PROPOSAL

It is proposed to continue research on problems

critical to a clarification of the fundamental aspects of the

stimulus-response relationship in biological systems. Studies

will be conducted utilizing chronic animal preparations with

permanent septal electrodes. Investigations will be conducted

utilizing chronic electrode preparations coupled with selected

classical types of conditioning. Studies will be conducted on

the geography of the brain in selected species of animals to

determine the locus in which stimulations will produce specific

reactions.

A careful literature survey, especially of the Russian literature, of foreign research in this area will be conducted.



Project: MKULTRA, Subproject 106

Date Initiated: January 1961

Date Expires: January 1962

Funds-current year: \$12,000.00

Purpose: To provide consulting service and Slavic language literature

review of various foreign biological and psychological areas

106

technology related to BW.

Status: The project is in its second year and is continuing to produce

adequately.



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27 January 1960

MEMORANDUM FOR: CHIEF, FINANCE	DIARION
VIA : TSS/Budget Officer	
SUBJECT : MEULTRA, Subpro Allotment 0525-100	ject 106, lavolce #1 9-4902
1. Invoice No. 1 covering the above	e subproject is attached.
Payment should be made as follows:	
Cashler's check in the amount	of \$841,00 payable
on a bank.	drawa
Cashier's check in the amount	of \$21,014.00 payable
Brok.	drawn on
2. Please forward the checks to (Division through TSS/Budget Officer by I	Chief, TSS/Chemical February 1960.
a - meia in a final invoice. Havel	er. since it is anticipated
that additional funds will be obligated for should not be closed.	
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Prince 1	
* Ee1	Chemical Division
1001	OH GIMES DE PATTERNE
Attachments: Invoice & Certifications	
Distribution:	
Orig & 2 - Addressee	
1 - TSS/FASB 2 - TSS/CD	

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106 3

INVOICE

For Services

\$21,855.00

CERTIFICATIONS

(i) It is hereby certified that this is invoice #1 applying to Subproject 106 of MKULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is filed in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSS/Chemical Division

Date:

(2) It is hereby certified that this invoice applies to Subproject 106 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:

SUMB

PROPOSED BUDGET

Salary (Chief Investigator)	\$11,500	.
Technical Services	2,000	
Materials and Supplies	3,000	
Travel	2,500	
Overhead (10.6%)	2,014	 ·
TOTAL	\$21,014	

106

February 6, 1963.

Response Relationships in Biological Systems Statement of Funds Received and Expended January 1, 1961 to December 31, 1961

Grant Received

\$12,000.00

Expenditures:

Principal Investigator \$9	,000.00
	58.43
Conference travel	727.18
Consultants	800.00
	,414.39

Total Expenditures Unexpended Funds, December 31, 1961 12,000.00



I have examined and approved the submitted expenditures.

> Chief-TSD/Biological Branch

B

Response Relationships in Biological Systems Statement of Funds Received and Expended

Pebruary 15, 1960 to Pebruary 16, 1961

Grant Received:	\$21,714.00
Expenditures	
Personnelt	
Principal Investigator \$ 9,000.00	
Laboratory Technician 975.00	· · · · · · · · · · · · · · · · · · ·
Secretary 325.00	\$ 10,500.00
Consumeable Supplie:	
Experimental Animals 1,600.00	
Disposal Cages 570.00	
Feet for Animals 375.00	
Lacoratory Supplies 800.00	3,345.00
Travel:	
Conference Travel 215,00	
Moving Expense, Principal	v.
Investigator 2,375.00	2,590.00
Consultants:	2,500.700
Overhesi Burden	2,079.00
Total Expenditures:	\$21,014.00
The second secon	• J) · •
Une creme! Funds, Pebruary 16, 1961 I have comined	nd approved the submitted

H

experd:



ate: 2/ | Division -

April 13, 1961



Gentlemen:

amount of twelve thousand dollars (\$12,000.00) to run from January 1, 1961 for a period of twelve (12) months.

Herewith enclosed is our recapitulation of the funds received and the expenditures under the previous grant. We are sending you the original and one copy but will be happy to forward more copies if you so desire.

very truly yours,



e e

Enclosures/2



21 May 1962

MEMORANDUM FOR: THE RECORD

SUBJECT

: MKULTRA, Subproject No. 106

I. It is proposed to continue research under MKULTRA
subproject No. 106 on studies of biological systems with particular
reference to quantifying the relationship between a stimulus and
the biological-response to that stimulus. Problems arising from
the difference in excitability and behavioral response among members
of an animal population will be analyzed. By means of animal preparations particularly suitable for demonstrating specific functions,
evaluations will be made of biological generalizations arising from
the use of one species of animal as an experimental variable. A
critical review will be maintained of selected foreign literature
especially that on the neurophysiological mechanism of conditioning
and related behavioral research.

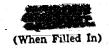
2. Because of the very low level of effort on which this program is to be continued during the next year, reimbursements will be made directly to Mr. the chief investigator, on the basis of his invoices for professional services rendered at the times that these



·		
occur. No interveneing cutouts will be required as w	vere used in	
the previous program.		P
3. Funds required for this program for one	year amount to	· · · · · · · · · · · · · · · · · · ·
\$3,000.00. Charges should be made against Allotme	ent No. 2125-1390-3902.	
4. It is not anticipated that any permanent ed	quipment will be	
needed for this program.	. <u></u> .	
5. The requirement for a semiannual inform	nal accounting has	
been waived.	•	
6. All personnel connected with the planning	and monitoring	
of this program possess Agency Top Secret approva		
Manual Control of the		
Chief, TSD/Resea	arch Branch	
APPROVED FOR OBLIGATION OF FUNDS:		
Chief, Technical Services Division		



Date:



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Cost Account 2125-1390-3902

Object Class _

Date		Remarks and I	References		Obligations Incurred	Obligations Liquidated	Unliquidated Balance
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MEMORANDUM FOR: THE COMPTROLLER

ATTENTION

: Finance Division

SUBJECT

MRULTRA, Subproject No. 106

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 166 has been approved, and 12,600.06
of the over-all Project MKULTRA funds have been obligated to cover the
subproject's expenses and should be charged to cost center 2135-1196-1962

Chief
TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS:

Chief, Technical Services Division

Date

Distribution:

Original & 2 - Addressee

1 - TSD/FASS

2 - TSD/RB



	February 1961
VIA 1 TED/Bulget Officer	
SUBJECT : MCULTRA, Subproject 106,	Invol ce 6 2
Allotment 1125-1390-3902	
2. Involve No. 2 covering the above	e subproject is attached.
Payment should be made as follows:	
Cashiar a check in the socuet of	r \$480,00 payable
Cashier's cheek in the amount of	e \$12,000.00 payable drawn on
2. Please forward the checks to Ch Brunch through TSD/Budget Officer by 9 Ma	ief, TSD/Research rob 1961.
j. This is a final invoice. Ecver-	er, since it is enticipated or this project, the files
should not be closed.	
	Chies D/Research Branch
Attachments: Incice & Certifications	101 1847
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23 Yermany 1961

MEMC	RANDUM FOR:	CRISP, PINANCE	MOISION			
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Date: 25 May 1948

MEMORANDUM FOR: THE COMPTROLLER

ATTENTION

Finance Division

SUBJECT

: MKULTRA, Subproject Me, MA

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 has been approved, and \$1.090.09
of the over-all Project MKULTRA funds have been obligated to cover the subproject's expenses and should be charged to cost center 115-1190-1902

Chief TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS:

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Date:

Distribution:

Original & 2 - Addressee

1 - TSD/FASS

2 - TSD/RB V



15 March 1961



Gentlement

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

funds:

Cashier's Check to. Idram on the for \$480.00, dated

Treasurer's Check 194

drawn on the or \$12,000.00; dated 15 larch 1901.

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

Yours truly

Ercl. (2)



TO: TSS/OC

This is an invoice against previously obligated funds.

- 1. Date of Obligation:
- 2. Purpose of Project: Studies of

Neurophysiological Mechanisms

- 3. Progress to Date:
- 4. Expiration Date: One Year
- 5. Project_Monitor Dr.

FROM: TSS/CD





14 February 1961

MEMORANDUM FOR: THE RECORD

SUBJECT:

: MKULTRA, Subproject No. 106

1. It is proposed to continue research under MKULTRA subproject No. 106 on studies of biological systems with particular reference to quantifying the relationship between a stimulus and the biological-response to that stimulus. Problems arising from the difference in excitability and behavioral response among members of an animal population will be analyzed. By means of animal preparations particularly suitable for demonstrating specific functions, evaluations will be made of biological generalizations arising from the use of one species of animal as an experimental variable. A critical review will be maintained of selected foreign literature especially that on the neurophysiological mechanism of conditioning and related behavioral research.

as cut out and cover for this subproject. The necessary research will be conducted by

at the conclusion of the program will be returned to the

who will submit to summary accounting of funds at the conclusion of the program. Any unused funds remaining

will function



3. Funds required	for this program for one year amount
in els one on ATathia Au	m must be added \$480,00 representing 3,000
10 312,000.00	arge to the
a four per cent service ca	
making the to	tal amount \$12, 480.00. Charges should
be made against Allotment	t No. 1125-1390-3902
	pated that any permanent equipment will
	m. (It has been agreed that documentation
pe needed to lints broken	mis he may a serial hard his he
`	expenses which are reimbursable by
	shall conform to the accepted practice
of that organization.	
01 144 4.94	ent for a semiannual informal accounting
5. The requirem	edt for a sometime of
has been waived.	
6. All personnel	connected with the planning and monitoring
.f.klia neogram-nossess	Agency Top Secret approval.
	will be unclassified after it leaves the
7. The project w	All the unclassified and
: •	
APPROVED FOR OBLI-	APPROVED:
GATION OF FUNDS:	
Research Director	Chief Branch
Date:	TSD/Research Branch
Attachment:	
Proposed Budget Distribution:	
Original Only	

PROPOSED BUDGET

SALARY:	
Chief Investigator	\$10,000.00
TRAVEL	_1,000,00
INSURANCE; HOSPITALIZATION; SOCIAL SECURITY	300.00
ADMINISTRATIVE EXPENSES	700,00
TOTAL	\$12,000.00



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No.

Object Class ____

Date		Remarks and References	Obligations Incurred	Obligations Liquidated	Unliquidated Balance
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14 February 1961

MEMORANDUM FOR: COMPTROLLER

ATTENTION

: Finance Division

SUBJECT

: MKULTRA, Subproject 106

Under the authority granted in the memorandum dated

13 April 1953 from the DCI to the DD/A, and the extension of this authority is subsequent memoranda, Subproject 106 has been approved and \$12,480.00 of the over-all MKULTAA project funds has been obligated to cover the subproject expenses.

This obligation of funds should be charged to Allotment 1125-

1390-3902.



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APPROVED FOR OBLIGATION OF FUNDS:

A THE REAL PROPERTY.

Research Director

_ :

Distribution:

Orig. & 2 - Addresses

1 - TSD/OC

U-TSD/FASS

2 - TSD/RB

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MEMORANDUM FOR: CHIEF, PINANCE DIVISION

VIA

1 TSD/Buiget Officer

SUBJECT

Allotsent 1125-1390-3902

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

BC

Cashier's check in the amount of \$480.00 payable to

Cashier's check in the ascunt of \$12,000.00 payable took

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

Chief
TSD/Research Branch

Attachments: Incice & Certifications

Distribution:
Orig & 2 - Addressee

1 - TSD/TASS 2 - TSD/RB



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412,480.00

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CONTOTICATIONS

(1) It is hereby certified that this is invoice 2 applying to sub-project to. 106 of PAIRIPA, that performance is astisfactory, that services are being accomplished in accompanies with autual agreements, that a detailed agenda of the payments and recoling is on file in 150/10, that this bill is just and current and that payment thereof has not yet been sale.

Chief, CSD/Research Dreach

Date: 23 February 1961

(2) It is hereby certified that this invoice applies to SubFroject 106 of Manufact thich was duly approved, and that the project is being carried out in accordance with the manufacture of 13 April 1953 from the BOI to the ID/A, and the extension of this authority in subsequent measurants.

Research Director

14 February 1961

MEMORANDUM FOR: COMPTROLLER

ATTENTION : Fleance Division

SUBJECT : MKULTRA, Subproject 106

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 106 has
been approved and \$12,480,00 of the over-all MKULTRA project funds has been obligated to cover the subproject expenses.

This obligation of funds should be charged to Allotment 11251390-3902.



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Research Director	
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Date	
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Cost Account 2525 - 1009 - 4902

Object Class _____

Date	Remarks and References	Obligations Incurred	Obligations Liquidated	Unliquidated Balance
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29 December 1959

MEMORANDUM	FOR: COMPTROLLER
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ATTENTION

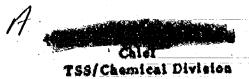
: Finance Division

SUBJECT

MKULTRA, Subproject 106

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 106 has
been approved and \$21,855.00 of the over-all MKULTRA project
funds has been obligated to cover the subproject expenses. This
obligation of funds should be charged to Alletment 0525-1009-4902.



APPROVED FOR OBLIGATION OF FUNDS:

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CHARGE TO AUGMENT HE DESCENSION - 1982

Research Director

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TSS/CD (29Dec'59)

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27 January 1960

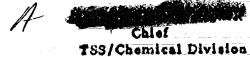
MEMORANDUM FO	R: CHIEF, FINANCE DIVISION	<u> </u>
VIA	: TSS/Budget Officer	
SUBJECT	: MKULTRA, Subproject 106, Allotment 0525-1009-4902	Invoice #1

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

Cashler's check in the amount of \$841.00 payable to drawn on a Bank.

Cashier's check in the amount of \$21, 014.00 payable to Bank.

- 2. Please forward the checks to Chief, TSS/Chemical Division through TSS/Budget Officer by 10 February 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.



Attachments:

Invoice & Certifications | Certify Tolerand

Distribution:

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2 - TSS/FASB

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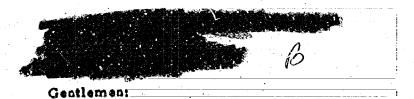
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February 5, 1960



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

Tressurer's Check drawn on the for \$841.00, dated 2 Feb. 1960.

Treasurer's Check drawn on the for \$21,014.00, dated 2 Feb. 1960.

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)



29 December 1959

MEMOR	MITOMA	FOR: C	COMPTR	OLLER
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ATTENTION

: Flance Division

SUBJECT

1 MKULTRA, Subproject 106

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 106 has
been approved and \$21,855.00 of the over-all MKULTRA project
funds has been obligated to cover the subproject expenses. This
obligation of funds should be charged to Allotment 0525-1609-4902.

Chief
TSS/Chemical Division

APPROVED FOR	obligatio	N
OF FUNDS:		

Research Director

Date:

Distribution:

Orig & 2 - Addressee

1 - TSS/OC

1 - TSS/FASB

2 - TSS/CD

TSS/CD/ (29Dec'59)

106 21

DRAFT 29 December 1959

MEMORANDUM FOR: THE RECORD

SUBJECT: MKULTRA, Subproject 106

1. The purpose of MKULTRA subproject 106 is to undertake studies on biological systems with particular reference to quantifying the relationship between a stimulus and the biological response to that stimulus. The lack of a general understanding and adequate methodology for handling this relationship in a realistic fashion is one of the major roadblocks to rapid technical progress in the fields of assessment and control of behavior at the present time. It is planned to utilize an interdisciplinary approach in this research with emphasis on the side of the physical sciences. Several advanced mathematical techniques and physical models have been suggested as fruitful research areas not presently being exploited. Problems arising from the difference in excitability and behavioral response among members of an animal population will be analyzed. An attempt will be made to elucidate relationships between lower animals and man by comparing physiological, biochemical, and behavioral characteristics. By means of animal preparations particularly suitable for demonstrating specific functions evaluations will be made of biological

generalizations arising from the use of one kind of animal as an experimental variable. A critical review will be made of selected foreign literature especially that on the neurophysiological mechanism of conditioning and related behavioral research. Particular reference will be made to the recent shift on the part of the Russians from the strict "Pavlovian" view to a more realistic approach to the problem.

- as cut out and cover for this subproject. The necessary research will be conducted by to the a summary accounting of funds at the conclusion of the program. Any unused funds remaining at the conclusion of the program will be returned to the
- 3. Funds required for this program for one year amount to \$21,014.00. To this sum must be added \$841.00 representing a four per-cent service charge to the making the total amount \$21,855.00. Charges should be made against Allotment No. 0525-1009-4902.
- 4. It is not anticipated that any permanent equipment will be needed for this program. It has been agreed that documentation and accounting for travel expenses which are reimbursable by





It is proposed to mount the initial phases of a program aimed at an eventual clarification of the fundamental aspects of the problem of stimulus - response relationship in biological systems. The present theoretical models and concepts in this area are not only inadequate but also represent roadblocks to further progress in the evaluation and control of biological systems, including man. (See work such as Loewe, S. Science, 130, pg 692, 1959) The development of practical tools for this work in the form of chronic animal preparations with permanent septal electrodes has lately opened the door to effective research in this area.

Initially the work will consist of a careful literature survey, especially of the Russian literature, coupled with various classical types of conditioning experiments using the chronic electrode preparations available from animal guidance programs. Later, the results of these experiments will be pooled with those involving standard drug effects on the same preparations to design critical experiments aimed at providing new abstract models for these phenomena.

It is planned that during the first year one investigation can complete the literature work and with a minimum of help carry out the initial animal studies required for the design of several definitive experiments to be carried out during the second year. The form of these experiments cannot presently be visualized because of the inadequacies of present knowledge.