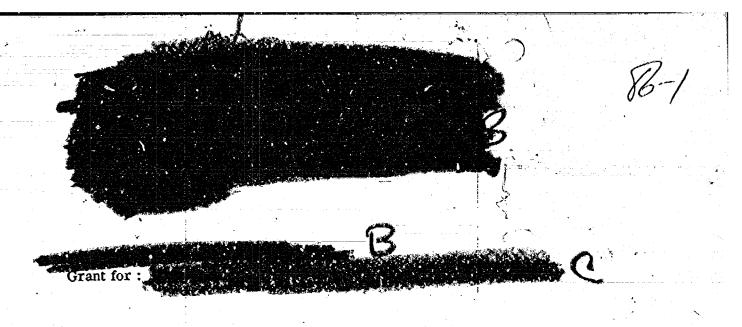


THE BLACK VAULT

This document was obtained from The Black Vault, an online database of declassified government documents. This particular record is housed in the MKULTRA/Mind Control Collection, a compilation of more than 20,000 pages declassified by the Central Intelligence Agency (CIA). The entire collection is free to download and online at:

http://mkultra.theblackvault.com



Financial Statement
June 30, 1958 to July 1, 1959

Funds received

43,052.00

Expenditures:

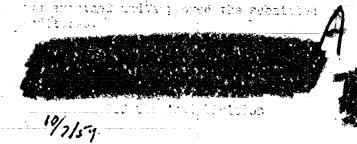
Wages & salaries	18,864.68
Equipment	
Supplies	
Subjects, testing	800.00
Overhead	2,839.38
•	
Apparatus (#3 units)	19,990.00

Total expenditures:

43,110.72

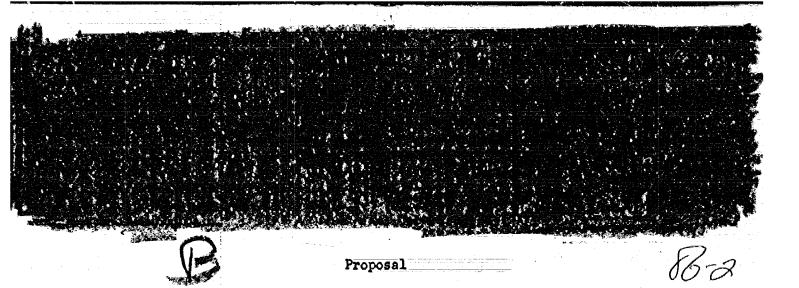
Balance July 1, 1959 (Deficit)

\$ 58.72)



Accountant

July 2, 1959



Care

PHYSIOLOGICAL RESPONSE RECORDER

Prepared for:

August 15, 1958

Prepared by:



Scope: This proposal covers the design, development and fabrication of three direct writing three channel recorders displaying respectively:

- 1. pressure changes induced in a pneumatic cuff wrapped around the upper arm of a primate.
- 2. chest expansion movements detected by a rugged transducer strapped around the chest with a slip-proof buckle.
- 3. skin resistance changes detected by an electrode device furnished by the purchasor.

Specifications, General: The unit will be portable, weighing approximately 30 lbs., and will be housed in a handsome fibreglass unbreakable carrying case providing storage for accessories. Ball point pens will be used. Cverall dimensions of case will be approximately 9 x 14 x 15 inches. Power required will be 115 volts 60 cycles. Quality of materials and workmanship will be in accordance with best practices.

Specifications, Detail:

Chart Paper: 3 separate grids will be used on a single roll of paper.

Identifying nomenclature will appear upon each grid.

Each grid will be a minimum of 2 inches wide. 100 rolls will be supplied.

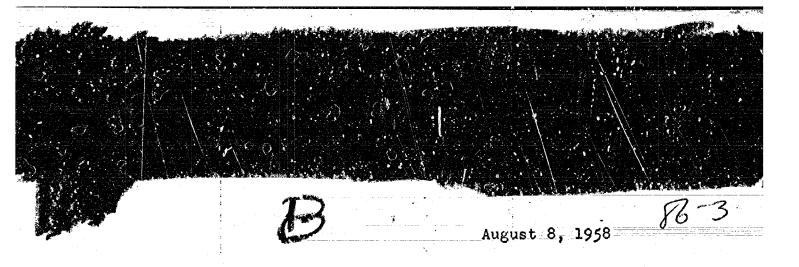
Chart Speed: Fixed, 6 inches per minute.

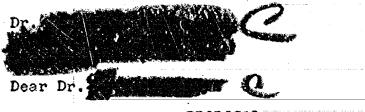
Controls: Adequate controls and calibration means will be provided in accordance with good engineering design.

Operating Instructions; Maintenance and operating instructions will be provided.

Construction: Chassis will be readily removable and accessible. Front panel will have louvered air vents and will be held in place by magnetic fasteners.

Delivery: One single channel unit, complete with case and transducers, operating in accordance with the above specifications will be delivered within 33 days from the contract award. This first model will be returned to upon delivery of the first of three recorders within 45 days from the contract award. Delivery of the remaining two recorders will be effected within 90 days.





PROPOSAL

Three (3) Biological Response Recorders with 3 pen single chart drive and a speed of 6" per minute complete with pen motors, pen and chart paper rolls.

Total price....\$19,940.00

Terms: \$7,000.00 cash with order. Balance on acceptance of delivery of the 3 complete units. Terms less 1% with payment on delivery.

Delivery: One workable single channel instrument which will demonstrate and prove the principle of these units within 45 days after receipt of order. Complete order within 45 to 90 days after receipt of order.

Very truly yours,



Enc. CC to

10	L Ann. Dr				Vio	DATE OF		Verbal 9-16-58 9-16-58	8-4
ITE:A	CATALOG NO.	A see at least time to	COLAR AND	DESCRIPTION	*		QUANTITY	UNIT PRICE	EXTENSION
					· .	Q			
1	Special	Physio!	logical Respo	onse Recorder.	SEMBLY, For	iels	13 es.	Lot	\$ 50,00
,		only, \	ith leads on	nd connectors		7			,
	. *			•		,			
	*					į			
	- ;:				:				
			•		. • !*				·

PRICES SUBJECT TO CHANGE 30 days after date of this bid ; DATE September 22, 1958

SHIPMENTS WILL BE MADE ROB. Destination

SHIPPING CHARGES WILL BE COLLECT OR RESPAID. (PLEASE YOUR PREFERENCE ON YOUR ORDER.)

ORDER WILL BE SHIPPED TO VIA OUR Truck

SHIPMENT WILL BE MADE At time of delivery of Recorders

AFTER RECEIPT OF YOUR ORDER.

PLEASE STATE WHETHER TAXABLE OR NONTAXABLE

THANK YOU

1 July 1958



Gentlemen:

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

Check drawn on for \$42,052.00

Check drawn on for \$1,682.08.

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

Yours truly,

District Name

20 June 1958

Phase II Polygraph equipment

and procedure

by Dr.



Satisfactory

20 June 1959

Dr.

A

NO. 3661

8-2502-10 601

Sal 86

ALDEVIN

e - one method with 1884 - each made when there is the material	:	·		
DATE	remains and references	CHIGATIONS (Celtigations Liguidated	dalayudated Sokalae
20 JUN 20 1958	Lotte spoken	43 734 03	THE STATE OF THE S	43134.08
24 JUN 211958	Jane 1 1683.68	and the state of t	43134.01	
parties of military and published to the many charge of the parties of		ng Marin kan di Anger za ngang dipung di Anger panggang di Anger panggang di Anger panggang di Anger panggang Anger panggang di Anger panggang di Ang		
MELINETE SETTION OF THE SET OF THE SET				
	:			78
			Property of the Control of the Contr	*
4 Bis Sallingury view later to the confirment and programme view later.	and the second section of the section of t	and the second s	Andrews of the Control of the Contro	g mag dig pelitikan menggangan peliti peliti peliti kadan pelitikan pelitikan permanan permahan pelitikan meng Pelitikan
There is in the control of the contr	and a final state of the state	A CONTRACTOR OF THE PARTY OF TH	The second section of the second section of the second section of the second section of the second section sec	Americanistics of a manufacture of emile many found for the confidence of the confid
of the Charlester Charlester, the object of the second of	and the second of the second		The second secon	and the second s
egyptical and entitle and enti	And the second s		e en	and an indicate the second and an indicated an indicated and an indicated an indicated and an indicated and an indicated and an indicated an indicated and an indicated an indicated and an indicated and an indicated and an indicated an indicated and an indicated an indicated and an indicated and an indicated and an indicated an indicated and an indicated and an indicated and an indicated an indicated and an indicated an indicated and an indicated and an indicated and an indicate
And the distribution in the second se	e and the second	a Pala kundan kandi isipi afkantinin menin quan a ninginangan sancamata i	Control of the Contro	and the control of th
gain trait (traitin) shallagan ig traitinn an shilliann 144 ann	Richards (1) page 2 page (1) p	en er gagens av varu var ungsturen et egysconerpun u., u, pen verterber	त्रे त्रीत्राम् कृत्येश्वर्यक्षेत्रात्रीतः क्षाः व्याप्त्रात्र्यक्षेत्रक्षेत्रक्षेत्रक्षेत्रक्षेत्रक्षेत्रक्ष	under under den Stade der der der und gesein dem dem vertreiten der
The details of William process and a process also resembles with	Angelinangan ang ang ang ang ang ang ang ang a		angun yang pengangan pengangan pengangan pengangan pengangan pengangan pengangan pengangan pengangan pengangan T	ermann magaging crimatiquates discripting material filtracional distribution conservation as age.
الله خاوج وی پیرا شعبی یک سیانه میبواند طاق ۱۳۵۰ در سوتی د حامل کند ۱۰ روز می	туру жана компасы түрүнүн кака башкастан ашымды дараарын төмдөү күнүнүн көкөөтүш төмдүк «		ang anamanan antinggi samuun erasi angus girbaa yan salaye girbaa yan salaye girbaa yan birbab. K	на размення в примене и за при в на применения применения в на применения в на применения в на применения в на
AL ALMER MANAGEMENT (PROPERTIES MANAGEMENT) NO	ina dia diagnasiana mpinggap ngurind di dinapa danama, pilantan mulai anti-danama, bi : : :	A was to "the William the control of	у шоо кайдена сомот котко шо з чиш , с ище торий имен со ^д сото	n gaga, terminan kangangan perendakan deri di menerah meninkan dan dan dengan kangan kangan kangan kangan kang
الله الله الله الله الله الله الله الله	and an area of the second of t	Park Spranger and State Spranger, which will also an analyzing Committee of the Committee o	artina ang m _{art} an sakalatan kaon salan sang nga pagagaganga san kaon kao n	und vollande und der Geben der Vertreite der Vertreite der Vertreite der Vertreite der Vertreite der Vertreite
PP - Willes and The see wederapided of upper tipes with an extension of the company.	unggapanggan memilih kenggapangan in distrik dibintigan papta and (dibantum). Palayah dibintina para-da m 	ర్మామలు జరించికి గా హిత్రు లేకు సాధామ్ముల తో ది , శ్రశిల్లోకి కొరితింది.	ne dan mandahananakan da siranga nembana	and programme and the forest management of the contract of the
 Allertholight apply to table, the latter appropriate on 	a kanaman dan aran 17 ar manaman biran sebagain sebandan aran 1960-belah sebenah dan berasak dan Separah deba	V официализмов под ставля на при на стите под при на стите под при на стите под при на ставите под при на стите под при на с	og var startman des Stiffelin vol. varios gapris Pribata de Stiffelin (1995)	ndi i majana mari sa 1849 ya Pililikwa wa Lifetia ka disetimban padampiliki Mililia (Mililia di Kasa) a .
ा है कि में हमें जिस हैं हैं। वहां क्षित्र हम हमार हमें लेक्ष्म हमार हैं लेक्ष्म हैं। हमार हमार है	n grand de come de magnetic de <u>de des de </u>	లో ప్రావా ం చేసినంది. పెరి ^ఇ లుకో ^{ని క} ేస్తు ప్రాలక్ష్ము చే ^ద ేశాను తరిగాను శ్రీ గాగా శ్రీ ఇం	्रे पर प्राप्तक क्षा प्राप्त प्राप्तक व्याप्तक व्याप्तक व्याप्तक व्याप्तक व्याप्तक व्याप्तक व्याप्तक व्याप्तक व	कुर्वात्मातीक (विभागितामात्रामात्रामात्रामात्रामात्रामात्रामात्रामा अर्था अर्था स्थान स्थान राजनित्री का राजनित्री भीत्रामा

17 Ame 1958

MINORANIAM FOR COMPTROLLER

ATTENTION : Pinance Division

Subject

1 MOTITRA, Subproject 86

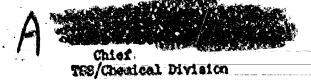
Under the suthority granted in the memorandum dated

13 April 1953 from the DCI to the DD/A, and the extension of

this authority in subsequent memorands, Subproject 86 has been
approved and \$43,734.08 of the over-all MULTEA project funds

bas been oblighted to cover the subproject's expenses. This

oblightion of funds should be charged to Allotment 8-2502-10-001.



APPROVED FOR OBLICATION OF FUNDS:



CERTIFY THAT FUNDS ARE AVAILABLES
OBLIGATION REFERENCE NO.

O ALLOTMENT No.

AUTHORIZING OFFICER

Research Mirector

Dates

20 相比 10 Se

Distribution

Orig & 2 - Addressoe

1 - TSS/CC

V1 - TSS/FASB

1 - TSS

2 - 198/01

· 65

MEMORARDIM FOR: CHIEF, FINANCE DIVISION

8-9

20 June 1958

AIV	: TSS/Budget Officer
SUBJECT	Allotment 8-2502-10-001
attach	1. Invoice No. 1 covering the above subproject is d. Payment should be made as follows:
	Cashier's check in the amount of \$42,052.00, draym on a bank, payable to
	Cashier's check in the amount of \$1,632.08, drawn on a second bank, payable to 2. Please forward the checks to Chief, Tes/Cienical
	on, through TSS/Budget Officer, no later than Monday, 1958.
pated	3. This invoice represents the total amount currently ized under Subproject 86. However, since it is anticiable that additional funds will be obligated for this project, les should not be closed.
CHECK RECEIVEN 9 /s	
the first the contraction of the	Chief T88/Chemical Division
Attach Invo	nente: Ice and Certifications person of the AMOUNT OF 626
-	bution: & 2 - Addressee
Dr 888	CC2661 2562-10-601:17.2 43,734.83
Cr Coch	43,734.08
	75 July 5 3

INVOICE

For services



CERTIFICATIONS

(1) It is hereby certified that this is invoice No. 1 applying to Subproject 86 of MAULTRA, 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/UD, that this bill is just and correct and that payment thereof has not yet been made.

Chief. TSS/Chemical Division

Dates

(2) It is hereby certified that this invoice applies to Subpreject 86 of MEDITRA which was fully 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

Dates

DRAFT 17 June 1958

MEMORANDUM FOR: THE RECORD

SUBJECT

MKULTRA Subproject 86

1. The purpose of Subproject 86 is to provide funds

to the Department of Medicine, Neurology Division,

School of Medicin

to

support Phase II of the research program on polygraph equipment and procedures undertaken by TSS/CD for the Office of Security.

2. The first phase of this program involved the design
of a miniature recording unit applicable to the sensing units
now in use by Office of Security and which produces a record
identical with that now produced by the machine.
The present phase will entail building two of the machines
and subjecting them to the necessary biological and physical evaluation required to bring them to the prototype stage. At the sems
time, personnel of the project will continue as during Phase I to
perform feasibility and background work aimed at Phase III of the
program. Phase III is the final part of the program and envisions
the production of an which will also incorprate
more reliable estimates of the stress reaction in human beings if
any such parameters can be found.



3. Dr. Associate Clinical Professor

of Medicine (Neurology) will monitor and direct and actively

participate in this project as principal investigator within

the School of Medicine,

4. The cost of this program for a period of one year is estimated at \$42,052.00. To this sum must be added \$1,682.08 representing a four percent service charge to the haking the total amount \$43,734.08. The

Foundation will function as cutout and cover for this grant. The cover title of the project is

research grant from the

- 5. The total cost of the project for a period of one year will not exceed \$43,734.08. Charges should be made against Allotment 8-2502-10-001.
- 6. 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.
- 7. Title to any permanent equipment purchased by funds granted to 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 valved.

10. Dr. 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.

Chief TSS/Chemical Division

APPROVED FOR OBLIGATION OF FUNDS:

Attachment:

Distribution:
Original only

Research Proposal







25 April 1958

Gentlemen:

We are desirous of receiving support in broading certain aspects of our present activities in the screening and evaluating of new tranquilizers within the Neurophysiological Laboratories. Department of Neurology University School of Medicine.

The scope of the research program is outlined in the attached research proposal. Our laboratories have been equipped, staffed and actively engaged in neurophysiological research for a considerable period of time. As a nucleus for the present proposal, the laboratory is already equipped with an 8 channel Grass Model polygraph, 3 EEGs, and a Meditron EMG.

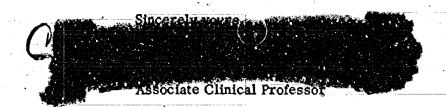
It is our proposal to conduct investigations along the following lines in order to produce a simple, rapid, and objective test for screening and evaluating new "tranquilizers".

- 1. Design, engineer and construct two (2) prototype polygraphs with their inherent advantages.
- 2. Evaluate and standardize the prototypes on random and select populations.
- 3. Compare the effacacy of the prototypes vs existing polygraphs in measuring physiological responses in man quantitatively.
- 4. Determine the degree of variation and the extent of accuracy between the _____ prototypes and our present screening techniques.

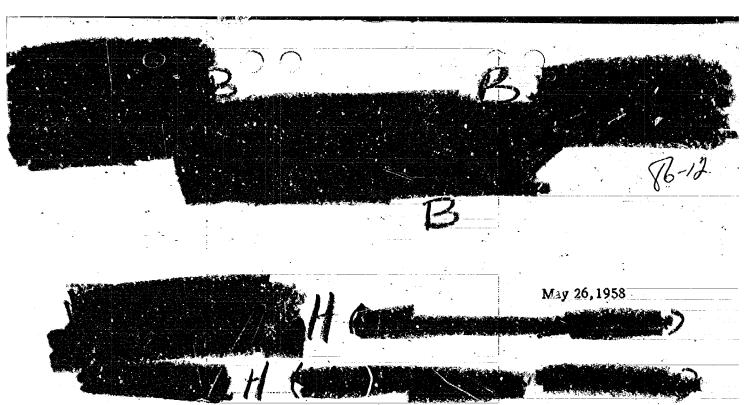
The following is the proposed yearly budget:

Neurophysiologist (MD) 1/2 time	<u></u>	8,000.00
Fellow in neurophysiology (PhD) fu	ill time	7,500.00
Technician, laboratory (1/2 time)		2,000.00
Technician, electronic (1/3 time)		1,700.00
Subjects, clinical testing		600.00
· · · · · · · · · · · · · · · · · · ·	•	
Total salaries and wages	·	19,800.00
University overhead 14%		2,352.00
-	Sub total	22,152.00
Equipment and apparatus (incl 2 pr	ototypes)	19, 200.00
Supplies and expendables		700.00
•		*
:	Total	42,052.00

In view of the fact that departmental requirements and budgetary allowances must be submitted by June 30, 1958 for the next academic year, an early reply by you will be greatly appreciated.







This is a request for a supplement of one thousand dollars (\$1,000) to be added to the grant assigned to

An additional supplement of the above amount would obtain three prototype polygraphs instead of two. In view of the fact that the construction of the three units total \$ 19,990.00, whereas the cost of two units is relatively the same; it is definitely to our advantage to have an additional unit made.

Your immediate attention to the above request will be extremely helpful in finalizing our terms with the manufacturer.







8 May 1957

MEMORANDUM FOR: THE RECORD

SUBJECT:

Discussion with Mr. ... of the Office of the General Counse

1. On 7 May 1957, I had a discussion with Mr.

of the General Counsel's Office about whether or not my acting as a consultant for the Agency after my resignation and receiving compensation for professional services rendered in that capacity would in any way be a violation of any of the so-called conflict-of-interests statutes. Mr. stated that he could not see how such activity on my part would be a violation of the conflict-of-interest statutes in any way.

TSS/Chemical Division/Br.II

Distribution:
Orig & 2 - TSS/CD

TSS/CD (8 May 1957)



MEMORANDUM FOR: THE RECORD

SUBJECT

Authorization To

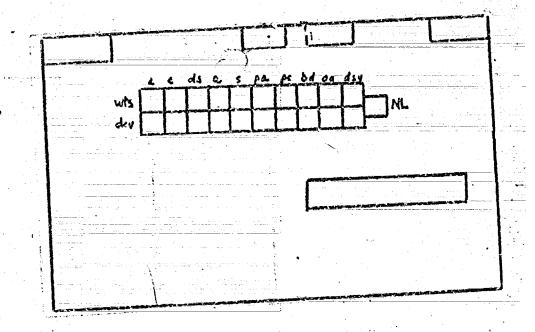


1. Reference request from 22 May 1958.

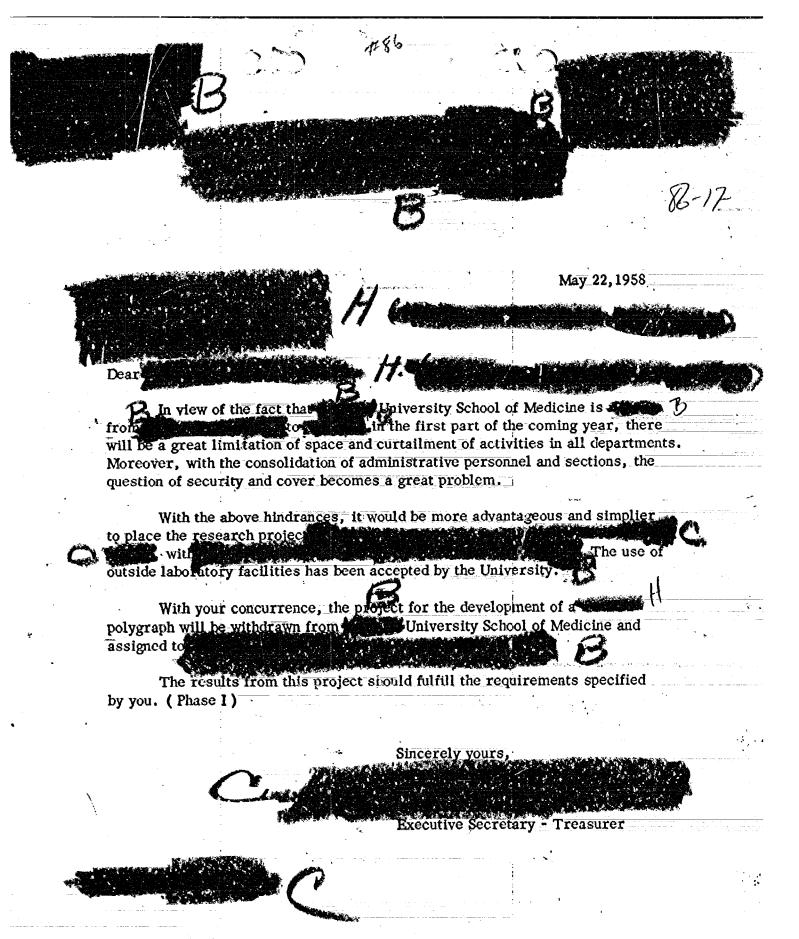


2. Authorization requested above referenced letter granted by telephone, 30 May 1958.





Convert - Prof of Sugary



86

86-18

A considerable amount of planning and designing has been expended by the undersigned on specific problems in Branch II, TSS/CD.

In order to maintain a continuity of direction and effort, it is therefore proposed that the services of the undersigned be utilized on a continuing basis in the following areas:

- A. Plan, monitor, and direct research and development of a polygraph.
- B. Design new and more refined physiological measurements for the detection of deception (e.g. infra-red irradiations, voice harmonics analysis).
- C. Consolidate all pertinent and available information for the preparation of an
- D. Monitor, direct and/or actively participate, from the standpoint of TSS/CD, in the research conducted within Subprojects No. 56 and No. 72.
- E. At the specific request of TSS/CD, Draw will evaluate the reliability and validity of proposed and completed research projects.
- F. Compile literature surveys on specific problems at the request of TSS/CD.
- G. Report on general scientific and medical meetings attended.
- H. Act as medical consultant, and whenever feasible and mutually agreeable, actively participate in TSS/CD operations and support functions.

Arrangements have been made for the appointment of the undersigned as an Assistant Clinical Professor of Medicine, Neurology Division, University School of Medicine,

E

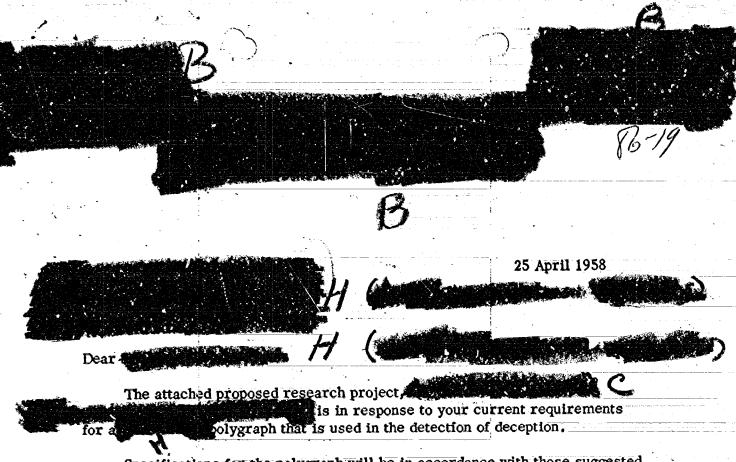


The following is an estimate of funds needed to cover the program outlined above for a period of one year:

Professional services	6,000.00
Secretarial services	2,500.00
Consultant fees	500.00
Supplies, expendable	600.00
3 ,	

\$9,600.00





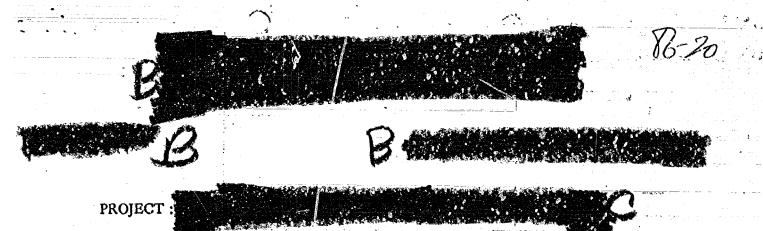
Specifications for the polygraph will be in accordance with those suggested in the attached memorandum entitled Polygraph.

Due to the necessity and standpoint of cover, the true purpose of the research proposal was submerged in academic and medical terminology and form.

I hope that this proposal will fulfill one of your many pressing requirements.

Sincerely yours,

Executive Secretary - Treasurer



INTRODUCTION:

Today, anxiety and stress are recognized as a concommitant part of every day living. Simply for the sake of discussion, and well recognizing the existing dispute over the meaning of anxiety, we can consider anxiety as essentially a human function because it is associated with the capacity of delayed action, choice of action, self reflection of motivation, and the capacity for projection of the self into the future. The concept of stress revolves around the arousal of anxiety. In general, anxiety can be aroused by any condition which threatens the integrity of the organism. Therefore, any stimulus may in principle arouse an anxiety response because of the particular meaning of threat it may have acquired for the particular individual involved. However, we can distinguish a class of stimuli which is more likely to produce a disturbance in most individuals; the term "stress" can be applied to this class of conditions.

Recently, there has appeared a group of drugs known as "tranquilizers" that have established their effacacy in the treatment of anxiety and stress problems. The term "tranquilizers" is an attempt to describe the peculiar type of sedative and hypnotic effects evoked by the administration of these drugs, which differ from those produced by known substances such as barbiturates with their heavy central inhibitory activity. Characteristically, these "tranquilizers" produce hypotension with bradycardia, hypothermia, respiratory inhibition, and a reduction of activity of the sympathetic regulating centers.

Chemical syntheses have produced such an alarming abundance of these new medications that accurate clinical appraisals become a physical impossibility from the sheer force of numbers. A simple, rapid, objective test that will demonstrate in man a pharmacological effect confirmatory of animal experiments and that will evaluate the comparative effectiveness and safety of the new drug when used in place of accepted medications is certainly indicated.

86-20

PROPOSAL:

Therefore, it is our proposal to conduct investigations along the following lines in order to produce a simple, rapid, and objective test for screening and evaluating new "tranquilizers":

- Design, engineer and construct two (2) prototype polygraphs with their inherent advantages.
- 2. Evaluate and standardize the prototypes on random and select populations.
- 3. Compare the efficacy of the prototypes vs existing polygraphs in measuring physiological responses in man quantitatively.
- 4. Determine the degree of variation and the extent of accuracy between the prototypes and our present screening techniques.

The above proposal is only an attempt to answer a pressing need. It must be kept in mind that there is still an existing necessity to furnish better sensitivity and reliability in quantitating physiological responses in man. Definitive steps can be taken to modify and refine the present methods of physiological measurements, e.g.

86-70

MINATURE POLYGRAPH

There exists within the Agency a continuing requirement from the Division of Security for improvements and refinements of the current instrumentation used in the detection of deception. In addition, new and better methods for measuring changes in emotional stress are sought.

Currently, the Polygraph is utilized by Security
The instrument is of such a nature that the sucessful use of it is almost negated by its inherent weaknesses and faults. Revisions and refinements of the present instrument are critically and urgently needed. The following proposal is an attempt to meet this urgent need and is based on the various criticisms and suggestions of the polygraph operators in the field. Therefore, this project is designed to answer some of the current operational problems.

PROPOSAL: It is therefore proposed to

- a the existing Polygraph by transistorizing all components and utilizing printed circuits for all wiring.
- b. Incorporate an new recording system of in place of the existing ink writers.
- c. Repackage the components into one or two units, effectively disguised as items of normal use, e.g. radios, traveling bags, etc.

The advantages to be gained by the new model are:

- a. for light weight and easy portability.
- b. Capable of withstanding use and abuse due to ruggedness and compactness.
- c. Ease of disguise and concealment
- d. No loss of evaluative prozedure due to identical tracings.
- e. Minimize wearing parts
- f. Simplification of function to minimize operator errors, carelessness, and instrument failure.

- g. Minimize the failure of expendable components to offset "chain reaction" failures.
- h. Ease of field repairs through cative screws, plug in assemblies and components, removeable panels and accessible check points.
- i. Easy assembly, adjustment, disassembly, maintenance and repair.
- j. Built in calibration with automatic standardization.
- k. Permanent operating instructions attached to the instrument.

The above proposal is only an attempt to answer a pressing need. It must be kept in mind that there is still an existing necessity to furnish better sensitivity and reliability in quantitating physiological responses in man.

Definitive steps can be taken to modify and refine the present methods of physiological measurements, e.g. utilizing a n lieu of the cumbersome pneumatic chest tube; and utilizing a n place of the sphygmograph.

Furthermore, many provacative suggestions have been raised that warrant investigation, e.c.

MEMORANDUM FOR: THE RECORD

SUBJECT:

Establishing and substantiating the "bona fides" of agent and/or staff personnel through techniques and methods other than interrogation.

1. BACKGROUND:

The life blood of intelligence is information. Collection of information is the most characteristic activity of the entire intelligence business. Accordingly, an intelligence organization a cannot exist until it does a broad and systematic job of collecting. But in this very task lie methodological problems which are so tough as to be almost insolvable and in their unsolved state are a perpetual source of inefficency.

A certain important fraction of the knowledge which intelligence must produce is collected through highly developed secret techniques. Herein begins perhaps the major methodological problem of the collection stage of the intelligence process.

It begins with the compartmentation of the clandestine services. This compartmentation is dictated by the established necessity of secrecy. An absolute minimum of people must know "anything" about the operation, and the greatest amount of caution and dissimulation must attend its every move. But unless the clandestine services watch sharply it can become its own worst enemy. For if it allows the mechanisms of security to cut off from some of the most significant lines of guidance, it destroys its own reason for existence.

With a high wall of impenetrable secrecy, it is constantly in danger of collecting the wrong information and not collecting the right. This danger is intensified by the very way the clandestine services operate. It involves highly complicated "tradecraft" techniques, clandestine agent recruitment and handling, nets and subnets, security and reliability of communications, and so on. Isolated by the security barrier, the perfecting of these techniques sometimes threatens to become an end in itself.

To concern ourselves with a specific problem, then, how can the "bona fides" of an agent or staff individual be established? Today, because of rapid changes and reassignments of our overseas case officers and the continuing operations of agents or long periods of time, the paramount question arises upon the exfiltration of the agent(s). Is the agent "bona fide" is he the same person we started with?

Worst yet, as we know has the existing net, especially those been penetrated and a penetration agent substituted for our original agent?

Any means by which we can increase to the maximum degree the element of identification will in turn enhance the acceptibility and reliability of the information obtained.

2. IMPLEMENTATION

In order to increase the maximum degree of identification, the following techniques and methods are suggested:

A. Polygraph

On a current basis, the polygraph is used extensively in attempts to establish "bona fides." The problems of utilizing the polygraph, especially in overseas areas, are numerous. In an effort to refine and improve the present polygraphic techniques, a three phase research program is proposed.

- 1. Minaturize and repackage the existing polygraphic equipment to gain the advantages of compactness, lightness, better concealment, simplicity of operation and maintenance, and ruggedness. (see attached proposal)
- 2. Modify and refine the present methods of physiological measurements. e.g. utilizing a small strain gage in lieu of the cumbersome pneumatic tube; utilizing a optical or impedence type plethysmograph in place of the sphygmograph.
- 3. Detecting and developing new and better measurements of emotional stress. e.g. infra-red, voice harmonics, myelograph

B. Ideal biographic file

A systematic and methodical compleat of data that will render maximum support in cases of questioned identity.

- 1. Dactylography or finger printing has been universally accepted and proven. However, in clandestine operations, it is at times impossible to obtain finger print specimens for future reference.
- 2. Anthropometry or Bertillon's system of identification is based on the descriptive data and exact physical measurements of the human body. However, the chief disadvantage lies in the inaccuracies of measurements produced by human error.

Ancillary to the above is the "protrait parle" a method for the scientific indexing and filing of the descriptions of certain facial characteristics of individuals.

86-21

3. Blood groupings. The fact of belonging to a definite blood group is a fixed character of every human being and can be altered neither by the lapse of time, transfusion, nor by intercurrent disease. From the presence of other factors in the blood, e.g. Rh and Rh sub types, the degree of accuracy in identification is greatly increased. It must be remembered, however, that blood groupings can only positively exclude, but cannot positively identify.

4. Group specific substances in the organs, body fluids and saliva. The principles involved are essentially those pertaining to the blood groups.

Mendelian Law of inheritance and derivation of offspring holds true for group specific substances (para 3 and 4 above) On this basis then, screening and identification of displaced persons, immigrants and line crossers claiming familial relationships and direct linage can be greatly expedited.

C. Artificial means of establishing positive identification!

- 1. Radio-isotopes, with predetermined half lives, can be selectively implanted and/or injected.
- 2. Radiologically opaque foreign bodies selectively implanted and/or injected into predetermined sites in the human body.
- 3. Specific circulating antibodies artificially produced by selective antigen sensitization that are alien to the habitat in question.

3. CONCLUSION

It appears that with the development of more specialized and refined methods and techniques of identification, the substantiation and establishment of "bona fides" can be greatly improved. If properly utilized, these methods and techniques represent a tremendous asset to the Intelligence Community as a whole. Keeping in mind the considerations of priority, time, financial support and availability of qualified personnel, a definitive program of research should be implemented.



...X Net constitution of the constitution of t

wasi baraya 16...

17 June 1958 19 Annual Control of the Control of th

MOTICE: Checks. before mailing Chicks.