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project Manimal, Subproject 105 Date Initiated: 20 January 1960

Date Expires: 30 June 1962

Funda-current year: \$4,000.00

Purpose: This project supports research on determinants of virulence in pathogenic backerin. It provides consultation services on problems related to maintenance of virulence. In Vivo and Vivo characterization data willbe developed.

Status: A continuing research. This is a long research but information has been developed to meet at hoc requirements derived from other but related programs of TED interest-

Gentlemen

We enclose a statement of account for the period July 1 1961 through June 30, 1962 for the grants for the support of

We apologize for not sending the statement at the proper time after June 30.

Our records indicate that the grant was extended through December 31, 1962, therefore, a statement for the final six month period is now due. The accounting records show some unliquidated commitments at the end of the grant period and we would prefer to withhold the final statement until all payments have been made so that we may report an actual cash balance and make a refund of the exact amount. If this is not acceptable for your purposes, please advise us and we will prepare a statement based on expenditures and outstanding commitments.

> Director of Contracts Fiscal Administration

Professor



0 105-3

Professor :

Period: 7/1/61 - 6/30/62

#### Receipts:

Cash Balance,	mly 1, 1961	\$ 170.22
	November 10, 1961	1,000.00
Cash Received,	December 1, 1961	1,000.00
	February 2, 1962	1,000.00
	April 20, 1962	1,000.00

Total Cash Available

\$ 4,170.22

#### Disbursements:

General Supplies	and Services	\$ 702.07
Travel		104.62
Special Services	and Honorariums	250.00
Equipment		272.00

Subtotal

1,328.69

Indirect Costs

-21.68

Total Disbursements

1,350.37

Cash Balance, June 30, 1962 -

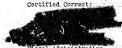
\$ 2,819.85

#### Commitments:

Committed as of June 30, 1962

Belance Uncommitted and Unexpended

554.80



February 4, 1963

I fore or well-of with the 0270772

Date:

February 6, 1563

the enclose a statement of account for the posted July 1, 1961 through the 90, 1962 for the greats for the copper of property of the statement of the statement

Our recents initiate that the great was extended through Danshing it, 1909, therefore, a statement for the final cit much period is now then. The seconding records share can walterstanded conditionable of the great partied and sea would prefer to without the final restance with all payments here been saids so that or may report an estable cash belong and saids a rathed of the court wount. If this is not expressed here they purposes, places advice us can use it will prepare a students based on a speciality of the court wount.

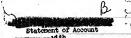
Very truly yours,

Piccal Administration

car Professional Company

I have examined and arrayved the submitted expenditures.

Chief TSD/Biological Branch



Period: 7/1/61 - 6/30/62

## Receipts:

Professor

Cash Balance, July 1, 1961	170.22
Coon Decours out as about	1,000.00
Cran Received, November 10, 1961	
Cenh Received, December 1, 1961	1,000.00
Cash Received, February 2, 1962	1,000.00
Cash Received, represely c) 1702	1,000,00
Cook Received, April 20, 1962	1,000.00

Total Cash Available

\$ 4,170.22

#### Disbursements:

Concral Sugalies and Services	\$ 702.07
Travel	104.62
Special Services end Ronorariums	250,00
	272.00
Equipment	

Subtotal

\$ 1,328.69 21.68

Indirect Costs

1,350.37

Total Disburscients Cash Balance, June 30, 1962

\$ 2,819.85

## Countiments:

Occupitted as of June 30, 1962

Balance Uncommitted and Unexpended

554.80

Certified Correct:

Fiscal Administration

I have examined and improved the submitted expenditures.

TSD/Biological Branch

February 4, 1963

0

Dear

The did not send a report last July six months extension that a report vould be due after the books were closed as of January 1, 1963. At all events, they are preparing now a summary accounting for the year July 1, 1961 to June 30, 1962. They will send me copies of this within the next several days, and I will send the on to you. Also, copies will be sent to the In addition, they will prepare an accounting summary for the six months from July 1, 1962 to December 31, 1962. I will send you a copy of this six months accounting when it is available.

With best regards,

C.

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finite(a)	\$ 3,359.15

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T.

We propose to isolate from various animals (including man) by masal swab organisms that are classified by usual bacteriological techniques as StablyNococcus surery. Strains of Sr aureus are important as causative agents of infection in man and, also, for production of a toxin that causes food belsoning in man, Strains of S. aureus also cause infection in other animals. We prove to study in vitro and in vivo characteristics of S. aureus strains from various animal effects to determine if host adaptation cours in the stablylococci as does occur for example, in the salmonellae. In vitro characterization vill include test for various hemolysins, type of cognilase, lines activity, In syro characterization vill include test for demoncrotic toxin, enterotxin, and infectivity for nice.

## ()

#### 1. RESEARCH PLAN:

#### A. Specific Aims

To character ze by both in vitro and in vivo studies Stephylococcus aureus of verious animal origins (including man) to determine it host adaptation of these microorganisms occurs. For example, are S. aureus isolated from human beings different from S. aureus isolated from dogs?

#### B. Method of Procedure

Isolation from masal swebs (and infections where available = e.g., leader in mem, arthritis in chickens, mastitis in cattle, bladder infections in mink) of S. surrous using mannitol salt agar, Difeo 110 agar, and tellurite glycine agar. After establishment of Fure outlawes determine kind of heavysine, phage type, type of coagulase, lipase activity, fibrinolysis, DN ase, and antiblotic sensitivity. In vivo characterization will include test for dermomerate toxin, enterloxin, and infectivity for mice. A long tom approach would include serological studies of Possible differences between strains using the Outherlony technique.

#### C. Significance of This Research

The biology of the staphylococci needs investigation to determine if there is adaptation to different saimal species. Such terms as "human" staphylococci, and "boyins" staphylococci are used without a real basis for their use except to mean the source of the particular culture.

#### D. Facilities Available

Laboratories and animal rooms are available. No unusual equipment is required and the usual bacteriological equipment is available.

The purpose of this laboratory is to make a continuing survey of rabies in wild animals by trapping. Through the cooperation of Public we obtain nasal swabs from the animals. This then gives a source of wild animals that have not been in contact with man.

#### 2. PREVIOUS WORK DONE ON THIS PROJECT:

We have used most of the techniques listed in Paragraph B (Research Plan) in studies on the pathogenesis of stablylococci. We have also studied the in vitro characteristics of stablylococci causing soute bovine mastitis and chronic bovine mastitis. We have started to isolate stablylococci from meal swabs of various animals. During the past year we have exemined neal swabs from deer, foxes, skurks; and oppossums as well as from laboratory animals such as rabbits and nice. We are currently doing laboratory in vitro tests on the stablylococcal cultures that have been isolated.

#### 3. PERSONAL PUBLICATIONS:

1

#### 3. PERSONAL PUBLICATIONS (continued)



#### 4. RESULTS OBTAINED BY OTHERS:

Many workers have characterized stackylococci isolated from nasal swabs from husen beings (fack, S. D. "Stankylococcos propense and Its Relation to Disease" 1959, R. and S. Isvingstone Itd., Edinburgh and London), and from milk from dairy cattle (Reid W. and Wilson) J. B., Am J. Yet. Res. 20, 825 (1959). There has also been extensive work on characterization of stellylococci from infections in humen boings, but limited work has been done on characterization of stellylococci from infections in other similals (e.g., Sattle, H. W., J. Fath. and Bacteriol. 57, 13 (195h). Rountree (J. of Fath. and Eacteriol. 27, 13 (1956) has done Phage typing of stemplylococci from nasal swabs from various laboratory and demestic animals. Thus it would seem appropriate in a laboratory where extensive work on stemplylococci per se is being done that a detailed investigation be carried out of the characteristics isolated from various sinked Sections.

103)

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June 30, 1962

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July 1, 1961

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 $\Diamond$ 

south Assistant - Graduate Student

#### 300 WORD PROJECT SUMMARY

Date: March 3, 1960

Name of Principal Investigator:

Institution to Which Principal Investigator is Attached:

3

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

We propose to isolate from various animals (including ran) by masal swab organisms that are classified by usual becteriological techniques as Stephylococcus aureus. Strains of S. aureus are important as causative agents of infection in man and, also, for production of a total that causes food potenting in man. Strains of S. aureus also causes infection in other animals. We propose to study in vitro and in vivo characteristics of S. aureus strains from various animal species to determine if host adaptation occurs in the staphylococci as does occur for example, in the salmonelles. In vitro characteristic until include test for various heavlysins, type of cospulace, lipase activity, NI ase activity, fibrinolysts, phage pattern and antibiotic sensitivity. In vivo characterisation will include test for carmonecrotic toxin, enterotoxin, and investivity for nice.

105-gu

as set forth in the

## APPLICATION FOR A GRANT

		Date March 3,	1960
Name of Principal Investigator:			C
Amount Requested: \$4,000	for a period of	twelvemo	nths, from
July 1, 1960	through June	30, 1961	
Title of Project:			Marie C.
Name and Title of Principal Investigator:			A CONTRACTOR OF THE PARTY OF TH
Address of Principal Investigator:			
Name of Institution:	()		
Name, Title and Address of Financial			
Officer to Whom Check Should be Mailed			
As well as Exact Payee to Whom		المسلم المستعدد	В.
Check Should be Endorsed:			
AGREEMENT: It is understood by the app in signing this application (1) they are to be used only for the purposes	agree that funds gr	ranted as a result of	this request

abide by the policy of the "STATEMENT OF POLICY."

Signature of Principal Investigator

Signature of Official Authorized to sign for Institution

Title of Authorized Official

No	-	

#### BUDGET SHEET

NOTE: Under column entitled "OTHER" indicate, if any, funds anticipated from other sources to be applied to this project.

BUDGET Requested from Other Foundation PERSONNEL: (Professional and technical assistants, including duties. Indicate names of professional personnel if already selected) Research Assistant (Graduate student to be selected.) \$2,148 PERMANENT EQUIPMENT: (Itemize) CONSUMABLE SUPPLIES: (Itemize) Culture Media...\$292 Animals..... 200 Animal Feed.... 100 Classware ..... 200 TRAVEL: (State Purpose) To attend Soc. of To study techniques in Dr. laboratory in 500 To collect samples ....... OTHER EXPENSES: (Itemize) OVERHEAD: (See "STATEMENT OF POLICY," Sec. VIII, Par. 7) 492 \$4,000 Total =

Estimate of funds required to complete project if one year is not sufficient to bring to completion:

\$4,000

-B

Note: The principal investigator has \$20,000 per year from the and other sources to study virulence factors in staphylococcal infections. None of this money is available for work outlined in the present proposal.

#### RESEARCH PROPOSAL

This Department has had under investigation studies on virulent and non-virulent Staphylococci. It is expected that by investigation of biochemical properties and metabolic functioning of the major genetic variants, indicators would be identified to mark the virulent Staphylococci. The project, therefore, has genetic, metabolic, and nutritional components. The varieties of toxins produced by the various Staphylococci as well as the intensity will be determined as sub-areas in this study. It is expected that the eventual goal of this investigation will be biochemical tests which will identify the organisms of interest.

0 105-7

## PROPOSED BUDGET

 Pay of personnel
 \$3,200.00

 Travel
 200.00

 Supplies
 600.00

Total \$4,000.00

0 . .

#### DRAFT 22 December 1959

MEMORANDUM FOR: THE RECORD

SUBJECT

: MKULTRA, Subproject 105

i. The purpose of subproject 105 is to support investigations at the the determinants of virulence in Staphylococci. This study is an important fundamental investigation which can lead to an increased understanding of the process of pathogenesis.

z. Dr. will be the principal investigator.

3. The cost of this program for the first year is \$4,000,00.

To this sum must be added \$160,00 representing a four per cent service charge to the making the total amount for one year \$4,160.00. The will function as cut out and cover for this grant. The cover title of the project is

4. Total cost of the project for a period of one year will not exceed \$4,160.00. Charges should be made against Allotment No. 0525-1009-4902.

5. The 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. Title to any permanent equipment purchased by funds granted the University shall be retained by them in lieu of higher overhead rates.
- 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 investigator is waived.
- 9. Dr. is cleared through SECRET and is aware of the

TSS/Chemical Division

APPROVED FOR OBLIGATION

APPROVED

0

THE RESERVE OF THE PARTY OF THE	
Research Director	-

Chief

Date:

1/20/60

TSS/Chemical Division

Attachment:

Proposed budget and proposal

Distribution: Original only

7.

29 December 1959

MEMORANDUM FOR: COMPTROLLER

ATTENTION

: Finance Division

SUBJECT

: MKULTRA, Subproject 105

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 105 has
been approved and \$4,160.00 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.

Chief TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS:

Research Director

A

1:0101

Distribution: Orig & 2 - Addresses

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

TSS/CD/ (29Dec '59)



INVOICE

For Services

\$4.160.00

B

#### CERTIFICATIONS

(1) It is hereby certified that this is Invoice No. I applying to Subproject 105 of MKULTRA, that performance is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSD/CB, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSD/Chemical Branch

Dates

(2) It is hereby certified that this invoice applies to MKULTRA Subproject 105, 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:

4

ARC.

25 April 1960

MEMOR	ANDUM	FOR.	CHIEF	FINANCE	DIVISION

VIA

: TSD/Budget Officer

SUBJECT

:- MKULTRA, Subproject 105, Invoice #1
Allotment 0525-1009-4702

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

Payment should be made as follows:

Cashier's check in the amount of \$4,000,00 drawn on payable to

Cashler's check in the amount of \$160.00, drawn on payable to

- 2. Please forward the checks to Chlof, TSD/Chemical Branch, through TSD/Budget Officer, no later than 9 May 1960.
- This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

Chief
TSD/Chomical Branch

Attachments:

Distribution:
Orig & 2 - Addressee

1 - TSD/FASS

2 - TSD/CB

TSD/CB/

D.

6 May 1960

Dear

Please give these the same treatment as the others,

Thank you,

3.105-11

6 May 1960

3

Gentlemen:

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

Official Check G41068 drawn on for \$4,000.00 dated May 2, 1960.

Cashlaria Check No. A241099 drawn on for \$160.00 dated May 2,

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

Yours truly,

25 April 1960

MEMORANDUM FOR: CHIEF, FINANCE DIVISION

VIA

1 TSD/Budget Officer

SUBJECT

MKULTRA, Subproject 105, Invoice #1
Allotment 0925-1009-4902

Invoice No. 1 covering the above subproject is attached.

Payment should be made as follows:

Cashier's check in the amount of \$4,000,00 drawn on

Cashler's check in the amount of 1160.00, drawn on payable to

2. Please forward the checks to Chief, TSD/Chemical Branch, through TSD/Budget Officer, no later than 9 May 1960.

 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.

Distribution

Prig & 2 - Addressee

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TSD/CB/

CHARGE TO WELL CHEET No.

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#### 29 December 1959

MEMORANDUM FOR: COMPTROLLER

**ATTENTION** 

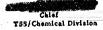
: Finance Division

SUBJECT

: MKULTRA, Subproject 103

Under the authority granted in the memorandum dated

13 April 1953 from the DCI to the DD/A, and the extension of
title authority in subsequent memorands, Subproject 105 has
been approved and \$4, 160.00 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.



APPROVED FOR OBLIGATION OF FUNDS:

ACE AVAPLACES

Original signal by

ONGANON THAT FUNDS ARE AVAILABLE ON AND THE STATE OF AND THE STATE OF AN AND THE STATE

#### Research Director

Date: 207A

Distribution: Orig & 2 - Addresses

1 - TSS/OC

TSS/FASB

TSS/CD/ (29Dec '59)



Object Class

No.	 _

Cost Account \_ 25.25. 1827- 440.2

Date	Remarks and References	Obligations Incurred	Obligations Liquidated	Unliquidated Balance
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28 APR	Just 1		\$160.00	
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24 May 1961

MEMORANISM FOR: COMPTROLLER

ATTENTION : Finance Division

SUBJECT : 1 MOULTRA. Subpro

MOULTRA, Subproject 105 Additional Authorization #2

Under the authority granted in the memorandum dated

13 April 1953 from the DOI to the DD/A, and the extension of
this authority in subsequent memoranda, Subproject 105 has
been approved and \$4,160.00 of the over-all MOULTRA project
funds has been obligated to cover the subproject expenses. This
obligation of funds should be charged to Alloteant 1125-1330-3302.

Chief TSD/Research Brench

APPROVED FOR OBLIGATION OF FUNDS:



Research Director	
Date:	
Distribution:	
Original & 2 - Addresses	
1 - TSD/FASS 2 - TSD/RB	
2 - TSD/RB	



.,



105-17

24 May 1961

MEMORANDUM FOR: The Record

SUBJECT

- : MKULTRA, Subproject 105, Renewal
- 1. The purpose of subproject 105 is to support investigations at the on the determinants of virulence in Staphylococci. This study is an important fundamental investigation which can lead to an increased understanding of the process of pathogenesis.
- 2. Dr. will be the principal investigator.
- 3. The cost of this program for the second year is \$4,000.00. To
  this sum must be added \$160.00 representing a four per cent service charge
  to the
  waking the total amount for one B
  year \$4,160.00.

  year \$4,160.00.

  year \$4,160.00.
- 4. Total cost of the project for a period of one year will not exceed
  \$4.160.00. Charges should be made against Allotment No. 1125-1390-3902.
- 5. The 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. Title to any permanent equipment purchased by funds granted
  the University shall be retained by them in lieu of higher overhead rates.
- 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 investigator is valved.
- 9. Dr. is cleared through SDERST and is aware of the true C

A TSD/Ressearch Branch

APPROVED FOR O	BLIGATION	OF	FUNDS:
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APPROVED

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Chter

Research Director

TSD/Research Branch

Attachment:

Date:

Proposed budget and proposal

Distribution: Original only



#### RESEARCH PROPOSAL

This Department has had under investigation studies
on virulent and non-virulent Staphylococi. It is expected
that by investigation of viochemical properties and metabolic
functioning of the major genetic variants, indicators would be
identified to mark the virulent Staphylococci. The project,
therefore, has genetic, metabolic, and nutritional components.
The varieties of toxins produced by the various Staphylococci
as well as the intensity will be determined as sub-areas in this
study. It is expected that the eventual goal of this investigation
will be biochemical tests which will identify the organisms
of interest.

0 (05-17

#### PROPOSED BUDGET

Pay of personnel \$3,200.00

Travel 200.00

Supplies 600.00

Total \$4,000.00



7 July 1961

## MEMORANDUM FOR: Chief, Finance Division

VIA

: TSD/Budget Officer

SUBJECT

1 MKULTRA, Subproject 105, Invoice No. 2 Allotment 1125-1390-3902

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

Cashier's check in the amount of \$4,000,00 drawn on a payable to

Cashier's check in the amount of \$160,00 drawn on a payable to

- Please forward the checks to Chief, TSD/Research Branch, through TSD/Budget Officer, no later than 19 July 1961.
- This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

Chief TSD/Research Branca

Attachments: Invoice & Certifications

Orig & 2 - Addressee 1 - TSD/FASS

2 - TSD/RB

TSD/RB:

0 105-18

# INVOICE

For Services \$4,160,00 \$

#### CERTIFICATIONS

(1) It is hereby certified that this is Invoice \_ applying to sub-project No. \_ of MULIRA, that performence is satisfactory, that services are being accomplished in accordance with mutual agreements, that a detailed agenda of the payments and receipts is on file in TSD/RB, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSD/Research Branch

Date:\_

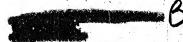
(2) It is hereby certified that this invoice applies to SubProject 1.55 or MXDIFFA which was duly approved, and that the project is ceing carried out in accordance with the memorandum of 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subgequent memoranda.

Research Director

Date:



17 August 1961



Gentlement

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

Treasurer's Check No. 090778 drawn on the

Cashign's Check No. A275779 drawn on for \$160.00 dated July 18, 1961.

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

Yours truly,

Attachments (2)

1

7 July 1961

## MEMORANDUM FOR: Chief, Finance Division

V1A

1 TSD/Budget Officer

SUBJECT

MKULTRA, Subproject 195, Invoice No. 2
Allotment 1125-1390-3902

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

Cashier's check in the amount of \$4,000,00 drawn on a payable to

Cashler's check in the amount of \$160,00 drawn sp. a.

- Please forward the checks to Chief, TSD/Research Branch, through TSD/Dudget Officer, no later than 19 July 1961.
- This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

Chief TSD/Research Branch

TSD/Research Branch
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24 May 1961

MEMORANDUM FOR: COMPTROLLER

: Finance Division ATTENTION :

MOULTRA, Subproject 105 SUBJECT

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 105 has been approved and \$4,160.00 of the over-all MOULTRA project funds has been obligated to cover the subproject expenses. This obligation of funds should be charged to Allotment 1125-1390-3902.

TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS:

CERTIFY THAT FUNDS ARE AVAILABLE.

AUTHORIZING OFFICER Research Director

30 156h Date:

Distribution: Original & 2/- Addressee

1 - TSD/FASS 2 - TSD/RB



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(When Filled In)

No. \_\_\_\_\_\_3377

Cost Account \_ 1125-1390 - 3902

Object Class

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



### SCHEDULE OF GRANT PAYMENTS

August 8, 1960

Dr.		July 1960 to June 1961
Paid	July 5, 1960	1,000.00
Due	October 1, 1960	1,000.00
Due	January 1, 1961	1,000.00
Due	April 1, 1961	1,000.00