRA,  
Subproject 61

1. The purpose of this subproject is the continued support of Dr. [redacted] studies on brain damage in human beings. Work in this field has made good progress during the past year. Highlights relating to this are quantitative clinical demonstrations of a much more precise nature than was ever before possible of the actual performance deficit brought about by suppression of the activity of various areas of the central nervous system. New methods of measurement of circulation changes involving the use of implanted thermistors of a very sensitive type have served to reduce the uncertainty of many of the experiments in this field of research.

2. During the coming year it is anticipated that many of the investigative techniques worked out in the past will begin to show their effects in terms of a vastly increased rate of significant data production.

B 3. This project has been reviewed and approved by the Board of Directors of the [redacted]. It should be noted that Dr. [redacted] receives no stipend under the attached budget and that several portions of the work to be covered will be supported by other than government sources. C

4. The cost of the program for a period of one year starting 1 July 1959 is estimated to be \$58,459.00 [redacted] B

B [redacted] will be used as a cutout for transferring the money [redacted] B [redacted] of the funds required for one year \$20,198.20 is being obligated at this time. Charges should be made against Allotment 9-2502-75-902. Remainder of funds required will be obligated when FY60 funds become available.

Downgraded by authority of: 187475  
date: June 1977

E2 IMPDET; CL BY 187475

Downgraded to: [redacted]  
by authority of: 187475  
date: June 1977  
E2 IMPDET; CL BY 187475

61-21

5. [redacted] has requested [redacted] to submit to them a summary accounting on an annual basis of all monies received from [redacted]. Also, it has been requested that any unexpended funds be returned as soon as possible upon the close of the grant year.

B

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

7. In connection with travel under this project, it is agreed that the Agency will accept the travel documentation and accounting which conform with the practices of the University.

[redacted]

Chief  
TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS:

APPROVED FOR ADDITIONAL APPROPRIATION X  
OF \$38,360.80.

[redacted] C  
Research Director

[redacted] C  
Research Director

Date: 6/30/59

Date: 7/2/59

Attachment:  
Budget

Distribution:  
Original only

Downgraded to: [redacted]  
by authority of: 187475  
date: June 1977  
E2 IMPDET; CL BY 187475



61-23

2 October 1958

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

SUBJECT : MKULTRA, Subproject 61, Invoice #4  
Allotments 8-2502-10-001 and 9-2502-75-902

1. Invoice No. 4 for the above subproject is attached. Payment should be made as follows:

Two cashier's checks, one in the amount of \$35,567.96, obligated under this subproject during FY 59, and one in the amount of \$22,891.04, obligated under this subproject during FY 58, both drawn on [redacted] and made payable to [redacted]

2. Please forward the checks to Chief, TSS/Chemical Division through TSS/Budget Officer by Friday, 10 October 1958.

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

[redacted signature] A  
Chief  
TSS/Chemical Division

Attachments:  
Invoice & Certifications

Distribution:  
Orig & 2 - Addressee  
1 - TSS [redacted] G  
2 - TSS [redacted]  
TSS/CD [redacted] Oct 58) A

[redacted]

① [REDACTED] 61-24  
**INVOICE**

**For services**

**\$58,459.00**  
[REDACTED]

**CERTIFICATIONS**

(1) It is hereby certified that this is Invoice #4 applying to Subproject 61 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 61 under MKULTRA which was duly approved and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

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

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

[REDACTED]

6/

61-25

October 2, 1958

[Redacted]

Dear Mr. [Redacted]

Enclosed please find our check in the amount of \$14,614.75 which represents the second quarterly payment of the grant given to the [Redacted] College to support the work of Dr. [Redacted]

Sincerely,

[Redacted]  
Assistant Treasurer

[Redacted]

Enc.

61-26

July 7, 1958

[Redacted]  
Dear Mr. [Redacted]

Enclosed please find our check in the amount of \$14,614.75 which represents the first quarterly payment of the grant given to the [Redacted] College to support the work of Dr. [Redacted]. The total grant for the period July 1, 1958 through June 30, 1959 is \$58,459.00.

Sincerely,

[Redacted]  
Assistant Treasurer

[Redacted]  
Enc.



61-28

NO. 67

9-2502-75-912  
ALBANY STATE

Sub. 61

DATE	DEBIT AND CREDITS	BALANCE FORWARDED	BALANCE FORWARDED	BALANCE FORWARDED
2 June 1958	<i>Investigation</i>	35,567.96		35,567.96
3 OCT 1958	<i>Invoice #1</i>		35,567.96	
			<i>Life</i>	

61-29  
1 July 1958

MEMORANDUM FOR: COMPTROLLER  
ATTENTION : Finance Division  
SUBJECT : MKULTRA, Subproject 61

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 61 has been approved and \$35,567.96 of the over-all MKULTRA project funds has been obligated to cover the subproject's expenses. This obligation of funds should be charged to Allotment 9-2502-10-001.

 A  
Chief  
TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS:

Original signed by  A  
Research Director

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

Distributions:

Orig & 2 - Addressee

1 - TSS  ✓

I CERTIFY THAT FUNDS ARE AVAILABLE:

OBLIGATION REFERENCE NO. 67

CHARGED TO ALLOTMENT NO. 9-2502-10-001

AUTHORIZING OFFICER

2 JUL  
1958

B

61-30

2 October 1958

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

SUBJECT : MKULTRA, Subproject 61, Invoice #4  
Allotments 8-2502-10-001 and 9-2502-75-902

1. Invoice No. 4 for the above subproject is attached. Payment should be made as follows:

Two cashier's checks, one in the amount of \$35,567.96, obligated under this subproject during FY 59, and one in the amount of \$22,891.04, obligated under this subproject during FY 58, both drawn on a [redacted] bank and made payable to [redacted]

2. Please forward the checks to Chief, TSS/Chemical Division through TSS/Budget Officer by Friday, 10 October 1958.

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

[redacted] Chief  
TSS [redacted]

Attachments:  
Invoice & Certifications

CHECK # A 20312 RECEIVED THE AMOUNT OF \$ [redacted] 10 OCT 1958

Distribution:  
Orig & 2 - Addressee

CHECK # A 20312 RECEIVED THE AMOUNT OF \$ [redacted] 10 OCT 1958

Dt 888	102712	600.1	2502-75-001	17.2	22,891.04	
Dt 889	000067	600.1	2502-75-902	17.2	35,567.96	
C- Cash						22,891.04
C- Cash						35,567.96
				07720		



61-32

30 June 1958

MEMORANDUM FOR: CONTROLLER

ATTENTION : Finance Division

SUBJECT : MKULTRA, Subproject 61

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 61 has been approved and \$22,891.04 of the over-all MKULTRA project funds has been obligated to cover the subproject's expenses. This obligation of funds should be charged to Allotment 8-2502-10-001

[Redacted]

Chief TSS [Redacted]

A  
G

APPROVED FOR OBLIGATION OF FUNDS:

Original signed by

Research Director

30 1958

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

Distribution:

Orig & 2 - Addressee

1 - TSS [Redacted]

I CERTIFY THAT FUNDS ARE AVAILABLE:

OBLIGATION REFERENCE NO. 2712

CHARGE TO ALLOTMENT NO. 8-2502-10-001

30 JUN 1958

AUTHORIZING OFFICER

[Redacted]

61-33

1 July 1958

MEMORANDUM FOR: CONTROLLER

ATTENTION : Finance Division

SUBJECT : MKULTRA, Subproject 61 #3

Under the authority granted in the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda, Subproject 61 has been approved and \$35,567.96 of the over-all MKULTRA project funds has been obligated to cover the subproject's expenses. This obligation of funds should be charged to Allotment 9-2502-10-001.

75-902

  
Chief  
TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS:

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

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

Distribution:

Orig & 2 - Addressee

- 1 - TSS
- 1 - TSS
- 1 - TSS
- 2 - TSS

TSS/CD,  (30 June 1958)



61-34

30 June 1958

MEMORANDUM FOR: COMPTROLLER

ATTENTION : Finance Division

SUBJECT : MKULTRA, Subproject 61

*FE*

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 61 has been approved and \$2,891.04 of the over-all MKULTRA project funds has been obligated to cover the subproject's expenses. This obligation of funds should be charged to Allotment 6-2502-10-001

75-902

*A*  
[Redacted]  
Chief  
TSS/ [Redacted] *G*

APPROVED FOR OBLIGATION OF FUNDS:

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

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

Distribution:  
Orig & 2 - Addressee

- 1 - TSS/ [Redacted] *G*
- 1 - TSS/ [Redacted]
- 1 - TSS/ [Redacted]
- 2 - TSS/ [Redacted]

TSS/CD/ [Redacted] (30 June 1958)

*A*

[Redacted]

61-35

Downloaded by [redacted] date: June 1977

DRAFT

ER IMPDET; CL BY 187475

30 June 1958

[redacted] A

MEMORANDUM FOR: THE RECORD

SUBJECT : Continuation of Project MKULTRA, Subproject 61

1. The purpose of this subproject is the continued support of Dr. [redacted] studies on brain damage in human beings. The attached proposal outlines progress in this field to date and indicates the plans for new work to be done during the coming year. In general, the current and future emphasis of the program will involve studies of metabolic and biochemical changes associated with impaired brain function related to other types of brain damage than actual tissue loss.

2. This project has been reviewed and approved by the Board of Directors [redacted]. It should be noted that Dr. [redacted] receives no stipend under the attached budget and that several portions of the work to be covered will be supported by other than government sources.

3. The cost of the program for a period of one year starting 1 July 1958 is estimated to be \$58,459.00 [redacted]. [redacted] will be used as a cutout for transferring the money to [redacted]. Charges should be made against allotment Q-2502-10-001.

4. [redacted] has requested [redacted] to submit to them a summary accounting on an annual basis of all monies received from [redacted]. Also, it has been requested that any unexpended funds be returned as soon as possible upon the close of the grant year.

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

6. In connection with travel under this project, it is agreed that the Agency will accept the travel documentation and accounting which conform with the practices of the University.

[redacted] Chief

APPROVED FOR OBLIGATION OF FUNDS:

TSS/Chemical Division

[redacted] Research Director

Date: July 1 - 1958. Downgraded to [redacted]

Attachment: Proposal & Budget by authority of: 187475

Distribution: Original only

[redacted] ER IMPDET; CL BY 187475

200/1-58

B

61-38 (3)

SUMMARY OF EXPENSES OF [REDACTED] FISCAL YEAR 1957-58

Total salaries	\$77,602.44
Special payments (Dr [REDACTED] project) = C	5,964.34
Special payments (Dr [REDACTED] project)	150.00
Equipment (Dr [REDACTED] project) - C	187.50
Supplies " " " - C	1,338.87
Supplies (Dr [REDACTED] project) /	27.00
Reference Library (Dr [REDACTED] project)	10.44
Miscellaneous (including malpractice insurance and typewriter maintenance contract - Dr [REDACTED] project)	493.05
Travel (Dr [REDACTED] project) - C	1,004.14
Travel (Dr [REDACTED] project) - C	94.73
Rental charges for [REDACTED] including July '58)	11,570.00
Telephone	545.80
Administrative Fee	<u>13,261.03</u>
Total expenditures	\$112,331.34
Amount obligated for unpaid bills (including security on Phipps House)	<u>6,022.00</u>
GRAND TOTAL	\$118,353.34

Amount carried over from previous year B	10,315.08
Amount received from [REDACTED]	<u>100,600.00</u>
	110,915.08
Overdraft	\$7,438.26
Unpaid bills carried forward to FY 1958-59	6,022.00

Amount transferred to another appropriate for payment expenditures. 1,416.26 \$7,438.26

I have examined and approved the [REDACTED] Chief TSS/Chemical Division [REDACTED] Date: [REDACTED]

61-36

January 3, 1958

Mr. [redacted] Business Manager  
[redacted]

Dear Mr. [redacted]

Enclosed please find our check in the amount of \$50,000.00  
which represents the second half payment of the grant given  
to the [redacted] to support the work of Dr. [redacted]  
in [redacted]

Sincerely,

[redacted]  
Assistant Treasurer

[redacted]  
Enc.

61-37

November 15, 1957

Mr. [REDACTED] C  
Business [REDACTED]

Dear Mr. [REDACTED] B

Enclosed is the Society's check in the amount of \$50,000.00.  
This sum represents the first half payment of the grant given  
to [REDACTED] in support the work of Dr. [REDACTED] C  
[REDACTED] The second half payment will be made  
in January 1958.

Sincerely,

[REDACTED] C  
Executive Secretary

[REDACTED] C  
Enc.

61-38

RECEIPT

I hereby acknowledge receipt of the following:

Cashier's Check #A181201, in the amount of \$30,000.00 drawn on the  
[REDACTED] dated November 8, 1957,  
payable to [REDACTED] B

Cashier's Check #A181200, in the amount of \$20,000.00 drawn on the  
[REDACTED] dated November 8, 1957,  
payable to [REDACTED] B

[REDACTED] C

Date: 13 November 1957

61-39

28 October 1957

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA: TSS/Budget Officer

SUBJECT: MKULTRA Subproject 61, Invoice No. 3,  
Allotment 8-2502-10-001

1. Invoice No. 3 for the above subproject is attached.  
Payment should be made as follows:

Two cashier's checks, one in the amount of \$30,000.00,  
and one in the amount of \$20,000.00, both drawn on a  
[redacted] bank and made payable to [redacted]

2. Please forward the checks to Acting Chief, TSS/Chemical  
Division through TSS/Budget Officer by Friday, 8 November 1957.

3. This is a final invoice. A total of \$50,000.00 was obli-  
gated under this subproject during FY 58. However since it is antici-  
pated that additional funds will be obligated for this project, the files  
should not be closed.

[redacted] A  
Acting Chief  
TSS/Chemical Division

Attachments:  
Invoice & Certifications

Distribution:  
Orig & 2 - Addressee  
1 - Comptroller

DR. 283 200772 600.1 2502-10-001 17.2 \$ 50,000.00  
CR. [redacted] \$ 50,000.00

NOV 1957

[redacted]

1191

61-39

**INVOICE**

For services

\$50,000.00

**CERTIFICATIONS**

(1) It is hereby certified that this is Invoice No. 3 applying to Subproject 61 of MKULTRA, that performance has been satisfactory, that the services have been accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Acting Chief, TSS/Chemical Division

Date:

(2) It is hereby certified that this invoice applies to Subproject 61 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:

8

8

61-39

492

8-2507-10-001

61

22-251

Authorization

50,000.00

50,000.00

22-251

Invoice #

{ 30,000  
30,000

50,000.00

419

61-40

17 October 1957

MEMORANDUM FOR: COMPTROLLER

ATTENTION : Finance Division

SUBJECT : MKULTRA, Subproject 61

Under the authority granted in the memorandum dated 13 April 1953 from the DCI to the DE/A, and the extension of this authority in subsequent memoranda, Subproject 61 has been approved and \$50,000.00 of the over-all MKULTRA project funds has been obligated to cover the subproject's expenses. This obligation of funds should be charged to Allotment 8-2502-10-001.

 A  
Acting Chief  
TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS:

  
Research Director

Date

Oct 21 1957

192  
8-2502-10-001

Distribution:

Orig & 2 Addressee

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

Study of Highest Integrative Functions: Progress Report, and Proposal  
For the Coming Year.

I. Present Status of the Study:

The investigations of the highest integrative functions are fundamentally aimed at increasing our understanding of the functions of the human cerebral hemispheres in overall adaptive behavior. They arose out of our laboratory and clinical experience during the past twenty years, and especially out of our interest in the phenomena exhibited by men exposed to extremely threatening life situations; and they were initiated during the period when we were investigating the untoward effects of Communist police procedures.

The body of evidence accumulated during these studies indicated that under extremely adverse circumstances men may develop symptoms clinically difficult to distinguish from those produced by gross brain damage or by agents that impair cerebral metabolism: lack of discrimination, poor tolerance of frustration, heightened suggestibility, illogical thinking, breakdown of defense mechanisms, mental clouding, disorientation, and frank delirium. The initial efforts to elucidate these phenomena began several years ago, and have largely been brought to a conclusion during the past twelve months.

The first step in this study was the systematic investigation of the highest integrative functions of people who had suffered damage to their cerebral hemispheres, the amount and location of which was known as precisely as possible. During the course of four years, 250 such people were studied. In order to provide them with the widest possible opportunity to expose their defects in function, many areas of their adaptive activity were explored, both outside and within the laboratory. Subjects were observed in their performance on clinical assay procedures, including some that are well known as well as others that were newly devised. They were exposed also to procedures

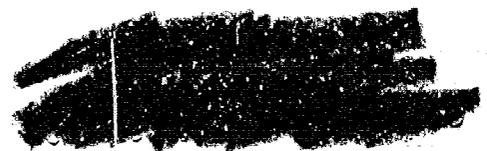
especially designed to investigate areas of behavior such as perseveration, which were of special interest. In addition to this, each was studied extensively by the usual clinical, neurological, and psychiatric methods. Finally, an extensive review was made of his life history, both before and after his brain injury, with special attention to his performance in the more complex areas of his life adjustment, such as his capacity to deal with the requirements and challenges arising in his family and in his work.

The second step in the investigation was a similar study of ostensibly intact people with no known gross damage to their cerebral hemispheres. Two groups of such people have been investigated: 50 people with disorders such as chronic anxiety, tension, depression, and schizophrenia, and 25 people with bodily illnesses such as peptic ulcer, ulcerative colitis, or migraine headaches.

II. Findings to date:

From the integration of all of the data obtained from people with damage to the cerebral hemispheres, it has been possible to define some of the adaptive functions of the human that are primarily subserved by the neopallium. These have been called the "highest integrative functions" of the organism, and they have been placed in four general categories, viz:

- (a) The intact neopallium enables a man to express his appetites, drives, and feelings in a manner appropriate to life in a complex society.
- (b) It provides him with mechanisms for the achievement of complex goals (learning, memory, logic, etc.).
- (c) It enables him to maintain a high degree of tolerance for frustration and failure when confronted by conflicting drives, and to recover promptly from the effects of frustration and failure when they occur.
- (d) It provides him with the capacity to maintain effective and well-



modulated defense reactions (i.e., repression, denying, pretending, rationalization, blaming, withdrawal, phantasy, depersonalization, obsessive-compulsive behavior, and bodily reaction patterns involving alimentary, respiratory, metabolism, etc.).

Evidence from the study of the brain-damaged indicates that these highest integrative functions are not localized within the hemispheres. They fall off in a graded fashion dependent upon the amount of hemisphere tissue that is lost, and without regard to its location. Moreover, they fall off long before less highly organized functions, such as simple memory, the ability to calculate, or the ability to carry out tasks of some complexity learned prior to the brain injury, are lost.

Evidence from the study of the chronically anxious, tense, depressed, and schizophrenic subjects indicates that their highest integrative functions, as judged by their performance on the tests and in their life adjustment, falls off in a manner not distinguishable from that of people who have sustained brain damage. They can, of course, be distinguished from people with gross brain-damage by the absence of localizing neurological signs, and by the intactness of some of their less complex functions; but in their inability to express their feelings appropriately, to utilize their goal-achieving mechanisms effectively, to tolerate frustration and failure, and to maintain well-modulated defense reactions, they are indistinguishable from those who have sustained direct damage to their brains. In many instances their functions are impaired to a degree equivalent to that produced by a large loss of hemisphere tissue (100 grams).

Similar degrees of impairment of the highest integrative functions have been found in people with disturbances of bodily adaptive reaction patterns such as peptic ulcer, which are intimately tied up with the general life adjustment.



61-41

These two groups of chronically ill people, in short, show manifestations of an impairment of their cerebral hemispheres. Because some of the disturbances of these people are transient, the impairment of their hemispheres is to some extent reversible and is said to be "functional"; but since many of their illnesses, like schizophrenia, ulcerative colitis, and chronic psychoneuroses, and their accompanying failures of life adjustment, are notoriously unremitting, it seems quite likely that some of these people have, in effect, a severe and permanent impairment of their neopallium.

This evidence of severe, and possibly permanent, impairment of the function of the cerebral hemispheres raised the question of whether other, and chemically detectable, evidences of altered brain metabolism might be found in people in whom, up to the present, only symptoms of disturbed function had been described. It seemed possible that substances associated with disturbed cerebral metabolism might appear in the spinal fluid, and might be found there in people with disturbances of cerebral function.

Therefore, the initial search was directed toward the detection, in the spinal fluid, of substances that might be related to disturbed brain metabolism.

This investigation has been unexpectedly fruitful. By exposing to beef globulin spinal fluid taken from people with known damage to the cerebrum, it has been shown that these spinal fluids contain a substance with the characteristics of an enzyme, which breaks down the globulin to a polypeptide. This polypeptide has not been identified chemically, but in biological preparations it has many of the characteristics of a polypeptide found in blister fluid and other inflammatory exudates, which has been called "bradykinin".

This enzyme has been found to be present in the spinal fluids of 45 out of 50 people with various forms of active brain damage. It has been found also in the spinal fluids of 13 out of 15 people during attacks of vascular headache. It has not been found in the spinal fluids of 50 persons who

61-411

had no evidence of disease of the central nervous system. It was found in the fluid of some persons who were experiencing such stress.

Of perhaps greatest interest, it has been found in the spinal fluids of 45 out of 50 people with active schizophrenia, but without other evidence of disease.

We believe that the finding of this enzyme-like substance and polypeptides under the circumstances described supports other evidence that metabolic disturbances occur in the brains of people with headache and schizophrenia. We expect that the same substance will be found in the spinal fluids of people with other chronic disturbances of their highest integrative functions.

It is well known that profound disturbances of the highest integrative functions, accompanied by pronounced disturbances of mood, thought, and behavior, may be produced in people by exposing them to environments to which they can make no adequate adaptation, such as concentration camps, or prison procedures aimed at interrogation and indoctrination. Therefore, it seems reasonable to infer that exposure to such a situation in itself produces an impairment of cerebral hemisphere function; and that this impairment may sometimes be very grave.

III. Proposal for the Coming Year:

1. A monograph titled [REDACTED] is planned for completion during 1958. The major goal of this publication will be to define the defects in highest level adaptive capacity that occur with disease of the neopallium, and to illustrate how these defects are similar to those produced by prolonged existence in an unadapted state. It is intended that the description of the components of the highest integrative functions will be comprehensive enough to take into account the various elements of diseases

[REDACTED]

61-41

characterized by prolonged disturbances of mood, thought, and behavior.

This project will be undertaken primarily by Dr. [REDACTED] with an editorial assistant. c

2. In order to assess further the highest integrative functions of a people with chronic illness not ostensibly involving the central nervous system, a study of a carefully chosen group of young people with diabetes mellitus will be undertaken. Data with regard to their health, personalities, and interaction with their social environment will be gathered by members of the staff under the direction of Dr. [REDACTED] using methods similar to those used in the [REDACTED] study. F Support for this investigative effort in general is being sought from other sources; but for the special psychological testing needed for this aspect of it a full-time psychological technician and a psychologist will be required.

3. The follow-up study on the [REDACTED] will likewise provide an opportunity for the study of their highest integrative functions, and an estimate of the influence of their life experiences upon this. The methods will be those that have been described; most of the necessary data are already available, and only a moderate amount of additional testing need be done.

4. A similar study, using a carefully selected group of working women, largely homogeneous in its composition, will be carried out. Records of health, attendance, and performance on the job, covering periods of more than twenty years, are available for these women. Those to be tested will be selected to include some with records of outstandingly good health and performance, some with outstandingly poor health and performance, and some whose performance was near the median in these respects. A large part of the cost of this project also will be borne by other sources.

5. In order to make a further assessment of the effect of damage to the neopallium upon general health, a group of thirty subjects with focal removals

[REDACTED]

61-211

of major and minor portions of the cerebral hemispheres will be examined to ascertain the illness episode rate of these people before and after the damage was sustained. Interest will also be centered on the manner in which this damage to the cerebrum altered the individual's perceptions of the threats and challenges presented to him by his environment.

6. The studies of the proteolytic enzymes in spinal fluid will be continued, with three immediate goals:

a. The development of a simple, readily repeatable method for the quantitative estimation of the proteolytic activity of spinal fluid. The present bio-assay technique is cumbersome and technically demanding. A simple chemical test may be possible. If such a method can be developed, a large series of measurements of proteolytic activity in spinal fluid will be undertaken, using specimens obtained from the neurological services of the [redacted] Hospital, [redacted] Hospital, and possibly the [redacted] Hospital. B

b. The appraisal of the significance of the observation that increased amounts of proteolytic activity are present in spinal fluid at some times, and in some people. The approach to this problem will be through ascertaining the effect of a sterile, injectable "anti-brodykinin" agent, in the form of chymotrypsin. The effects of intravenous, intramuscular, and perhaps intrathecal injections of this and similar substances, after suitable precautions have been taken to ascertain the safety of such procedures, will be undertaken in people with migraine headache and schizophrenia.

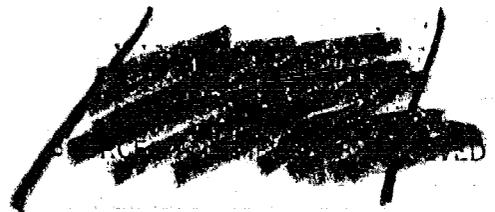
c. Pharmacological studies will be undertaken in order to establish whether or not the proteolytic enzyme observed is identical with a known bradykinin liberating enzyme.

7. Attempts to develop new methods for the study of the highest integrative functions will continue; one method now being considered is that of conditioning

61-411

the electroencephalographic response in brain-damaged persons.

8. Investigations of the local cerebral circulation will likewise be continued.



61-42

BUDGET - Study of Highest Integrative Functions  
FY 1958-1959

Director	None
Physiological Psychologist	\$11,000
Clinical Investigator, Neurologist	9,000
Research Assistant	6,500
Psychologist	7,000
Technician	3,800
Secretary	3,700
Typist	2,950
Editorial Assistant (half time)	1,700
5% Retire. Plan and 2% Soc. Sec.	2,934
Permanent Office Equipment	750
Office and Technical Supplies	1,000
Travel and Meetings	500
University Overhead, 15%	<u>2,625</u>
GRAND TOTAL	\$58,459

DRAFT

61-43

187475

Date: June 1977

17 October 1957

ES IMPDET: CL BY 187475

MEMORANDUM FOR: THE RECORD

SUBJECT: Continuation of Project MKULTRA, Subproject 61

1. The purpose of this subproject is the continued support of Dr. [redacted] studies on brain damage in human beings. The attached proposal outlines progress in this field to date and indicates the plans for new work to be done during the coming year. In general, the current and future emphasis of the program will involve studies of metabolic and biochemical changes associated with impaired brain function related to other types of brain damage than actual tissue loss.

C

2. This project was reviewed and approved by the Board of Directors of [redacted] at the meeting of 11 March 1957. It will be noted that the attached budget indicates an expenditure of \$61,805.00. Dr. [redacted] has agreed to obtain \$11,805.00 of this from other than Agency sources, lowering our contribution thereby to \$50,000.00.

B

3. The cost of the program for a period of one year starting 1 July 1957 is estimated to be \$50,000.00. [redacted] will be used as a cutout for transferring the money to [redacted] charges should be made against allotment 8-2902-10-001.

# 53,459.00

B

4. [redacted] has requested [redacted] to submit to them a summary accounting on an annual basis of all monies received from [redacted]. Also, it has been requested that any unexpended funds be returned as soon as possible upon the close of the grant year.

B

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

6. In connection with travel under this project, it is agreed that the Agency will accept the travel documentation and accounting which conform with the practices of the University.

APPROVED FOR OBLIGATION OF FUNDS:

[redacted signature]  
Research Director

A

[redacted signature]  
Acting Chief  
TSS/Chemical Division

A

Date: Oct. 21 - 1957

Attachment: Proposal & Budget

Distribution:

Original Only - TSS/CD

Downgraded to [redacted]  
by authority of: 187475  
date: June 1977

BY 187475  
DRAFT

Dr. [redacted] project - Plans for the Coming Year, July 1957 - June 1958

The investigations in Brain Function initiated in the [redacted] Program were based on the postulate that the functions of the human brain and possibly its structure may be damaged as a consequence of prolonged stress. This thesis is now almost fully documented. Early in the study, impairment of the highest integrative functions was defined through the elaboration of methods for the study of highly selected subjects with loss of known amounts of tissue from the cerebral hemispheres. These persons were studied by a large aggregate of quantitative behavioral indicators and by means of extensive information from their families and their associates. It was then demonstrated that the highest integrative functions are impaired to a degree closely linked to the mass of tissue loss, regardless of site, and in a manner determined by the subject's development, previous life experience, and prevailing high level adaptive reactions.

These methods were next applied to several groups of persons who had suffered prolonged stress. The evidence gathered indicates that the brain is vulnerable when severe threat is prolonged, and may be damaged when there is a failure in high level adaptation for long periods. Those persons who perceived themselves as most threatened, and who exhibited the most serious abreactions, were those who were most severely impaired in their highest integrative functions. Such defects were sometimes major and in some instances incompletely reversible. To explain such defects, a thesis currently entertained by the laboratory is that the observed dysfunction may be related to neurohumoral and biochemical aspects of inappropriate and faulty metabolism that are capable of investigation.

The program for the current year will include extensive further documentation of the above thesis with explorations of the biologic mechanisms behind these damaging processes. It is hoped that, by so doing, ways and means of avoiding and eliminating the above described abreactions will be forthcoming.

[redacted]

Dr. [REDACTED] Project

-2-

The personnel and equipment will remain the same. The funds involved are detailed on the attached sheet.

[REDACTED]

61-44

Budget for the [redacted] Study Program. Fiscal Year 1957-58

Dr. [redacted] Project

Dr. [redacted] project director	9,000
Dr. [redacted] neurologist, part time	5,000
Dr. [redacted] biopsychologist, full time	9,000
Dr. [redacted] neurologist, part time	4,000
Dr. [redacted] psychologist, $\frac{1}{2}$ salary	4,750
Miss [redacted] research asst.	6,000
Miss [redacted] secretary	3,300
Miss [redacted] technician	3,400
Miss [redacted] typist	2,950
	<hr/>
	47,400
	<hr/>
5% Retire. and 2 $\frac{1}{4}$ % Soc. Sec.	3,437
	<hr/>
	50,837

Special Payments

200

General Supplies

500

Technical Equipment

1,000

Technical Supplies

300

Miscellaneous

100

Travel

750

Reference Library

100

Statistical Services

---

2,400

56,187

Admin. Fee 10%

---

5,618

---

\$61,805



SUMMARY OF EXPENSES ON [REDACTED] ACCOUNT FOR FISCAL YEAR 1956-57 [REDACTED]

61-45

Amounts Obligated in FY 1955-56 but Paid in FY 1956-57

Equipment	399.55
Supplies	352.76
Reference Library	23.29
Miscellaneous	120.09
Telephone, electricity & extermiator	190.79
Travel (including taxis)	316.42

\$1,402.90

Dr. [REDACTED] Project C

Equipment	2,114.49
Supplies	2,534.46
Reference Library	129.15
Miscellaneous (including warehouse bill, settlement with Mrs. [REDACTED] alpractice insurance, install. of air conditioners, and reprints AMA Neur. & Psych.)	2,040.28
Salaries (includ. Soc. Sec. and 5% Retire. Plan)	37,803.68
Special payments	4,634.74
Utilities	869.80
Travel	1,337.98
Administrative Fee	2,598.85

54,063.43

Dr. [REDACTED] Project C

Supplies	520.55
Reference Library	24.86
Miscellaneous	57.99
Salaries (includ. Soc. Sec. and 5% Retire. Plan)	45,120.02
Special payments	285.41
Travel	435.18
Administrative Fee	2,041.95

48,485.96

[REDACTED] Project F

Supplies	3.75
Rooms (for interpreter & informants)	350.00
Meals, Taxis & Misc. for informants	1,165.00
Informant Fees	1,400.00
Reference Library	11.85
Salaries (includ. Soc. Sec. and 5% Retire.)	11,630.65
Special payments	5,400.98
Travel	21.22

19,983.45

Rent for [REDACTED] B

6,675.00

130,610.74

Obligated for Administrative Fee

6,300.00

Total unpaid bills (including security on [REDACTED] B)

2,051.00

Total

\$138,961.74



61-46

Receipt

Receipt is hereby acknowledged of the following four checks:

Treasurer's check No. 1-152550, dated January 23, 1957, drawn on [redacted] the amount of \$6,512.50.

E

Cashier's check No. A106835, dated January 14, 1957, drawn on [redacted] in the amount of \$6,512.50.

E

Official check No. 209-271130, dated January 14, 1957, drawn on [redacted] in the amount of \$10,000.00.

E

Cashier's check No. DM39739, dated January 11, 1957, drawn on [redacted] in the amount of \$16,050.00.

E

All four checks are made payable to [redacted]

B

[redacted]

C

Date:

61-47

Receipt

Receipt is hereby acknowledged of the following four checks:

Treasurer's check No. 1-152550, dated January 23, 1957, drawn on [redacted] in the amount of \$6,512.50.

E

Cashier's check No. A106835, dated January 14, 1957, drawn on [redacted] in the amount of \$6,512.50.

E

Official check No. 209-271130, dated January 14, 1957, drawn on [redacted] in the amount of \$10,000.00.

E

Cashier's check No. DM39739, dated January 11, 1957, drawn on [redacted] in the amount of \$16,050.00.

E

All four checks are made payable to [redacted]

B

[redacted]

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

61-48

4 January 1957

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA: TSS/Budget Officer [REDACTED]

SUBJECT: MKULTRA Subproject 61  
Invoice No. 2, Allotment 6-2502-10-001

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

- ✓ Cashier's check in the amount of \$6,512.50, drawn on a [REDACTED] bank,
- ✓ Cashier's check in the amount of \$6,512.50, drawn on a [REDACTED] bank,
- ✓ Cashier's check in the amount of \$16,050.00, drawn on a [REDACTED] bank,
- ✓ Cashier's check in the amount of \$10,000.00, drawn on a [REDACTED] bank.

All four checks should be made payable to [REDACTED]

2. Please forward the checks to Chief, TSS/Chemical Division through TSS/Budget Officer by Friday, 18 January 1957.

3. This is a final invoice. A total of \$59,812.00 was obligated under this subproject during FY 56. However since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

SIDNEY GOTTLIEB  
Chief, TSS/Chemical Division

Attachments:  
Invoice & Certifications

Distribution:  
Orig & 2 - Addressee  
1 - Comptroller *Dr. 886-007572-600.1-2502-10-001-17.1 - \$ 39,075.00*  
*G. Cash* *\$ 39,075.00*

GUARANTY FOR PAYMENT OR CREDIT

A [REDACTED]  
AUTHORIZED SIGNING OFFICER

61-49

MEMORANDUM RECEIPT

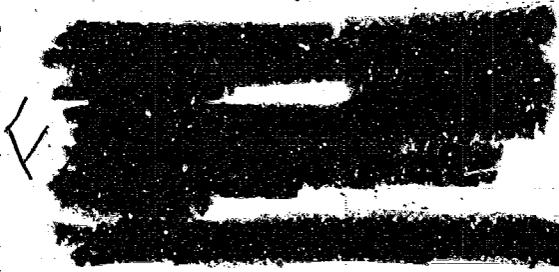
30 JAN 30 1957  
DATE

TO:

FROM:

SUBJECT:

I hereby acknowledge receipt of the following:



#209-27130

10,000

1-152550

6512.50

04 39739

16,050.00

A 106835

6,512.50



Please return signed copy(ies) of this receipt

SIGNATURE OF RECIPIENT

30 Jan 1957

DATE RECEIVED

To  
FORM NO. 36-66  
MAR 1949

61-50

RECEIPT

Receipt is hereby acknowledged of the following check:

Cashier's Check, No. M24715, dated December 13, 1956, in the amount of \$19,537.00, payable to

[REDACTED] drawn on [REDACTED] B

[REDACTED] C

Date: 28 Dec 56

61-51

**INVOICE**

For services

\$39,075.00

[REDACTED]

**CERTIFICATIONS**

(1) It is hereby certified that this is Invoice 2 applying to Sub-project 61 of MKULTRA, that performance has been satisfactory, that the services have been accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSS/Chemical Division

Date:

(2) It is hereby certified that this invoice applies to Subproject 61 under MKULTRA which was duly approved and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Date:

[REDACTED]

61-52

6 December 1956

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA: TSS/Budget Officer

SUBJECT: MKULTRA Subproject 61, Invoice 1  
Allotment 6-2502-10-001

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

B Cashier's check in the amount of \$19,537.00, payable to [REDACTED] drawn on a local bank.

2. The check should be forwarded to Chief, TSS/Chemical Division, through TSS/Budget Officer, no later than Thursday, 13 December 1956. Other invoices will follow.

SIDNEY GOTTLIEB  
Chief  
TSS/Chemical Division

Attachments:  
Invoice and Certifications

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

TSS/CD: [REDACTED] (6 December 1956)

I CERTIFY THESE FUNDS ARE AVAILABLE  
OPERATION NO. 2572  
6-2502-10-001  
6-2502-10-001  
A. TSS/CD OFFICE

CHECKED 12/15/56 THE AMOUNT OF \$19,537.00  
RECEIVED 12/15/56

A

[REDACTED]

61-52

**INVOICE**

For services

\$19,537.00

**CERTIFICATIONS**

(1) It is hereby certified that this is Invoice 1 applying to Sub-project 61 of MKULTRA, that performance has been satisfactory, that the services have been accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSS/Chemical Division

Date:

(2) It is hereby certified that this invoice applies to Subproject 61 under MKULTRA which was duly approved and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Date:

[Redacted]

61-53

**BUDGET:**

Project Director	9,000
Neurologist	4,000
Neurologist	4,000
Physiological Psychologist	8,000
Neurologist	6,000
Lab Technician	3,200
Lab Technician	3,000
Secretary	3,200
Two Typists (3,000 each)	<u>6,000</u>
Subtotal	46,400
Overhead @ 8%	<u>3,712</u>
	50,112
Technical Equipment	7,500
Travel	<u>1,000</u>
GRAND TOTAL	\$58,612

5  
O [REDACTED] 61-54  
DRAFT [REDACTED] A

22 June 1956

MEMORANDUM FOR: THE RECORD

SUBJECT : MKULTRA, Subproject 61

1. Subproject 61 is being initiated to support the brain studies of Dr. [REDACTED] located at the [REDACTED] C B

2. The scope of Dr. [REDACTED] program will encompass the following phases (see attached proposal for detailed discussion): C

(a) To systematically collect and evaluate current research on central nervous system function and structure in order to understand better what types of research on modification and exploitation of CNS function will be most productive.

(b) To assess the elements of frustration adaptation by studying the reactions of brain damaged and non-brain damaged individuals to artificially induced frustration designed as a prototype of certain situations commonly encountered in nature.

(c) To evaluate these reactions to see to what extent frustration adaptation can be prevented, postponed, modified and predicted.

Downgraded to [REDACTED]  
by authority of: 187475  
date: June 1977

22 RPDET; CL BY 187475

61-54

(2)

\$50,000.00

3. The cost of the program for a period of one year starting 25 June 1956 is estimated to be \$58,612.00

used as a cutout for transferring the money to [redacted] Charges should be made against allotment

2502-10-001.

4. [redacted] has requested [redacted] to submit to them a summary accounting on an annual basis of all monies received from [redacted] Also, it has been requested that any unexpended funds be returned as soon as possible upon the close of the grant year.

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

6. In connection with travel under this project, it is agreed that the Agency will accept the travel documentation and accounting which conform with the practices of the University.

[redacted] TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS: APPROVED:

[redacted] Research Director TSS/Chemical Division

Attachment: Proposal & Budget

Distribution: Original Only - TSS/CD

[redacted]

601-55

2572

6-2502-10-001

-61-

26 JUN 1956

Sub project #1

58,612.00

58,612.00

10 DEC 1955

Invoice #1 Sub. 6

19,537.00

39,075.00

8 JAN 1957

Invoice #2 Sub. 6 (4 checks)

39,075.00

~~L19~~

61-56

22 June 1956

MEMORANDUM FOR: COMPTROLLER

ATTENTION : Finance Division

SUBJECT : MKULTRA, Subproject 81

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 81 has been approved and \$58,812.00 of the over-all MKULTRA project funds has been obligated to cover the subproject's expenses. This obligation of funds should be charged to Allotment 6-2502-10-001.

A

[Redacted] Acting Chief  
TSS/Chemical Division

APPROVED FOR  
OBLIGATION OF FUNDS:

Original signed by

[Redacted] Research Director

Date: 25 JUN 1956

I CERTIFY THAT FUNDS ARE AVAILABLE: 26 JUN 1956  
OBLIGATION REFERENCE No. 2512  
CHARGE TO ALLOTMENT No. 6-2502-10-001

AUTHORIZING OFFICER

Distribution:

Orig & 2 - Addressee

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

TSS/CD (22 Jun 56)

A

61-57

WASA Subject 61

Date of Original Authorization	Period Covered	Plan No. - Model No.	Allocated Budget	Amount of Disbursements
25 June 56	6/25/56-57		6-2502-10-001	\$58,612.00

Account	Period	Plan No. - Model No.	Allocated Budget	Amount of Disbursements
#2			9-2502-10-001	22,891.04
				35,567.96
				<u>58,459.00</u>
#3				
#4			9-2502-75-902	20,198.20 ✓
#5			0525-1009-491238	360.80

1	6 Mar 56	19,539.00	39,075.00
2	4 Jan 57	39,075.00	<del>0</del>
	27 Oct 57		50,000.00
3	28 Oct 57	50,000.00	<del>0</del>
4	2 Oct 58	58,459.00	<del>0</del>
5	11 Aug 59	58,459.00	<del>0</del>
6	1 Sep 60	60,797.36	<del>0</del>