

NIKULTRA #70

15090-
25922
40817

dup - 70-2

		Amount	For Cont Pmt	Acctg	
Acct #1	2 yd Appraisal 1 MAY 57 Invoice 1 Invoice 2 7/1/57 - 1/30/58 (15,390.00)	189048 4726200	94524 2181000 94524 2542200	15438610	(4861)
Acct #2	1 yd Appraisal Sep 59 INVOICE 3 Salary Pmts Aug 57 - Apr 58 6/1/58 - 7/1/59 (25,422.00) Cont by Boston 10/17/60	123600 3090000	123600 3090000	6000000 2552741 3090000	(10541)
Acct #3	1 yd Appraisal Oct 60 10/1/60 - 11/30/61 HP To MKU-94 Tran INVOICE 4	129248 3181250	129248 3181250	251839 2787216	
		439896 10997450	434210 10855250	10825652 - 15402 1/ 10810250 45000 2/ 10855250	
				1 paid by Company 2 funds not reported from Invoice #1 Authorization 1.	
	H 1422.00 760.00				
	1422.00				
	# 70 & 72				

INVOICE OF THE UNITED STATES

ARLITA Subject 70

Date of Original Authorization	Period Covered	Time Reported to	Amount Due	Amount of Collection
1 May 57	2 yrs		0-2502-10-00	142,155.48

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

Invoice No.	Date	Amount	Balance
#1	2 Aug 57	22,785.24	26,367.24
#2	13 May 58	26,367.24	0
Auth 2	18 Sept 57		\$32,136.00
#3	23 Sept 57	\$32,136.00	0
Auth 3	27 Oct 1960		\$33,084.98
#4	28 Oct 60	33,084.98	0

NOTICE: Chicago for mailing checks etc

CERTIFICATION

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

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


~~XXXXXXXXXXXXXXXXXXXX~~
Chief Scientist, TSD

76-4

SECRET
(When Filled In)

ACCOUNTING BY INDIVIDUAL FOR ADVANCE		SUBMITTED BY		DATE - VOUCHER NO. 2-12	
NOTE: Follow Instructions on Reverse		RECEIVED, Sub-Project 70		30 November 1961	
1. CASH ON HAND BEGINNING OF PERIOD		VOUCHER NUMBER		DATE	
2. OUTSTANDING ADVANCES BEGINNING OF PERIOD		1,422.00		1,422.00	
3. RECEIPTS THIS PERIOD:		DESCRIPTION		AMOUNT	
RECEIPT NUMBER	DATE	DESCRIPTION		AMOUNT	
		760.0 25 170185			
		000070			
		Inv. 4 1000-304			
		TOTAL EXPENSES		1,422.00	
		6. REFUNDED HERewith		CASH	
		7. OUTSTANDING ADVANCES END OF PERIOD (Attach Listing)			
		8. CASH ON HAND END OF PERIOD OR BALANCE DUE ADVANCEE			
4. TOTAL TO ACCOUNT FOR		1,422.00		1,422.00	
I CERTIFY FUNDS ARE AVAILABLE		APPROVED		I certify that the expenditures listed hereon and on any attachments were incurred for official purposes of a confidential nature, that payment or credit therefor has not been received, and that this accounting is true and correct.	
OBLIG. REF. NO. CHARGE FAN ACCOUNT NO.		SIGNATURE OF APPROVING OFFICER		SIGNATURE OF PAYEE	
814		GIMNEY CORRIED 20/20		A	
DATE		SIGNATURE OF AUTHORIZING OFFICER		DATE	
		CERTIFIED FOR PAYMENT OR CREDIT			
		SIGNATURE OF CERTIFYING OFFICER			
		DATE			
		SPACE BELOW FOR EXCLUSIVE USE OF OFFICE OF FINANCE			
DESCRIPTION-ALL OTHER ACCOUNTS 13-33		STATION CODE		40-50	
28-33 T/A NO.		41-50		42-47	
SHIP. DOC. NO.		43-50		48-50	
31-33 PROJECT NO.		49-50		51-54	
32-33		55-66		67-70	
33-33		68-70		71-80	
34-33		69-70		81-86	
35-33		70-70		87-90	
36-33		71-70		91-96	
37-33		72-70		97-100	
38-33		73-70		101-104	
39-33		74-70		105-108	
40-33		75-70		109-112	
41-33		76-70		113-116	
42-33		77-70		117-120	
43-33		78-70		121-124	
44-33		79-70		125-128	
45-33		80-70		129-132	
46-33		81-70		133-136	
47-33		82-70		137-140	
48-33		83-70		141-144	
49-33		84-70		145-148	
50-33		85-70		149-152	
51-33		86-70		153-156	
52-33		87-70		157-160	
53-33		88-70		161-164	
54-33		89-70		165-168	
55-33		90-70		169-172	
56-33		91-70		173-176	
57-33		92-70		177-180	
58-33		93-70		181-184	
59-33		94-70		185-188	
60-33		95-70		189-192	
61-33		96-70		193-196	
62-33		97-70		197-200	
63-33		98-70		201-204	
64-33		99-70		205-208	
65-33		100-70		209-212	
66-33		101-70		213-216	
67-33		102-70		217-220	
68-33		103-70		221-224	
69-33		104-70		225-228	
70-33		105-70		229-232	
71-33		106-70		233-236	
72-33		107-70		237-240	
73-33		108-70		241-244	
74-33		109-70		245-248	
75-33		110-70		249-252	
76-33		111-70		253-256	
77-33		112-70		257-260	
78-33		113-70		261-264	
79-33		114-70		265-268	
80-33		115-70		269-272	
81-33		116-70		273-276	
82-33		117-70		277-280	
83-33		118-70		281-284	
84-33		119-70		285-288	
85-33		120-70		289-292	
86-33		121-70		293-296	
87-33		122-70		297-300	
88-33		123-70		301-304	
89-33		124-70		305-308	
90-33		125-70		309-312	
91-33		126-70		313-316	
92-33		127-70		317-320	
93-33		128-70		321-324	
94-33		129-70		325-328	
95-33		130-70		329-332	
96-33		131-70		333-336	
97-33		132-70		337-340	
98-33		133-70		341-344	
99-33		134-70		345-348	
100-33		135-70		349-352	
101-33		136-70		353-356	
102-33		137-70		357-360	
103-33		138-70		361-364	
104-33		139-70		365-368	
105-33		140-70		369-372	
106-33		141-70		373-376	
107-33		142-70		377-380	
108-33		143-70		381-384	
109-33		144-70		385-388	
110-33		145-70		389-392	
111-33		146-70		393-396	
112-33		147-70		397-400	
113-33		148-70		401-404	
114-33		149-70		405-408	
115-33		150-70		409-412	
116-33		151-70		413-416	
117-33		152-70		417-420	
118-33		153-70		421-424	
119-33		154-70		425-428	
120-33		155-70		429-432	
121-33		156-70		433-436	
122-33		157-70		437-440	
123-33		158-70		441-444	
124-33		159-70		445-448	
125-33		160-70		449-452	
126-33		161-70		453-456	
127-33		162-70		457-460	
128-33		163-70		461-464	
129-33		164-70		465-468	
130-33		165-70		469-472	
131-33		166-70		473-476	
132-33		167-70		477-480	
133-33		168-70		481-484	
134-33		169-70		485-488	
135-33		170-70		489-492	
136-33		171-70		493-496	
137-33		172-70		497-500	
138-33		173-70		501-504	
139-33		174-70		505-508	
140-33		175-70		509-512	
141-33		176-70		513-516	
142-33		177-70		517-520	
143-33		178-70		521-524	
144-33		179-70		525-528	
145-33		180-70		529-532	
146-33		181-70		533-536	
147-33		182-70		537-540	
148-33		183-70		541-544	
149-33		184-70		545-548	
150-33		185-70		549-552	
151-33		186-70		553-556	
152-33		187-70		557-560	
153-33		188-70		561-564	
154-33		189-70		565-568	
155-33		190-70		569-572	
156-33		191-70		573-576	
157-33		192-70		577-580	
158-33		193-70		581-584	
159-33		194-70		585-588	
160-33		195-70		589-592	
161-33		196-70		593-596	
162-33		197-70		597-600	
163-33		198-70		601-604	
164-33		199-70		605-608	
165-33		200-70		609-612	
166-33		201-70		613-616	
167-33		202-70		617-620	
168-33		203-70		621-624	
169-33		204-70		625-628	
170-33		205-70		629-632	
171-33		206-70		633-636	
172-33		207-70		637-640	
173-33		208-70		641-644	
174-33		209-70		645-648	
175-33		210-70		649-652	
176-33		211-70		653-656	
177-33		212-70		657-660	
178-33		213-70		661-664	
179-33		214-70		665-668	
180-33		215-70		669-672	
181-33		216-70		673-676	
182-33		217-70		677-680	
183-33		218-70		681-684	
184-33		219-70		685-688	
185-33		220-70		689-692	
186-33		221-70		693-696	
187-33		222-70		697-700	
188-33		223-70		701-704	
189-33		224-70		705-708	
190-33		225-70		709-712	
191-33		226-70		713-716	
192-33		227-70		717-720	
193-33		228-70		721-724	
194-33		229-70		725-728	
195-33		230-70		729-732	
196-33		231-70		733-736	
197-33		232-70		737-740	
198-33		233-70		741-744	
199-33		234-70		745-748	
200-33		235-70		749-752	
201-33		236-70		753-756	
202-33		237-70		757-760	
203-33		238-70		761-764	
204-33		239-70		765-768	
205-33		240-70		769-772	
206-33		241-70		773-776	
207-33		242-70		777-780	
208-33		243-70		781-784	
209-33		244-70		785-788	
210-33		245-70		789-792	
211-33		246-70		793-796	
212-33		247-70		797-800	
213-33		248-70		801-804	
214-33		249-70		805-808	
215-33		250-70		809-812	
216-33		251-70		813-816	
217-33		252-70		817-820	
218-33		253-70		821-824	
219-33		254-70		825-828	
220-33		255-70		829-832	
221-33		256-70		833-836	
222-33		257-70		837-840	
223-33		258-70		841-844	
224-33		259-70		845-848	
225-33		260-70		849-852	
226-33		261-70		853-856	
227-33		262-70		857-860	
228-33		263-70		861-864	
229-33		264-70		865-868	
230-33		265-70		869-872	
231-33		266-70		873-876	
232-33		267-70		877-880	
233-33		268-70		881-884	
234-33		269-70		885-888	
235-33		270-70		889-892	
236-33		271-70		893-896	
237-33		272-70		897-900	
238-33		273-70		901-904	
239-33		274-70		905-908	
240-33		275-70		909-912	
241-33		276-70		913-916	
242-33		277-70		917-920	
243-33		278-70		921-924	
244-33		279-70		925-928	
245-33		280-70		929-932	
246-33		281-70		933-936	
247-33		282-70		937-940	
248-33		283-70		941-944	
249-33		284-70		945-948	
250-33		285-70		949-952	
251-33		286-70		953-956	
252-33		287-70		957-960	
253-33		288-70		961-964	
254-33		289-70		965-968	
255-33		290-70		969-972	
256-33		291-70		973-976	
257-33		292-70		977-980	
258-33		293-70		981-984	
259-33		294-70		985-988	
260-33		295-70		989-992	
261-33		296-70		993-996	
262-33		297-70		997-1000	
263-33		298-70		1001-1004	
264-33		299-70		1005-1008	
265-33		300-70		1009-1012	
266-33		301-70		1013-1016	
267-33		302-70		1017-1020	
268-33		303-70		1021-1024	
269-33		304-70		1025-1028	
270-33		305-70		1029-1032	

70-5

CERTIFICATION

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

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



Chief Scientist, TSD

11 June 1964

MEMORANDUM FOR : THE RECORD

SUBJECT : MOUTRA Subprojects 70, 91, 94 and 135

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

B — Subproject 70 incurred direct costs of \$2,518.34 and \$27,872.16 transferred from Subproject 94, for a total of \$30,390.50. Subproject 94 incurred expenses of \$71,324.67, but transferred \$4,165.71 to Subproject 91 and \$27,872.16 to Subproject 70, leaving a net cost of \$39,287.00. It was decided to divert the funds for Subproject 135 to Subproject 91, therefore these costs were included in the accounting from Subproject 91.

Inasmuch as: 1) all four of the subprojects had the same basic research goal in mind, 2) the great length of time that has elapsed since the grants were made, and 3) the difficulty in getting accountings of any sort from the grantees, it is recommended that we facilitate this matter by accounting for the balances as shown in the Confidential Funds Division 760 account for these subprojects.

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

A —
Chief Scientist, TSD

(unperturbed)

FORM 282 USE PREVIOUS EDITIONS.

70-9

—B

—B

RESEARCH ON SLEEP AND UNCONSCIOUSNESS (PROJECT 520 W)October 1, 1960 To November 30, 1961Grant Income

\$ 30,390.50

Costs - October 1, 1960 To November 30, 1961

Salaries \$ 1,580.25

Payroll Taxes and Insurance 61.77

Laboratory Supplies and Expense 408.47

2,050.59

Allocation of G and A Expense 467.75 2,518.34

27,872.16

Transfer of Costs from Project 510 W (94) 27,872.16

\$ - -

—B

—C

I certify that services and materials have been satisfactorily accounted for and the expenditures were incurred on the project.

Date: 3/12/64

A

10-01

VOUCHER NO. 7-12

VOUCHER NO. 7-12

See Attached

FORM 10-59 606 USE PREVIOUS EDITIONS.

STOCKET

(10-49)

~~SECRET~~

70-11

3 November 1960

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSD/Budget Officer

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

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

Cashier's check in the amount of \$30,390.50
drawn on a ~~check~~, payable to E

Cashier's check in the amount of \$1215.62,
drawn on a ~~check~~, payable to E

2. Please forward the checks to Chief, TSD/Research Branch, through TSD/Budget Officer, no later than Thursday, 17 November 1960.

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

~~Signature~~
Chief
TSD/Research Branch

Attachments:

Invoice & Certifications

CHECK# 41257 THE AMOUNT OF \$1,215.62
RECEIVED

Distribution:

Orig & 2 - Addressee

1 - TSD/FASS

CHECK# 41258
RECEIVED

~~SECRET~~

~~SECRET~~

70-11

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

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

Chief, TSD/Research Branch

Date: _____

 A

Research Director

Date: _____

~~SECRET~~

70-11

For Services

\$31,606.12

~~REDACTED~~ - B

CERTIFICATIONS

(1) It is hereby certified that this is Invoice No. 4 applying to Subproject 70 of MKULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is filed in TSD/RB, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSD/Research Branch

Date:

(2) It is hereby certified that this invoice applies to Subproject 70 under MKULTRA which was duly approved and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Date:

SECRET

~~SECRET~~

70-11

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

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

Per

Chief, TSD/Research Branch

Date: _____

Research Director

Date: _____

~~SECRET~~

1
~~SECRET~~ 70-12

TO: TSS/OC

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

3. Progress to Date: Satisfactory

4. Expiration Date: 31 September 1961

5. Project Monitor: [REDACTED] A

FROM: TSS/XX RB

Room ~~XXX~~ West Outbuilding, Ext. ~~XXX~~

119

2292

~~SECRET~~

~~TOP SECRET~~

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

~~TOP SECRET~~

70-13

~~E2 IMPDET; CL BY ██████████~~ A

14 October 1960

MEMORANDUM FOR: THE RECORD

SUBJECT : MKULTRA, Subproject No. 70

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

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

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

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

E2 IMPDET; CL BY ~~██████████~~ A

~~TOP SECRET~~

Downgraded to: ~~CONFIDENTIAL~~

by authority of: ~~CONFIDENTIAL~~

date: June 1977

ES IMPDET; CL BY ~~CONFIDENTIAL~~

~~TOP SECRET~~

70-13

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

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

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

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

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

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

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

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

Downgraded to: ~~CONFIDENTIAL~~

by authority of: ~~CONFIDENTIAL~~

date: June 1977

ES IMPDET; CL BY ~~CONFIDENTIAL~~

~~TOP SECRET~~

~~CONFIDENTIAL~~

~~TOP SECRET~~

70-13

~~by authority of: [redacted]~~

~~date: June 1977~~

~~ES INFDET; CL BY [redacted]~~

cepted practices of that organization.

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

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

[redacted] -B

[redacted] -A

Chief

TSD/Research Branch

APPROVED FOR OBLIGATION
OF FUNDS: [redacted] -A

Date: [redacted]

Research Director

Attachment:
Proposed Budget

Distribution:
Original only

~~Downgraded to: CONFIDENTIAL~~

~~by authority of: [redacted]~~

~~date: June 1977~~

~~ES INFDET; CL BY [redacted]~~

~~TOP SECRET~~

70-14

-B

RESEARCH PROPOSAL

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

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

~~CONFIDENTIAL~~ B

~~WARNING NOTICE~~

~~SENSITIVE INTELLIGENCE~~

~~FORCES AND METHODS INVOLVED~~

70-14

ESTIMATED BUDGET

SALARIES:

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

470
70-14
B
B
Grant for : Neurophysiological Effects of Sedative Agents

Financial Statement
June 1, 1958 to July 1, 1959

Funds received 25,422.00

Expenditures :

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


Total expenditures : 25,527.41

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

 C
Accountant

July 2, 1959

I have examined and approved the submitted expenditures.

 A
Chief Financial Officer
dated 12/7/59

70-19
#70

[REDACTED]

-B

B

Grant for: Research on Sleep and Unconsciousness

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

Expenditures

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

30,900.00

Balance -----

A

I have examined the account and find it correct.

[REDACTED]

[REDACTED]

Accountant

10/17/60

~~SECRET~~

70-15

14 October 1960

MEMORANDUM FOR: COMPTROLLER

ATTENTION: Finance Division

SUBJECT: MKULTRA, Subproject No. 70
Additional Authorization No. 3

Under the authority granted in the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda, Subproject 70 has been approved and \$33,084.98 of the over-all MKULTRA project funds has been obligated to cover the subproject expenses. This obligation of funds should be charged to Allotment 1525-1009-1902.

 A
Chief
TSD/Research Branch

APPROVED FOR OBLIGATION
OF FUNDS:

I CERTIFY THAT FUNDS ARE AVAILABLE
OBLIGATION AUTHORITY: 814
CHARGE TO ALLOTMENT: 425-1109-1902

 A
Research Director

Date: 14 Oct 60

Distribution:

Orig. & 2 - Addressee

1 - TSD/OC

✓ 1 - TSD/FASS

2 - TSD/RB

TSD/RB/  (14 Oct, '60)

~~SECRET~~

~~SECRET~~

27 January 1960

MEMORANDUM FOR: THE RECORD

SUBJECT: Action on MKULTRA Audit Exceptions - TSS/CD

SP#70

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

[REDACTED] A
Chief
TSS/Chemical Division

18 July 1960

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

[REDACTED] A
Chief
TSD/Research Branch

~~SECRET~~

70-17

30 October 1959

MEMORANDUM FOR: THE RECORD

SUBJECT : MKULTRA No. 70

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

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

[REDACTED] - A
Chief
TSS/Chemical Division

Distribution:
Orig only.

70-18

September 30, 1959

[REDACTED] -B

Gentlemen:

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

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

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

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

Yours, truly,

Encl.

~~SECRET~~

~~SECRET~~

70-19

23 September 1959

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

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

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

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

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

2. Please forward the checks to Chief, TSS/Chemical
Division, through TSS/Budget Officer, no later than Wednesday,
7 October 1959.

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

[REDACTED] - A
TSS/Chemical Division

Attachments:

Invoice & Certification

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

Distribution:

Orig & 2 - Addressee

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

13204

DATE 2-8

Sept 1891

(10-49)

~~SECRET~~

70-19

INVOICE

For Services

\$32,136.00

~~_____~~

CERTIFICATIONS

(1) It is hereby certified that this is Invoice #3 applying to Subproject 70 of MKULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is filed in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSS/Chemical Division

Date: _____

(2) It is hereby certified that this invoice applies to Subproject 70 under MKULTRA which was duly approved and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Date: _____

~~SECRET~~

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

E2 IMPDET; CL BY ~~██████████~~

70-20
D R A F T
18 September 1959

MEMORANDUM FOR: THE RECORD

SUBJECT : MKULTRA, Subproject 70

1. The purpose of this subproject is to provide funds for a continuation of research on the "K" (knock-out) problem.
2. There exists within the Agency a continuing requirement for highly potent, quick-acting substances that will render an individual helpless and immobile, preferably in an unconscious state. It is anticipated that this program will provide fundamental information needed for solution of this problem. The scope of this research program is intended to cover investigations on the manner in which certain drugs induce anesthesia or narcosis, elucidate the mechanism of action of such compounds and uncover and evaluate materials which have potential value because of their potency, physical characteristics, and biological activity.
3. While information and materials available to date are inadequate to satisfy Agency requirements, there are model compounds which, because of their potency, biological activity, or chemical characteristics, permit a prediction that an adequate research program stands a good chance of developing a material suitable for operational use.
4. The ~~██~~ will serve as

Downgraded to: ~~CONFIDENTIAL~~
by authority of: ~~██████████~~
date: June 1977
E2 IMPDET; CL BY ~~██████████~~

Downgraded to ~~CONFIDENTIAL~~

by authority of: ~~CONFIDENTIAL~~

date: June 1977

E2 IMPDET; CL BY ~~CONFIDENTIAL~~

-2-

70-20

cut out and cover for this subproject. The necessary research and development will be conducted by ~~CONFIDENTIAL~~ who will sub-

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

~~CONFIDENTIAL~~ amounting to \$1,236.00 making the total cost of this program \$32,136.00.

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

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

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

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

Downgraded to ~~CONFIDENTIAL~~

by authority of: ~~CONFIDENTIAL~~

date: June 1977

E2 IMPDET; CL BY ~~CONFIDENTIAL~~

Downgraded to: CONFIDENTIAL

by authority of: [REDACTED]

date: June 1977

-3-

70-21

EE: MEDET; CL BY: [REDACTED]

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

TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS:

APPROVED:

Research Director

Chief
TSS/Chemical Division

Date:

9/21/59

Attachment:

Proposed Budget

Distribution:

Original only

Downgraded to: CONFIDENTIAL

by authority of: [REDACTED]

date: June 1977

EE: MEDET; CL BY: [REDACTED]

70-20

PROPOSED BUDGET

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

~~SECRET~~

70-21

18 September 1959

MEMORANDUM FOR: COMPTROLLER

ATTENTION : Finance Division

SUBJECT : MKULTRA, Subproject 70, *Additional*
Authorization # 2

Under the authority granted in the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda, Subproject 70 has been approved and \$32,136.00 of the over-all MKULTRA project funds has been obligated to cover the subproject expenses. This obligation of funds should be charged to Allotment 0525-1009-4902.

 TSS/Chemical Division

APPROVED FOR OBLIGATION
OF FUNDS:

Research Director

Date:

Distribution:

Orig & 2 - Addressee

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

TSS/CD/  (18 Sept '59)

OFFICE OF CONTROLLER

Financial Statement
July 1, 1957 to June 30, 1958

Funds received

\$15,390.00

Expenditures:

Salaries \$10,164.54

Animal Houses 2,731.19

General Supplies 567.88

Travel and Honorarium 85.00

Overhead 1,890.00

Total Expenditures

15,438.61

Balance June 30, 1958 (Deficit)

(\$ 48.61)

June 23, 1959

Assistant Controller

I have examined and approved the submitted
expenditures.

Chief

TSS/Chemical Division

Date: 11/7/59

70-23

MEMORANDUM FOR THE RECORD

SUBJECT: Request for Authorization of Change, MKULTRA #70

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

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

[REDACTED] - A

WARNING NOTICE
SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

June 9, 1958

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

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

Kindly notify us at your earliest convenience of your decision.

Sincerely yours,

[REDACTED]
Executive Secretary - Treasurer

WARNING NOTICE
SENSITIVE INTELLIGENCE
SOURCES AND METHODS INVOLVED

70-25

MEMORANDUM FOR: The Record

SUBJECT : Authorization for Facility Change, MKULTRA #70

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

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

[REDACTED] -A

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

70-26

B
[REDACTED]
[REDACTED] - B
[REDACTED] - B
[REDACTED] - B
[REDACTED] - B
Dear Sirs :

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

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

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

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

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

Yours truly,
[REDACTED] - C
[REDACTED] - C
[REDACTED] - C

Associate Clinical Professor

70-27

29 May 1958

B

[REDACTED]

Gentlemen:

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

Check #209-333085 drawn on [REDACTED] for \$25,422.00

Check #78 12465 drawn on [REDACTED] for \$945.24.

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

Yours truly,

Encl.

70-28

13 May 1958

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

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

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

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

Cashier's check in the amount of \$945.24,
drawn on a ~~_____~~ payable to ~~_____~~ - B

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

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

~~_____~~ - A
TSS/Chemical Division

Attachments:
Invoice and Certifications

Distribution:

Orig & 2 - Addressee

1 - TSS/YASB
2 - TSS/CD

I CERTIFY THAT FUNDS ARE AVAILABLE:

ORIGINATION REFERENCE NO. 3765

ALLIANCE TO ALLIANCE NO. 4-2502-10-001

CHECK # FE-1463 THE AMOUNT OF \$ 25,422.00
RECEIVED 28 MAY 1958

~~_____~~ - A
28 MAY 1958

70-28

INVOICE

For services

\$26,367.24

B

CERTIFICATIONS

(1) It is hereby certified that this is Invoice #2 applying to Subproject #70 of MKULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSS/Chemical Division

Date:

(2) It is hereby certified that this invoice applies to Subproject #70 of MKULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Date:

70-29

28 August 1957

B —

Gentlemen:

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

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

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

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

Yours truly,

70-30
B
B
B
September 11, 1957

This is to acknowledge the receipt of the following checks :

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

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

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

Yours truly,
[REDACTED]

POST OFFICE DEPARTMENT
OFFICIAL BUSINESS

PENALTY FOR PRIVATE USE TO AVOID
PAYMENT OF POSTAGE 15¢

PRAY
FOR
PEACE

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

RETURN TO
▼

REGISTERED NO.

AD NO.

CITY, ZONE, AND STATE

~~SECRET~~

70-31
2 August 1957

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA

TSS/Budget Officer

SUBJECT

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

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

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

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

2. The check should be forwarded to Chief, TSS/Chemical
Division, through TSS/Budget Officer, no later than Friday,
16 August 1957. 2/25/57

65913
RECEIVED 22 AUG 1957
[REDACTED] -A
[REDACTED] -A
[REDACTED] -A
Acting Chief
TSS/Chemical Division

Attachments:
Invoice and Certifications

Distribution:

Orig & 2 - Addressee
1 - Comptroller

✓ 1 - TSS/FASB
2 - TSS/CD

~~SECRET~~

H/C
[REDACTED]
A

~~SECRET~~

70-31

INVOICE

For services

\$22,785.24

CERTIFICATIONS

(1) It is hereby certified that this is Invoice #1 applying to Subproject #70 of MKULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSS/CD, that this bill is just and correct and that payment thereof has not yet been made.

Acting Chief, TSS/Chemical Division

Date:

(2) It is hereby certified that this invoice applies to Subproject #70 of MKULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Date:

~~SECRET~~

70-32
4 June 1957

MEMORANDUM FOR: THE RECORD

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

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

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

[REDACTED] -A
Branch II
TSS/Chemical Division

Distribution:

Orig & 2 - TSS/CD

TSS/CD: [REDACTED] (4 June 1957)
1
A

2765

7. 2502-10-201

ALONE

- 20 -

DATE	REMARKS AND RETIREMENTS	OBIGATIONS INCURRED	OBIGATIONS LIQUIDATED	
15 JUL 1957	Authorization	47,222.48		49,153.48
16 AUG 1957	Invoice #1	215,111.00	22,755.24	26,367.24
15 MAY 1958	Invoice #2	25,422.12	26,367.24	

~~SECRET~~

1 May 1957

70-34

MEMORANDUM FOR: THE COMPTROLLER

ATTENTION: Finance Division

SUBJECT: MKULTRA Subproject 70

Under the authority granted in the Memorandum dated 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda, Subproject 70 has been approved, and \$49,152.48 of the over-all Project MKULTRA funds have been obligated to cover the subproject's expenses and should be charged to Allotment 7-2502-10-001.

SIDNEY GOTTLIEB

Chief

TSS/Chemical Division

APPROVED FOR OBLIGATION
OF FUNDS:

Research Director

Date:

Distribution:

Orig & 2 - Addressee

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

TSS/CD: (1 May 1957)

~~SECRET~~

1 JUL 1957

Downgraded to: ~~CONFIDENTIAL~~

by authority of: ~~TOP SECRET~~

date: June 1977

DRAFT
1 May 1957

A 70-3

2 IMPDET; CL BY ~~TOP SECRET~~

MEMORANDUM FOR: THE RECORD

SUBJECT: MKULTRA Subproject 70

1. The purpose of Subproject 70 is to initiate research work on the "K" (Knockout) Problem at the ~~TOP SECRET~~

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

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

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

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

Downgraded to: ~~CONFIDENTIAL~~

by authority of: ~~TOP SECRET~~

date: June 1977

2 IMPDET; CL BY ~~TOP SECRET~~

by authority of: ~~CONFIDENTIAL~~
date: June 1977

70-34

- 2 -

TOP SECRET; CL BY ~~CONFIDENTIAL~~

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

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

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

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

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

~~CONFIDENTIAL~~ - A
Chief, Branch II
TSS/Chemical Division

A
APPROVED FOR OBLIGATION
OF FUNDS: ~~CONFIDENTIAL~~

Approved: ~~CONFIDENTIAL~~ - A

Research Director

Chief, TSS/Chemical Division

Date: 3 MAY 1957

Attached:
Research proposal

Distribution:
Original only

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

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

Downgraded to: **CONFIDENTIAL** A

by authority of: [REDACTED]

date: June 1977

THE "K" PROBLEM

70-35

RE IMPDET; CL BY [REDACTED] A

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

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

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

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

I. The Experimental Evaluation of Sedative Agents

A. Tick Paralysis

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

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

Downgraded to: **CONFIDENTIAL** A

by authority of: [REDACTED]

date: June 1977

RE IMPDET; CL BY [REDACTED] A

70-35

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

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

Investigation will be carried out on:

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

C. Assay of New Sedative Agents

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

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

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projects employing animal experimental procedures.

II. Incapacitating Agents

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

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

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BUDGET

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First year

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

\$19,500.00

University overhead (14%)

2,340.00

\$21,840.00

Second year

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

\$22,300.00

University overhead (14%)

3,122.00

\$25,422.00

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