

100-1

INVOICE CHECK LIST

EDWADA Subproject 100

No	Date of Original Authorization	Period Covered	Time Extended To	Allotment Number	Amount of Obligation
	18 Dec. '59	1 yr.		0525-1009-4902	\$55,640.00

Additional Authorization	Period Covered	Time Extended To	Allotment Number	Amount of Obligation
2	13 Dec 60	13 Dec 61	1125-1390-3902	31,200.00
3	14 Dec 61	14 Dec 62	1125-1390-3902	43,014.40
4	14 Dec 62	14 Dec 63	1125-1390-3902	47,219.12
5	1 Jan 64	31 Dec 64	1125-1390-3902	49,201.40

Invoice Number	Date	Amount	Balance
#1	10 Dec 59	\$55,640.00	0
	13 Dec 60		31,200.00
#2	19 Dec 60	31,200.00	0
#3	1 Dec 61	43,014.40	0
Auth #4		47,219.12	47,219.12
Inv #4	28 Dec 62	47,219.12	0
Auth #5	28 Jan 64	49,201.40	49,201.40
Inv #5	28 Jan 64	49,201.40	0

Project MERRA, Subproject 100

Date Initiated: 1 December 1959

Date Expires: 30 November 1961

Funds-current year: \$30,000

Purpose: To provide for investigations into soil microorganisms and methods by which maximum information can be obtained from soil samples. To provide for analysis of soil and other material related to the CW/BW activities detection program and evaluation and interpretation of the resultant data.

Status: This is a continuing project. The preliminary phases have been completed. Data providing base line microbiological information for certain specific CW/BW activity situation has been obtained and is currently being evaluated. Base lines are being extended and enlarged to obtain greater depth to improve interpretation accuracy.

100-3

Date: 2 January 1964

MEMORANDUM FOR : C/TSD/PASS
SUBJECT : MKULTRA, Subproject No. 100

Under the authority granted in the memorandum dated 13 April 1953, from the DCI to the DB/A, and the extension of this authority in subsequent memoranda, Subproject 100 has been approved, and 49,201.40 of the over-all Project MKULTRA funds have been obligated to cover the subproject's expenses and should be charged to cost center 4125-1390-3902

[REDACTED] A
[REDACTED] A

Concur: [REDACTED] A
10 JAN 1964

ASST: [REDACTED] CD&G
Concur: [REDACTED] A
[REDACTED] A

1 CENT...
COLLECT...
CHARGE TO...
382
4125-1390-3902

APPROVED OF FUNDS: [REDACTED] A

Chief, [REDACTED] 1/17/64

Dist: [REDACTED] BB

[REDACTED] A

100-4

[REDACTED]

DRAFT

2 January 1964

MEMORANDUM FOR : THE RECORD
SUBJECT : MKULTRA, Subproject 100

1. The purpose of subproject 100 is to continue support investigations at the [REDACTED] B
B [REDACTED] into soil microorganisms and methods by which maximum information could be obtained from samples of soil. This project is an important link in the entire problem of detection of CW activities in [REDACTED] F

2. C [REDACTED] B
B [REDACTED] will monitor this project. [REDACTED] C
is the principal investigator.

3. The cost of this program for the coming year is \$47,309.00. To this sum must be added \$1,892.40 representing a four per cent service charge to the [REDACTED] B
B [REDACTED] making the total amount for one year \$49,201.40. The [REDACTED] B will function as cutout and cover for this grant. The cover title of the project is [REDACTED] B

B [REDACTED]
4. Total cost of the project for a period of one year will not exceed \$49,201.40. Charges should be made against

[REDACTED]

100-4

[Redacted]

Allotment No. 4125-1390-3902.

B 5. The [Redacted] 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.

6. 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.

C 7. [Redacted] and his associates are cleared through SECRET and are aware of the true purpose of the program.

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

A [Redacted]

TSD/Biological Branch

A [Redacted]

Chief
TSD/Biological Branch

Attachment:
Proposal & Budget

Distribution:
Original only

[Redacted]

100-7

Receipt is hereby acknowledged of [redacted]
Check No. 0128281, dated 4 February 1964,
drawn on the [redacted] payable to [redacted]
[redacted] in the amount of \$1,892.40

B
B
B

Receipt is hereby acknowledged of [redacted]
Check No. 0128282, dated 4 February 1964,
drawn on the [redacted] payable to [redacted]
[redacted] in the amount of \$47,309.00

B
B
B
B!

C [redacted]

Secretary
Date Feb. 7, 1964

100-8

100

[REDACTED]

B

B

[REDACTED]

B

October 15, 1964

[REDACTED]

[REDACTED]

C

B

Dear [REDACTED]

C

Thank you for your letter notifying us that you have no accounting for the grant funds on [REDACTED] for the period of January 1, 1963 through December 31, 1963. I am sending your request to our accounting office in order that they may provide you with these data as soon as it is convenient for them.

B/C

Very truly yours,

[REDACTED]

C

B

[REDACTED]

C

cc: Accounting Dept.

INV 4

100-9

~~_____~~ B

Room 3

November 24, 1964

~~_____~~ c
~~_____~~ B

Subject: Research Grant for the ~~_____~~ B/c

Dear ~~_____~~ c

Set forth below is a financial statement reflecting the activity under the ~~_____~~ for the period 1/1/63 through 12/31/63. b/c

Income \$ 45,403.00

Expenditures:

Salaries	\$ 30,470.00	
Wages	1,049.69	
Other Expense	3,065.84	
Equipment	741.39	
Overhead (20% Direct Costs)	<u>7,065.38</u>	<u>42,392.30</u>

Unexpended Balance \$ 3,010.70

Very truly yours,

~~_____~~ c
Assistant Director
Accounting Operations

~~_____~~ c

100-10

December 14, 1965

[Redacted]

Dear [Redacted]

We wish to request that the time period of the grant made to us for the year 1965 entitled [Redacted] be extended without additional funds for 12 months until December 31, 1966.

The reason for the extension is that the work on this project will be continued under different sponsorship and the amount of approximately \$7500 remaining will be of significant help to us to continue the program during the expected delay in processing the new proposal.

Sincerely yours,

[Redacted Signature]

[Redacted Address]

[Redacted]

A [Redacted], C/ISS/BB, sent copy of this letter
C to [Redacted] on 15 April 1966, and
A [Redacted] said she would send reply extending to 31 Dec 1966 in time only.

Grant #100 fiscal

100-11

REPRODUCTION OF ORIGINAL DOCUMENT

[Redacted] B

Room 3

April 22, 1966

[Redacted] C B

Subject: Research Grant for the [Redacted] B/c

Dear [Redacted] C

Set forth below is a financial statement reflecting the activity under the [Redacted] for the period January 1, 1965 through December 31, 1965. B/c

Income		\$138,230.00
Expenditures:		
Salaries	\$21,365.60	
Wages	3,365.28	
Other Expense	3,864.63	
Equipment	13,492.13	
Overhead (20% of direct cost)	8,417.54	
		<u>50,505.18</u>
		\$ 87,724.82

Previously Reported Expenditures for 1/1/63 - 12/31/64	\$ 80,580.78
Unexpended Balance at 12/31/65	<u>7,144.04</u>

A letter, dated April 12, 1966 from [Redacted] Secretary-Treasurer, requested a final accounting. The grant was extended without additional funds to December 31, 1966 per your letter dated April 13, 1966. A final accounting will be submitted at that time. If further information is needed, please advise. C

Very truly yours,

[Redacted] Assistant Director Accounting Operations C

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

A [Redacted] Date: 27 May 1966

00

00

100-13

[REDACTED]

B

[REDACTED]

B

3 DECEMBER 1963

B

[REDACTED]

B

[REDACTED]

B

Dear Sirs:

We would like to apply for a continuation of our grant for one year to begin January 1, 1964, for support of our studies on [REDACTED]. The studies are under the direction of [REDACTED], and follow the objectives and methods as set forth in our grant proposal of December 4, 1962.

B/c

We have included a proposed budget of \$47,309 to cover the period from January 1, 1964 to December 31, 1964. This amount will support our present study on approximately 30 soil samples per month plus research on detection of soil enzymes. Overhead has been calculated at 20 per cent of direct costs. This budget has the approval of our [REDACTED]

Sincerely yours,

[REDACTED]

e

[REDACTED]

B/c

[REDACTED]

e

[REDACTED]

e

inv 5

100-14

BUDGET

JAN-31 DEC 1964

B/c

C

[REDACTED] (20% of salary)	\$ 2,400
[REDACTED] Research Associate	7,056
[REDACTED] Research Assistant	5,184
[REDACTED] Research Assistant	5,184
[REDACTED] Research Assistant	5,184
[REDACTED] Technician	3,276
[REDACTED] Dishwasher	3,240
Student help, wages	900

Total salaries and wages

\$ 32,424

Replacement and repair of movable equipment	\$ 2,000
Special modifications of sterilizing system to handle new load requirements	1,000
Supplies and materials	3,000
Travel, telephone, publication and misc.	1,000

Total other expense

7,000

Total Direct Costs

\$ 39,424

Indirect costs (20%)

7,885

Total

\$ 47,309

100 5

100-15

DRAFT
14 December 1962

MEMORANDUM FOR : THE RECORD
SUBJECT : MKULTRA, Subproject 100

INV 4

1. The purpose of subproject 100 is to continue support investigations at the [REDACTED] B

B [REDACTED] into soil microorganisms and methods by which maximum information could be obtained from samples of soil. This project is an important link in the entire problem of detection of CW activities in

F [REDACTED]

C2. [REDACTED] B
B [REDACTED] will monitor this project. [REDACTED] is the C principal investigator.

3. The cost of this program for the coming year is \$45,403.00. To this sum must be added \$1,816.12 representing a four per cent service charge to the [REDACTED] making B the total amount for one year \$47,219.12. The [REDACTED] will function as B cutout and cover for this grant. The cover title of the project is

B/c [REDACTED]

4. Total cost of the project for a period of one year will not exceed \$47,219.12. Charges should be made against Allotment No. 3125-1390-3902.

[REDACTED]

100-16.

Date: 14 December 1962

MEMORANDUM FOR: C/TSD/FASS

SUBJECT : MKULTRA, Subproject No. 100

Authorization # 84

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 100 has been approved, and \$47,219.12 of the over-all Project MKULTRA funds have been obligated to cover the subproject's expenses and should be charged to cost center 3125-1390-3902

[Redacted]

A

Concur:

[Redacted signature]

A

Asst. Chief, TSD/R&D 19 DEC 1962

BB Category 16.

Concur:

[Redacted signature]

19 Dec 1962 A

APPROVED FOR OBLIGATION OF FUNDS:

I CERTIFY THAT FUNDS ARE AVAILABLE
OBLIGATION REFERENCE No. 1064
CHARGE TO ALLOTMENT No. 3125-1390-3902

AUTHORIZING OFFICER

A

[Redacted signature]

A

Date: 26 DEC 1962

Distribution:
Orig & 1 - Addressee
2 - TSD/

[Redacted]

[Redacted]

100-18

RECEIPT

Receipt is hereby acknowledged of [REDACTED] Check
No. 196537, dated January 16, 1963, drawn on the
[REDACTED]
payable to [REDACTED]
in the amount of \$45,403.00.

B

Receipt is hereby acknowledged of [REDACTED] Check
No. R20C252, dated January 15, 1963, drawn on the
[REDACTED]
Payable to [REDACTED]
in the amount of \$1,816.12.

B

C

[REDACTED]

Date

Jan 22 1963

REQUEST FOR ADVANCE OF CONFIDENTIAL FUNDS
 NAME OF ADVANCE: [REDACTED] DATE: 27 December 1962
 PAYABLE TO: [REDACTED] ROOM: [REDACTED] BUILDING: [REDACTED]
 TELEPHONE EXT.: \$ 1,816.12 (Reg) VOUCHER NO. (Finance use only): 332880 JAN 16 63
 See attached pay instructions.

PURPOSE: Advance to MUMRA Subproject 100 Invoice # 4 for activity approved by C/TSD on 26 Dec. 1962. Accounting for this advance will be in accordance with attachment A of MUMRA Fiscal Annex.
 Pls. forward the checks to Chief, TED/DB, through TED/Budget Officer, no later than 10 January 1963.

STATUS OF OUTSTANDING ADVANCES
 I agree that I will fully account for this advance by submission of vouchers and refund of any unexpended balance to the reporting point stated and by the due date checked below. In the event of my failure to so account and refund any unexpended balance, I authorize deduction from my salary to effect settlement.

DATE	AMOUNT	UNACCOUNTED BALANCE	REPORTING POINT	DUE DATE
			FINANCE DIVISION - HEADQUARTERS	
			ON ARRIVAL AT DESTINATION ON OR ABOUT	
			MONTHLY - ON THE LAST WORKDAY OF EACH MONTH	

RECEIPT FOR FUNDS ADVANCED
 I acknowledge receipt of funds in the amount stated hereunder to be used for the purpose stated and accounted for as shown above.

REQUESTING OFFICER: [REDACTED] SIGNATURE OF APPROVING OFFICER: [REDACTED]
 DATE: [REDACTED] DATE: [REDACTED]
 I CERTIFY FUNDS ARE AVAILABLE CHARGE ALLOTMENT NO.: 3125-1390-3902
 OBLIGATION REFERENCE NO.: 1053 DATE: [REDACTED]
 SIGNATURE: [REDACTED] AUTHORIZED CERTIFYING OFFICER: [REDACTED] SIGNATURE OF ADVANCE: [REDACTED]

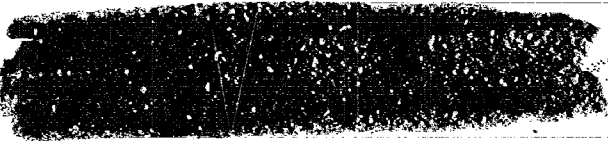
SPACE BELOW FOR EXCLUSIVE USE OF FINANCE DIVISION

DATE	DESCRIPTION - ALL OTHER ACCOUNTS 13-39	34-39 PAYABLE VOUCHER NO.	40-42 PAY PER. TRANS. LIQ. CODE	45-46 PAY PER. TRANS. LIQ. CODE	47-52 GBLIG. RECORD	53 F. Y. ADVANCE ACCT. EMP. NO.	54-57 GENERAL LEDGER ACCOUNT NO.	59-67 ALLOT. ACCOUNT NO.	62-67 CK. NO. X VOU. NO.	68-70 DUE DATE	71-80 AMOUNT
	[REDACTED]										
	DESCRIPTION - ADVANCE ACCOUNTS										
	100 1000 4										
	" " "										
	" " "										

100-22
100

February 21, 1963



B



Attention:  Executive Secretary-Treasurer

C

Gentlemen:

The financial statement set forth below reflects the income received and costs incurred in connection with the  entitled  for the period January 1, 1960 through December 31, 1962.

B

B

I. Total Grant Funds		\$117,360.00
a. Received		
b. To be Received (Fourth Quarterly payment 1961)		7,500.00
		<u>\$124,860.00</u>

II. Less Expenditures

	1/1/60- 12/31/61	1/1/62- 12/31/62	Total
a. Salaries	\$29,102.00	\$17,025.00	\$ 46,127.00
b. Wages	6,836.70	5,209.90	12,046.60
c. Laboratory	24,567.55	432.85	25,000.40
Installation			
d. Equipment	4,624.64	4,129.36	8,754.00
e. Supplies & Materials	8,378.06	2,906.57	11,284.63
f. Travel	947.11	762.83	1,689.94
TOTAL DIRECT COST	<u>74,456.05</u>	<u>30,446.51</u>	<u>104,902.57</u>
OVERHEAD	9,977.70	8,671.61	18,649.31
TOTAL	<u>\$84,433.76</u>	<u>\$39,118.12</u>	<u>\$123,551.88</u>

III. Balance

\$ 1,308.12

I have examined and approved the submitted expenses



A

Chief
TSS/Chemical Division

Date: 2/25/63

100-22

February 21, 1963

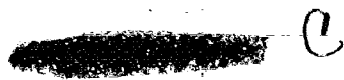
Overhead for the period January 1, 1960 through December 31, 1961 has been computed at 20% of \$49,888.51 (\$74,456.06 total direct cost less \$24,567.55, Laboratory Installation costs which are not subject to overhead). The overhead for the period January 1, 1962 through December 31, 1962 has been computed at 39% of Salaries and Wages (\$22,234.90).

According to our records the fourth quarterly payment of \$7,500.00 for the year 1961 has not been received. Please advise.

Very truly yours,



Controller



c

c

100-23

COPY

[REDACTED]

B

March 14, 1963

C
B [REDACTED]

C Dear [REDACTED]

Enclosed herewith you will find our check in the amount of Seven Thousand Five Hundred Dollars (\$7500.00) drawn on the [REDACTED]

B [REDACTED]

This check represents the fourth ^Cquarterly payment of our research grant to [REDACTED]

B [REDACTED], for the study of effects of pesticides on biological activities in soil. B

We are sincerely sorry for the oversight of not forwarding this check when the same became due during 1961. We hope this has not caused you a great deal of inconvenience on your part.

Very truly yours,

[REDACTED]
Executive Secretary-Treasurer

C

C
Enclosure: check #298

100-24

COPY

March 19, 1963

C
B
[Redacted]

C Dear [Redacted]

For the University and on behalf of the Board of Trustees, I am pleased to accept your check for \$7,500, representing the fourth quarterly payment of your research grant to [Redacted] B
[Redacted], for the study of effects of pesticides on biological activities in the soil.

We greatly appreciate your continued interest in our program and your generous contribution.

Sincerely yours,

C [Redacted]
Vice President & Treasurer

C [Redacted]

C [Redacted]

100-25
12/

[Redacted]

B

[Redacted]

B

B

[Redacted]

June 27, 1963

C

[Redacted]

C

Dear [Redacted]

C

In accordance with a telephone call I received from [Redacted] on June 26, I am sending you copies of a letter of transmittal from [Redacted] from the [Redacted] and also of the acknowledgment for receipt of payment by [Redacted] of our University. I think this will close the books on the missing payment as far as your records are concerned.

I am sorry that you were not informed of this earlier since, as you see, the payment was received in March.

Sincerely yours,

[Redacted Signature]

[Redacted]

c.c. 2 enclosures

Date 5 September 1963

Branch BB Category TECHNICAL SURVEILLANCE
BW & CW Site Detection (Vc)
(formerly Ib)

Project Title Investigations of
Soil Ecology Item Classification N.A.

Project Crypto MKULTRA Crypto Classification Unclassified

Branch Project No. N.A. Project Engineer [REDACTED] *A*

Contractor [REDACTED] *C*

Contract No. Subproject 100 Task No. N.A.

Type of Contract D&E Date Initiated December 1959

Cost \$47,219.12 Completion Date Continuing (renewal Dec.
1962)

Purpose: Research and service facility for CW & RS detection program.

Status: Current & satisfactory in all service & fiscal matters.

Requirement: Memo from Assistant Director/OSI 29 June 1960 "Request
for feasibility study on the collection and analysis of BW
& CW agents". This memo requested a 5 year program.

[REDACTED]

100-27

Date 2 January 1963

Branch BB Category TECHNICAL SURVEILLANCE
BW-CW Site Detection (a) 24,600.70
RS Detection (b) 24,600.70 (Va&b)

Project Title Investigations of Soil Ecology Item Classification N.A.

Project Crypto MKULTRA Crypto Classification Unclassified

Branch Project No. N.A. Project Engineer [REDACTED]

Contractor [REDACTED]

Contract No. Subproject 100 Task No. N.A.

Type of Contract D&E Date Initiated 1 January 1964

Cost FY 64 \$49,201.40 Completion Date 31 December 1964

Purpose: Research and service facility for CW & RS detection program. Work to-date has demonstrated that the microbial flora of the soil responds characteristically to the deposition of small quantities of certain CW agents and rocket fuels and oxidizers. This years work should provide data on theoretical and practical limitations to this approach for gaining intelligence through the collection of samples. These should conclude the feasibility phase of study.

Status: Current and satisfactory in all service and fiscal matters.

Requirement: Memo from Assistant Director/OSI 29 June 1960 "Request for feasibility study on the collection and analysis of BW & CW agents."

A
C

100-28

[REDACTED]

PROJECT CRYPTO : MKULTRA #100
 GRANTEE : [REDACTED] C/B
 PRINCIPAL INVESTIGATOR : [REDACTED] C
 DATE RENEWED : 1 January 1964

During the previous year this project provided for us a continuation of effort to derive information concerning CW and Rocket Site activity from soil samples, based on the ecological effects of these chemicals on microbial populations. It was the first year which saw a definite, easily recognizable change in the biosphere of the soil related to a specific class of compounds.

Several thousand individual analyses were made by [REDACTED] C
 [REDACTED] group on soil from five experimental plots. Con-
 current with these routine analyses several new approaches
 were studied by [REDACTED] C One of these new concepts, a
 radical departure from our original approach, is believed
 to be a breakthrough for this program based on preliminary
 data. The approach depends on an [REDACTED] concept which,
 if proved accurate, offers a much greater tool for deriving
 information from soil than we have ever had before. H

We have one experiment underway which should conclude the necessary effort for establishing feasibility of the original approach. This experiment should be concluded by June 1964. Parallel to this and for the remainder of the contract year (Jan. 1 to Dec. 31, 1964) [REDACTED] has C
 agreed to pursue the [REDACTED] concept.

H

[REDACTED]

B 5. The [REDACTED] 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.

6. 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.

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

C 8. [REDACTED] and his associates are cleared through SECRET and are aware of the true purpose of the program.

A [REDACTED]
TSD/Biological Branch

A [REDACTED]
Chief
TSD/Biological Branch

Attachment:
Budget

Distribution:
Original only

[REDACTED]

[REDACTED]

B/C

Budget for January 1, 1963 to December 31, 1963

C	[REDACTED] (20% of salary)	\$ 7,470
	[REDACTED], Research Associate	7,056
	[REDACTED], Research Assistant	5,134
	[REDACTED], Research Assistant	5,134
	Unfilled, Research Assistant	5,134
C	[REDACTED], Mechanician	3,648
	[REDACTED], Mechanician	2,832
	Student help, wages	900

Total salaries and wages

\$31,836

Replacement and repair of movable equipment	\$ 2,000
Supplies and materials	3,000
Travel, telephone, publication & misc.	1,000

Total other expenses

6,000

Total Direct Costs

\$37,836

Indirect costs (20%)

7,567

Total

\$45,403

INV †

100-29

[Redacted]

B

B

[Redacted]

B

November 4, 1964

[Redacted]

C
B
[Redacted]

C
Dear [Redacted]

We would like to apply for a continuation of our grant for one year to begin January 1, 1965, for support of our studies on [Redacted]. The studies are under the direction of [Redacted] and follow the objectives and methods as set forth in our grant proposal of December 4, 1962.

B/e

B/e

We have included a proposed budget of \$45,518 to cover the period from January 1, 1965 to December 31, 1965. This amount will support our present studies on detection of soil enzymes. Overhead has been calculated at 20 per cent of direct costs.

Sincerely yours,

C

[Redacted Signature]

[Redacted]

C

[Redacted]

C

Encl.

100-29

B/e

[redacted] (20% of salary)	\$2,600	
[redacted] Research Assistant	6,480	
[redacted] Research Assistant	5,328	
[redacted] (replacement), Research Assistant	5,328	
[redacted] Technician	3,576	
[redacted] Technician	3,480	
Dishwasher	3,240	
Student help, wages	900	
Total salaries and wages		\$30,932
<hr/>		
Replacement and repair of movable equipment	\$3,000	
Supplies and materials	3,000	
Travel, telephone, publication and misc.	1,000	
Total other expense		7,000
<hr/>		
Total Direct Costs		\$37,932
Indirect Costs (20%)		7,586
<hr/>		
Total		\$45,518

100-30

[Redacted]

B

B

[Redacted]

B

369
1-23-63

[Redacted]

December 4, 1962

[Redacted]

B

Dear Sirs:

We would like to apply for a grant for one year to begin January 1, 1963, for support of our studies on [Redacted] and are designed to evaluate existing methods and to develop new methods for defining the numbers and biological activities of various segments of the soil microbial population. These methods will be used in determining the immediate and long range effects on microbial populations of the various insecticides, herbicides and other poisons which may find their way into the soil.

B/c

The methods under study include the determination of total numbers of soil bacteria by both plating and microscopic methods as well as determinations of the relative numbers of Gram negative, spore-forming, salt tolerant, nitrifying, denitrifying and nitrogen-fixing bacteria. The relative numbers of actinomycetes and fungi also are being evaluated. Methods are being developed for ascertaining the overall dehydrogenase activity of the soil microflora. The activities of individual soil enzymes such as urease, phosphatase, etc., also are under investigation.

We have included a proposed budget of \$45,403 to cover the period from January 1, 1963 to December 31, 1963. This amount will support our present study on approximately 30 soil samples per month plus research on detection of soil enzymes. Overhead has been calculated at 20 per cent of direct costs. This figure has the approval of our [Redacted]

C

C

Sincerely yours,

[Redacted Signature]

C

[Redacted]

C

[Redacted]

C

Encl.

100-30

Budget for January 1, 1963 to December 31, 1963

(C) ██████████ (20% of salary)	\$ 2,400
██████████ Research Associate	7,056
██████████, Research Assistant	5,184
██████████, Research Assistant	5,184
Unfilled, Research Assistant	5,184
██████████, Technician	3,048
██████████, Dishwasher	2,880
Student help, wages	900
	<hr/>
Total salaries and wages	\$31,836
Replacement and repair of movable equipment	\$ 2,000
Supplies and materials	3,000
Travel, telephone, publication & misc.	1,000
	<hr/>
Total other expense	6,000
Total Direct Costs	\$37,836
Indirect costs (20%)	7,567
	<hr/>
Total	\$45,403

100-31

[REDACTED]

B

B

[REDACTED]

B

[REDACTED]

November 6, 1961

C
B
[REDACTED]

C Dear [REDACTED]

I am requesting the renewal of the grant on the effect of pesticides on biological activities in soil from the [REDACTED] for the sum of \$41,360 to begin January 1, 1962 for one year. B

The increase over last year is due to increasing expenses of personnel and a request from our business office to calculate indirect costs as 39% of salaries. This is the standard rate arrived at for research operations at [REDACTED] during the last year. B

The items in the proposed budget and the change in indirect costs have been discussed with your representative and are approved by him.

The increase in the salary item is already reflected in our present operation costs for this present year so that we will not have sufficient funds to meet our payroll for the last month of this year's grant; that is, January 1962. Therefore, on the advice of your representative we are requesting renewal of the project as of January 1, 1962 instead of February 1, 1962. Any unexpended funds that are on the books as of January 1, 1962, will be duly reported by our business office. We understand that the amount will be subject to deduction from one of the payments made by the [REDACTED] during the coming year. B

If you have questions to direct to me, do not hesitate to call at [REDACTED]

B [REDACTED]

Sincerely yours,

[REDACTED]

C

C

[REDACTED]

C

Enclosure

[REDACTED]

C

300 WORD PROJECT SUMMARY

Date: December 16, 1939

Title of Project: [Redacted] B/c

Name of Principal Investigator: [Redacted] e

Institution to Which Principal Investigator is Attached: [Redacted] B

SUMMARY OF PROPOSED PROJECT: (300 words or less—See Sec. XII, Par. 1, Statement of Policy)

The past twenty years has brought about at least a ten-fold increase in the sale and use of organic pesticides including insecticides, herbicides and various fungicides, with new types being introduced each year. The wide-spread use of such chemical additives in soils raises several important questions.

- 1) Is there a tendency for certain of these compounds to accumulate in soil following repeated use year after year?
- 2) Do some organic compounds undergo degradation to products that may accumulate or reach a level that is physiologically active?
- 3) Is such an accumulation likely to have a measurable effect on soil fertility or on crops grown on these soils?
- 4) If such an accumulation occurs, does it present a possible danger of transfer to animals and man?

The purpose of this investigation is to attempt to get answers to these questions by examining the microflora and biological activities of soils with a history of treatment by various pesticides versus control or untreated soils. It is hoped that a series of sensitive methods, either microbiological or biochemical, can be developed in order to help the possible accumulation of such residues.

During the initial year of this proposed research the principle objectives will be:

- 1) To determine satisfactory techniques for the biochemical and microbiological examination of soils that have received organic chemical additives used in controlling insects, weeds, fungi and other pests.
- 2) To determine the effects of the addition of specific pesticides on the normal biological activities in representative soils.
- 3) To determine the effect of soil microorganisms on organic pesticides with particular attention to the possible accumulation of derivatives that may be toxic to animals and man.

100-33

Proposed Budget - Pesticide Project
January 1, 1962 to December 31, 1962

Salaries

(C) [REDACTED] (replace)	\$ 6048
[REDACTED]	4520
[REDACTED]	4608
[REDACTED]	4164
Dishwasher	3000
Graduate Asst. (half time)	2400
Summer wages	600
	<u>\$25,440</u>
Indirect costs - 39% of salaries	9,920
Supplies and Materials	5000
Travel and Miscellaneous	1000
	<u>6,000</u>

\$41,360

100-35

[REDACTED]

Date: 23 November 1961

MEMORANDUM FOR: The Comptroller
ATTENTION : Finance Division
SUBJECT : MURKIN, Subproject No. 100

Under the authority granted in the memorandum dated 13 April 1958 from the DCI to the ID/A, and the extension of this authority in subsequent memoranda, Subproject 100 has been approved and \$43,014.40 of the over-all Project MURKIN funds have been obligated to cover the subproject's expenses and should be charged to cost center 2125-1390-3902.

[REDACTED]
Chief,
TSD/Biological Branch

A

APPROVED FOR OBLIGATION OF FUNDS: [REDACTED] A

Approved Date: 30 Nov 61

I CERTIFY THAT FUNDS ARE AVAILABLE.
OBLIGATION REFERENCE IS: 1002
CHARGE TO ALLOWANCE NO. _____
AUTHORIZING OFFICER

Distribution:
Comptroller & H - Addressee
1 - TSD/FASS
2 - TSD/BB

[REDACTED]

100-36

December 12, 1961

B [REDACTED]

Gentlemen:

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

B Cashier's Check No. A112451 drawn on [REDACTED] payable to [REDACTED] in the amount of \$41,360.00. B

B [REDACTED] Check No. SE 3495 drawn on [REDACTED] payable to [REDACTED] in the amount of \$1,654.40. B

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

Yours truly,

Enclosures (2 checks)

100-37

1 December 1961

MEMORANDUM FOR: C/DBP, FINANCE DIVISION

VIA: TSO/Budget Officer

SUBJECT: MCHSEA, Subproject 100, Invoice #3
Attachment 2000-1390-3002

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

B Cashier's check in the amount of \$1,350.00 payable to [redacted], drawn on [redacted] E

B Cashier's check in the amount of \$1,654.40 payable to [redacted], drawn on [redacted] E

2. Please forward the checks to Chief, DBP/BA, through TSO/Budget Officer, no later than 8 December 1961.

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

*rec'd
11 Dec 61*

[redacted]
Chief
TSO/Biological Branch

A

Attachments:
Invoice & Certification

Distribution:
orig & 2 - Addressee

- 1 - TSO/PASS
- 2 - TSO/BB

DDP/TSO/BB/[redacted]

A

[redacted]

100-37

INVOICE

For Services

\$43,014.40

[REDACTED]

B

CERTIFICATIONS

(1) It is hereby certified that this is Invoice #3 applying to Sub-project No. 100 of KRULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSD/EE, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSD/Biological Branch

Date: 4 December 1961

(2) It is hereby certified that this invoice applies to Subproject 100 of KRULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum of 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Date:

[REDACTED]

100-38

[REDACTED]

Date: 23 November 1961

MEMORANDUM FOR: The Comptroller
ATTENTION : Finance Division
SUBJECT : MARIANA, Subproject No. 100

Under the authority granted in the memorandum dated 13 April 1953 from the DCI to the DA/A, and the extension of this authority in subsequent memoranda, Subproject 100 has been approved and \$43,014.40 of the over-all Project MARIANA funds have been obligated to cover the subproject's expenses and should be charged to cost center 2125-1390-3902.

[REDACTED]
Chief,
TSD/Biological Branch

A

APPROVED FOR OBLIGATION
OF FUNDS:

Branch Director

Date: _____

Distribution:
Original & 2 - Addressee

- 1 - TSD/FASS
- 2 - TSD/BD

[REDACTED]

100-39

Date 23 July 1962

Branch DD Category Cl. & RS Detection (Info)

Investigations of
Project Title DDI - eology Item Classification N.A.

Project Crypto DDI TDA Crypto Classification Unclassified

Branch Project No. N.A. Project Engineer [REDACTED] A

Contractor [REDACTED] C/B

Contract No. Project #100 Task No. N.A.

Type of Contract DD Date Initiated Dec. '59

Cost 3,000.00 Completion Date Continuing (Renewal Nov. '61)

Purpose: Research & Service facility for CW & RS detection program.

Status: Current & satisfactory in service & fiscal matters.

[REDACTED]

100-40

DRAFT
28 November 1961

MEMORANDUM FOR THE RECORD

SUBJECT: MKULTRA, Subproject 100

1. The purpose of subproject 100 is to continue support investigations at the [redacted] into soil microorganisms and methods by which maximum information could be obtained from samples of soil. This project is an important link in the entire problem of detection of [redacted] activities in [redacted]

B

B

F

2. The [redacted] has organized a laboratory which will examine samples of soil and other material received in the [redacted] detection program. These samples will be analyzed for the maximum microbiological information. This information will then be prepared in a report which will be of maximum benefit to the intelligence analysts.

3. [redacted] will monitor this project. [redacted]

B

B

C

and [redacted] are the principal investigators.

4. The cost of this program for the coming year is \$41,360.00. To this sum must be added (\$1,654.40) representing a four per cent service

[redacted]

100-40

charge to the [redacted], making
the total amount for one year \$43,014.40. The [redacted] will
function as cutout and cover for this grant. (The cover title of
the project is [redacted])

B
B

B/c

B/c

5. Total cost of the project for a period of one year will
not exceed (\$43,014.40.) Charges should be made against Allotment
(No. 2125-1390-3902.)

6. The [redacted] 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. 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.

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

9. [redacted] and his associates are cleared through SECRET
and are aware of the true purpose of the program.

[redacted signature]

TSD/Biology Branch

APPROVED FOR OBLIGATION OF FUNDS:

[redacted signature]
Research Director

A

APPROVED:

[redacted signature]

Chief
TSD/Biology Branch

A

Date: _____

Attachment:
Proposed Budget

Distribution:
Original only

[redacted]

100-40

Proposed Budget

Salaries.....	\$25,440
Rental of Equipment.....	2,000
Supplies.....	3,000
Travel and Miscellaneous.....	1,000
	<u>31,440</u>
Overhead (39% of salaries)	<u>9,920</u>
Total...	41,360

100-43

7 December 1960

MEMORANDUM FOR: COMPTROLLER
ATTENTION : Finance Division
SUBJECT : ISUMINA, Subproject 100

Under the authority granted in the memorandum dated 13 April 1953 from the DSI to the DO/A, and the extension of this authority in subsequent memoranda, Subproject 100 has been approved and \$31,200.00 of the over-all ISUMINA project funds has been obligated to cover the subproject expenses. This obligation of funds should be charged to Allotment No. 1125-1309-3902.

[Redacted] A
Chief
TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS: [Redacted] 12/1/60
[Redacted] ARE AVAILABLE
112-1
1125-1309-3902
[Redacted]

Research Director
Date 12/1/60

Distributions:
Orig. & 2 - Addressees
1 - TSD/OC
1 - TSD/PASS
2 - TSD/RD

7 Dec 60 TSD/RB/[Redacted] A

100-45

December 29, 1960

[Redacted] B

Gentlemen:

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

B Cashier's Check No. 2-021054 drawn on the [Redacted] B
[Redacted] for \$30,000.00

B [Redacted] Check No. 259048 drawn on the [Redacted] B
[Redacted], for
\$1,200.00.

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.
(2) checks

100-46

19 December 1960

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA: TSD/Budget Officer

SUBJECT: KALIFAS, Subproject 100, Invoice #2
Allotment 1125-1390-3902

0-5

1. Invoice #2 covering the above subproject is attached.
Payment should be made as follows:

B Cashier's check in the amount of \$30,000.00 payable
to [redacted] drawn on
[redacted] E

B Cashier's check in the amount of \$1,600.00 payable
to [redacted] drawn on
[redacted] E

2. Please forward the checks to Chief, TSD/Research Branch,
through TSD/Budget Officer, no later than 30 December 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 Branch

Attachments:
Invoice & Certifications

Distribution:
Orig & 2 - Addressee
1 - TSD/FA33
2 - TSD/RB

[redacted]

100-46

INVOICE

For Services

\$31,200.00

B

CERTIFICATIONS

(1) It is hereby certified that this is Invoice #2 applying to sub-project No. 100 of MARIANA, 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 ESD/EC, that this bill is just and correct and that payment thereof has not yet been made.

Chief, ESD/Research Branch

Date: _____

(2) It is hereby certified that this invoice applies to Subproject 100 of MARIANA which was duly approved, and that the project is being carried out in accordance with the memorandum of 13 April 1953 from the DGI to the ED/A, and the extension of this authority in subsequent memoranda.

Research Director

Date: _____

100-47

A

[REDACTED]

NO: TSD/CC

continuation

This is a continuation of a
xxx project.

1. Purpose of Project:

Analysis of soil samples used in
BW/CW detection.

2. Project Location

[REDACTED]

A

[REDACTED]

G

[REDACTED]

100-48

[REDACTED]

DRAFT
7 December 1960

MEMORANDUM FOR THE RECORD

SUBJECT: MKULTRA, Subproject 100

1. The purpose of subproject 100 is to continue support investigations at the [REDACTED] B
[REDACTED] into soil microorganisms and methods by which maximum information could be obtained from samples of soil. This project is an important link in the entire problem of detection of BW activities [REDACTED] F

B 2. The [REDACTED] has organized a laboratory which will examine samples of soil and other material received in the BW detection program. These samples will be analyzed for the maximum microbiological information. This information will then be prepared in a report which will be of maximum benefit to the intelligence analysts.

C 3. [REDACTED] B
will monitor this project. Two principal investigators, who have been cleared are actively conducting the work in the laboratory.

4. The cost of this program for the coming year is \$30,000.00. To this sum must be added \$1,200.00 representing a four per cent service charge to the [REDACTED] B
making the total amount for one year \$31,200.00. The [REDACTED] B
will function as cutout and cover for this grant. The cover title

[REDACTED]

100-48

of the project is

[REDACTED]

B/c

B/c

5. Total cost of the project for a period of one year will not exceed \$31,200.00. Charges should be made against Allotment No. 1125-1309-3902.

B 6. The [REDACTED] 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 investigators is waived.

C 10. [REDACTED] and his associates are cleared through SECRET and are aware of the true purpose of the program.

APPROVED FOR OBLIGATION OF FUNDS:

[REDACTED] Chief TSD/Research Branch

A

[REDACTED] Research Director

A

Date: 12/1

Attachment: Proposed budget

Distribution: Orig only

[REDACTED]

100-48

Proposed Budget

Salaries.....	\$17,000
Equipment.....	3,000
Supplies.....	1,000
Travel and Miscellaneous.....	2,500
Consultants' Fees	2,500
	<u>25,000</u>
Overhead (20%)	5,000
	<u>30,000</u>
Total	30,000

100-49

10 November 1960

MEMORANDUM FOR: THE RECORD

SUBJECT : Continuation of MKULTRA,
Subproject 100

The above project will expire officially on 8 December 1960. However, the progress of the project warrants the continuation of this program. Therefore, Subproject 100 is hereby extended for a period of two months from the date of expiration (1 February 1960). Funds are available within the project.

[Redacted signature]

A

Chief
TSD/Research Branch

Distribution:
Original only

[Redacted footer]


100-50



7 December 1960

MEMORANDUM FOR: CONTROLLER
 ATTENTION : Finance Division
 SUBJECT : MKULTRA, Subproject 100

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 100 has been approved and \$31,200.00 of the over-all MKULTRA project funds has been obligated to cover the subproject expenses. This obligation of funds should be charged to Allotment No. 1125-1300-3902.


 Chief
 TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS:

Research Director

Date

Distribution:

Orig. & 2 - Addressee

- 1 - TSD/CC
- 1 - TSD/PASS
- 2 - TSD/RB

7 Dec 60 TSD/RB




100-52

7 December 1959
~~17 September 1959~~


MEMORANDUM FOR: COMPTROLLER
ATTENTION : Finance Division
SUBJECT : MKULTRA, Subproject 100

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 100 has been approved and \$35,640.00 of the over-all MKULTRA project funds has been obligated to cover the subproject expenses. This obligation of funds should be charged to Allotment 0025-1009-4902.


Chief
TSS/Chemical Division

A

APPROVED FOR OBLIGATION
OF FUNDS:


Research Director

A

Date:

Distribution:
Orig & 2 - Addressee

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

(7 Dec. 59)

TSS/CD/ 

A



100-54

MEMORANDUM RECEIPT

DATE

TO:

FROM:

SUBJECT:

I hereby acknowledge receipt of the following:

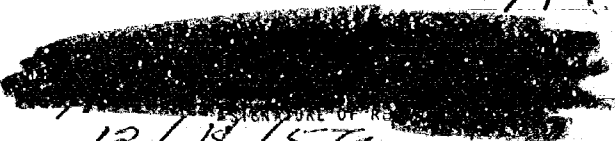
MK Ultra Sub 100

53,500.00

2,140.00

A

Please return signed copy(ies) of this receipt



To

12/18/59

DATE RECEIVED

FORM NO. 752 REPLACES FORM 36-65
1 AUG 55 WHICH MAY BE USED.

100-55

18 December 1959

[Redacted]

B

Gentlemen:

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

B Check #244909 drawn on the [Redacted] B
[Redacted] for \$53,500.00.

B Check #171045 drawn on the [Redacted] B
[Redacted] for \$2,140.00.

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

Yours truly,

Enclosures: (2)

100-56

10 December 1959

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA : TSS/Budget Officer

SUBJECT : ANULTRA, Subproject 100, Invoice #1,
Attachment 0925-1009-4902

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

Cashier's check in the amount of \$63,500.00 payable
to [REDACTED], drawn on
B [REDACTED] E

Cashier's check in the amount of \$2,140.00 payable
to [REDACTED], drawn on
B [REDACTED] E

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

Attachments:
Invoice & Certifications

Distribution:
Orig: 2 - Addressee

1 - TSS/FASB
2 - TSS/CD

TSS/CD. [REDACTED] A [REDACTED]

100-56

INVOICE

For Services

\$55,640.00

[REDACTED]

B

CERTIFICATIONS

(1) It is hereby certified that this is Invoice #1 applying to Subproject 100 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 100 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]

100-57

D R A F T
~~17 September 1959~~
7 December 1959

MEMORANDUM FOR: THE RECORD

SUBJECT : MKULTRA, Subproject 100

1. The purpose of subproject 100 is to support investigations at the [REDACTED] B

B [REDACTED] into soil microorganisms and methods by which maximum information could be obtained from samples of soil.

This project is an important link in the entire problem of detection of BW activities in [REDACTED] F

B 2. [REDACTED] will organize a laboratory which will examine samples of soil and other material received in the BW detection program. These samples will be analyzed for the maximum microbiological information. This information will then be prepared in a report which will be of maximum benefit to the intelligence analysts.

C 3. [REDACTED] B
will monitor this project. A principal investigator, who is now in the process of being cleared, will be appointed at a subsequent date.

4. The cost of this program for the first year is \$53,500.00. To this sum must be added \$2,140.00 representing a four per cent service charge to the [REDACTED] B

[REDACTED]

100-57

B

making the total amount for one year \$55,640.00. The [redacted] will function as cut out and cover for this grant. The cover title of the project is [redacted]

[redacted] B/c

B/c

5. Total cost of the project for a period of one year will not exceed \$55,640.00. Charges should be made against Allotment No. 0525-1009-4902.

B 6. The [redacted] 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.

X 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.

[redacted]

100-57

C10. [redacted] and his associates are. is cleared through SECRET and is aware of the true purpose of the program.

[redacted]

A

TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS:

APPROVED:

A [redacted]

[redacted]

A

Research Director

Chief TSS/Chemical Division

Date: 12/8/59

Attachment: Proposed budget

Distribution: Original only

[redacted]

100-57

PROPOSED BUDGET

Salaries	\$17,500
Equipment	4,500
Supplies	5,700
Special Culture Media	3,600
Clerical	750
Travel and Miscellaneous	1,500
Consultants' Fees	7,200
Purchase of Specialized Services	8,000
	<u>\$48,750</u>
Overhead (20%)	<u>4,750</u>
TOTAL	\$53,500