subjects various from themsty to seventy years and there is a rade vertation of intelligence levels and social backgrounds.

Day and a resign

The following ran are suggested for the research tests:

experience in exemining criminals; has written extensively on paychopathic sexual deviations; is an authority on poly-

graph and interrogation rethods.

for ecre thirty years; a psychiatrist who has spent his life in the treatment of the criminal incane and reintains the only institution for the care — C and treatment for the criminal-sexual psychopath.

Permanaled to: Miles and by authority er: 157475
Cate: June 1977

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IN AMPOST; CL BY 18747 a posthiatriot who is on the-C ctaif of and raintains a private practice in the field of psychiatry. In lus had wice experience in - C dealing with crisicals going back some twenty-five years, including drug interrogation. C-9 THC a physician for the past twenty-five years, has been has had extensive experionce dealing with all sorts of criminals and has ongaged in drug interregation. Desides his city position, he also maintains a private practice in the field of general medicine. has suggested one of the psychiatrists from - C his staff who is interested and has used drugs in the treatment of patients and has also used hypnosis with mental patients. The research assistants have not been selected as yet but might well include paychelogists or medies now attached to the state of the st be present secretary who will do all the nacescary stemographic work in addition to her present duties. DEFECT MATERIAL POSTER Airec terms of two center professional was each will be selected. 2 Can team working with the selected group of petions will use straight R Interrogation, hypnosis and hypnosis and hill and hypnosis and a

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Cota: Juno 1977 E2 122022; CL BY 187475

tetrahydroccumphinol acctate derivative. Another teen working on another group of evojects will use straight interrogation, LSU with interrogation and a tetral-phroceumatinol acctate derivative and interrogation. Later the third team with another group of subjects will use straight interrogation and a corbination of LSU and a tetrahydrocannabinol acctate

A mosting of all the rembers of the research project will be briefed on the drugs to be used and all of the pharmacological and medical knowledge gained so far in the use of these drugs.

Insplication groups of subjects for experimentation, the following objectives will be sought:

- Subjects will be selected the have desired allocations
 of various binds that can be checked or strongly assumed
 on the basis of previously established records.
- 2) As far as possible, the actual research can administering drugs will not be aware of the drug he is administering and placebes will be interspersed with drug administration.
- 3) Proceeding will be taken to neutralize age, intelligence, physical condition, social background and any other controllable factor in colecting groups. Administration of drugs will be done both openly and conreptitiously.
- 4) Cound recordings will be made of the interregation and written records will be obtained in odier cases.

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5) Due care will to exercised in equating methods of interrogation as far as this can be come. The results of interrogation with drugs and other techniques will be checked against endsting records and qualitative and quantitative reports will be evaluated. Accurate and uniform reports will be hept and reports will be submitted on the basis of interir progress and complete projects.

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30 January 1961

MEMORANDUM FOR THE RECORD

SUBJECT: Project MKULTRA, Subproject 42

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- 1. Subproject 42 is to be continued for the same purposes as when originally established: to support covert covert of and realistic field trials of certain research and development items of interest to TSD, and to maintain the physical facilities required for these trials.
- 2. In the past year a number of covert and realistic field triels have been successfully carried out. The results of these experiments have provided factual data essential to establishing protocols for a number of contemplated operations. A continuation of covert and realistic field trials are necessitated by the production of new materials in TSD programs, particularly in areas requiring detailed knowledge of the effectiveness and efficiency of delivery systems. Additional trials are also necessitated by the need for better controlled "field-type" experiments.
- 3. The estimated cost of the project is \$5,000.00 for a period of six months. Charges should be made against Allotment 1125-1390-3902.
- 4. Accounting for funds and equipment under this subproject has been established on a detailed basis with the auditor and will continue as in the past.

5. is approved for TOP SECRET by the Agency and operates under cover for purposes of this subproject.

TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS:



Date: _____

Distribution: Original only.

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MEMORANDUM FOR THE RECORD

SUBJECT:

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Project MKULTRA, Subproject 42

1. Subproject 42 is being established to provide for the continued support of the facilities, and as such, is a continuation of Subproject 16g Under Subproject 42, it is intended that the facilities be moved from the new location, will continue to provide a means for the realistic testing of certain R and D items of interest to CD/TSS and APD/TSS. CD/TSS and APD/TSS.

2. Subproject 42 will be conducted by Mr. a seaman. Certain support activities will be provided by CD/TSS and APD/TSS.

3. The estimated cost for a period of one year is \$3,300.00, starting 1 March 1955.

T3S/Chemical Division

APPROVED FUR OBLIGATION

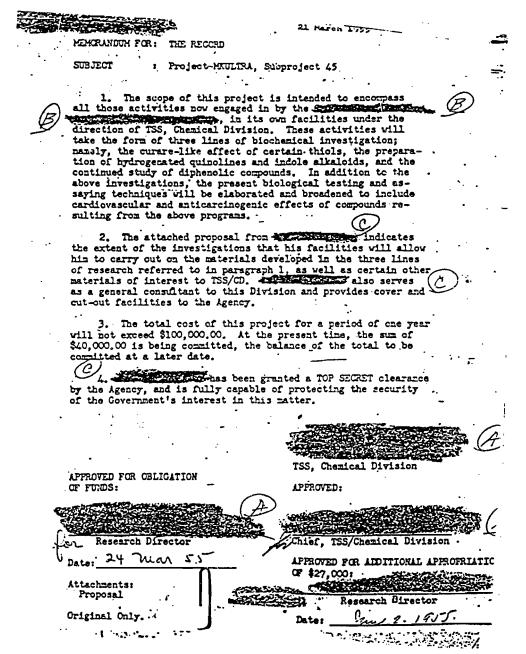
OF FUNDS:

Research Director

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Original Only.

APPROVED FOR ADDITIONAL OBLICATION OF FUNDS: (\$2,089.34)



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MENTRANDUM FOR: THE RECORD

SUBJECT:

Project MAULIRA, Subproject 45

The scope of this project is intended to encompass all activities now angaged in by the the sectivities take the form of three lines of biochemical investigation, namely, the Curare-like effect of certain thiols, the preparation of hydrogenated quinclines and indole alkaloids and a program of investigation of toxic cerebral states. This last investigation will include bio-assay and chemical analysis of various body fluids of animals in which cerebral toxenias have been produced. It is the aim of this program to endeavor to analysis of various body fluids of animals in which cerebral toxenias have been produced. It is the aim of this program to endeavor to understand the mechanism of such states as toxic delirium, uremic come, and cerebral toxicity from poinsoning. In order to continue the established "cover" activities of the animal and to make available a pool of subjects for testing purposes, the animal animal effects of compounds resulting from the above program will be evaluated.

2. The attached proposal from the lindicates the extent of the investigations that his facilities will allow him to carry out on the materials developed in the three lines of research referred to in paragraph one, as well as certain other materials of interest to TSS/CD. Paragraph consultant to this Division and provides cover and cut-out facilities to the Agency.

> 3. The total cost of this project for a period of one year will not exceed \$100,000. Charges should be made against illotment 6-2502-10-001.

4. The has been requested to submit a summary accounting or a copy of the manual audit report be made available for the sponsor's inspection. Also, it has been requested that any unexpended funds shall be returned to the Agency.

5. Title to any permanent equipment purchased by funds granted to the in lieu of higher overhead rates.

other than its activities as a cut-out

T; CL BY 187475

(6)
6. It was minutely agreed that documentation and accounting for travel expenses which are normally reinbursable by the stable shall conform with the accepted practices of the stable shall conform with the accepted practices of the stable shall conform with the accepted practices of the stable shall conform with the requirements of the Manorandum of Agreement.

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APPROVED FOR OBLIGHTION

OF FORMS:

APPROVED

Research Director

Date: 2 3 1 170 5.

Attachment: Propogal

Distribution: Original Only

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The research to be undertaken during the twelve month period for which financial support is requested will be devoted to the continued analysis of the neural and endocrine mechanism of stress and the chemical agents that influence it. The screening procedures are based largely upon a further analysis of phases of stress and the influences of this physiologic behavior complex upon both bady and skin temperatures as detailed in the accompanying report.

Chemical agents that have been found active and within a suitable toxicity range will be subjected to clinical screening on appropriate patients, the initial screening being carried out on advanced cancer patients. The amount of money devoted to chemical synthesis, however, has been further reduced. Chemical compounds available from biologic sources as well as those synthesised in the project will be screened, particularly those that are active in either raising or lowering body temperature.

As heretofore any agents which prove to be of interest

animal tumors and on concer patients. This cancer phase of the project will be considered a by-product of the major objective, which will be directed to the problem of stress.

WARNING NOTICE
SERVING INTERESTIGENCE
SOURCES AND METHODS INVOLVED

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MEMORANDUM FOR: THE RECORD

SUBJECT : Continuation of MKULTRA, Subproject No. 45

1. The scope of this subproject includes all those activities now engaged in by TSO R3 under the direction of TSS/CD with the exception of those cutout functions specifically mentioned in connection with other MKULTRA subprojects. In general, the research effort under this subproject will continue along the lines laid down in previous years. These involve the synthesis and pharmacological and clinical evaluation of compounds of those chemical families known to have application in the psychochemical and "K" fields. During the past year important progress, has been made in the area related to stressor compounds and the relationship of these materials to the physiological pathways through which both stress and the reaction to it are mediated in human beings. As is indicated in the attached proposal, the work of the past year has progressed to the point where more deficitive experiments on the stress reaction can be carried out. Primarily this was brought about by the characterization of several new materials which produce stress reaction in humans and the application of same new clinical methods of measuring the extent of the disturbance produced. During the next year proportionally more effort will be expeaded on the problem of the development of new

poence-aded to: Well-binim by cuthority of: 187475 to:::: Juno 1977 EZ IMPDET; CL BY 187475 "headk-out" types of agents since progress has been slower than is desirable in this direction and because a new approach to the problem has been worked out.

- 2. Land also serves as a general consultant to the Agency, provides services of a sensitive nature on an ad hoc basis, and serves as a cut-out in procurement problems.
- 3. The total cost of this project for a period of one year

 40,5-2-3

 will not exceed \$71,500.00. Charges should be made against

 Allotment 0525-1009-4902.
- has been requested to submit a summary accounting or a copy of the Fund's annual audit report for the sponsor's inspection. Also, it has been requested that any unexpended funds shall be returned to the Agency.

5. Title to any permanent equipment purchased by funds

6. It was mutually agreed that documentation and accounting for travel expenses which are normally reimbursable by shall conform with the accepted practices of the Fund.

Domstaded to: CONFIDENTIAL by authority of: 187475 date: June 1977

ER IMPDET; CL BY 187475

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MEMORANDUM FOR: THE RECORD

SUBJECT : Continuation of MEULTRA, Subproject No. 15

now engaged in by several project includes all those activities how engaged in by several project includes all those cutout—

under the direction of TED/RB with the exception of those cutout—

functions specifically mentioned in connection with other MEULIRA subprojects. In general, the research effort under this subproject will continue along the lines laid down in previous years. These involve the synthesis and pharmacological and clinical evaluation of compounds of those chemical families known to have application in the psychochemical and "E" fields. During the coming year it is planned to concentrate more directly on the more practical aspects of the "knockout" problem. Enough new potent substances have become available lately to make such a change in emphasis worthwhile. In connection with this change it should be noted that certain findings made in that facility will be pursued at the function of this subproject from time to time during the year due to increases of scope.

Agency, provides services of a sensitive nature on an ad hoc basis, and serves as a cutout in procurement problems.

District to: COMPLETAL

Selection of 19/15

Late June 19/7

Selection of 19/15

	3. The total cost of this project for a period of one year will
	not exceed \$40,000.00. Charges should be made against Allotment
	2125-1390-3902.
	accounting or a copy of the Pund's annual sudit report for the
	sponsor's inspection. Also, it has been requested that any unexpended
	funds shall be returned to the Agency.
	5. Title to any permanent equipment purchased by funds granted
C	shall be retained by
13	in lieu of higher overhead rates.

6. It was mutually agreed that documentation and accounting for travel expenses which are normally reimbursable by shall conform with the accepted practices of the Fund.

Chief TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS:

- Research Director

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Attachment: Proposal and Budget Distribution: Original only

DRAFT

24 January 1964

MEMORANDUM FOR : THE RECORD

SUBJECT

MKULTRA, Subproject 149

1. This subproject is being established for the purpose of supporting realistic tests of certain development items and delivery systems of interest to TSD/EB.

- 2. During the course of development it is sometimes found that certain very necessary experiments or tests are not suited to ordinary laboratory facilities. At the same time, it would be difficult if not impossible to conduct such tests as operational field tests. This project is designed to provide a capability and facilities to fill this intermediate requirement.
- 3. The activities under this subproject will be conducted by Mr. an individual in the import and comport business, in the Mr. When holds a TOP SECRET Treasury Department clearance and a SECRET Agency approval. He is completely witting of the aims and goals of his activities.
- 4. Mr. possesses unique facilities and personal abilities which makes him invaluable in this kind of testing operation. Mr. because of his peculiar talents and

capabilities as well as his excellent connections with all of the local law enforcement agencies, will provide a unique and essential capability. Because Mr. is no longer recident of the area, it is necessary that a suitable replacement be provided in order that a capability for continuance of our activities be maintained.

- 5. The estimated cost of the project is \$10,000.00 for a period of one year. Charges should be made against Allotment Number 4125-1390-3902. Reimbursement will be made for services rendered.
- 6. Accounting for funds advanced and any equipment under this subproject will be in accordance with accounting procedures established by the
- 7. A memorandum of agreement along lines established by previous audit recommendations in like situations will be executed.

Chief TSD/Biological Branch

Distribution: Original only SUBJECT: Request for Support of Research on the Mechanism of Brain Concussion

- This is a request for financial support for research on the mechanism of brain concussion for the period 1 Feb 1956 to 1 Feb 1957.
- 2. The resonance-cavitation theory upon which this research is to be based has been presented in the proposal submitted to the dated 27 March 1954.
 - The program as originally submitted estimated the duration of the program
 to be from three to five years requesting a total of \$72,109 for the initial
 year.
- 6 4. At the request of the area a reduced budget was submitted.
 - 5. amounting to \$24,925, was then awarded to the to 1 Feb 1956.
 - 6. The progress made to date under the above contract can be summarized as follows:

A. RESEARCH FACILITIES

The following research facilities have been established for the investigation of the very diverse aspects of the problems being studied:

Atotal of 2500 square feet of laboratory and office space equipped with much of the diversified machinery and apparatus necessary for research in this field.

B b. Blast Range
A blast range has been established at located approximately area is owned by the located area.

B c. Arrangments have been made with the the for use of their human cadavers. A test area has been assigned for this

WARNING NOTES

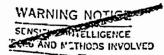
B. PERSONNEL

Both full-time technical personnel and part-time professional research personnel have been acquired and indoctrinated relative to their specific function.

C. TECHNICAL PROCRESS

Following is the technical progress made under the current contract:

- Specialized instrumentation and numerous testing techniques have been developed to obtain the desired dynamic data.
- b. Considerable data has now been obtained supporting the resonance-cavitation theory of brain concussion.
- c. Preliminary acceleration threshold data has been obtained for a fluid-filled glass simulated skull.
- d. Data has been obtained on the nature and the magnitude of pressure fluctuations within a glass simulated skull subject to either impact or sound waves propagated in air.
- Initial studies have been made on the simulated glass skull attempting to establish the cavitation patterns for various types of impact.
- The proposed method and program plan remain the same as stated in the original proposal, except for the temporary deletion of the immersion blast study.
- 8. The current level of activity on this project can be indicated by the most recent billing to the for the month of November, which amounted to \$4,034.61.
- In the interest of efficiency and economy it is requested that at least this level of activity be maintained for the coming year.



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- 10.1 Trotter, W. defines brain concussion as: "an essentially transient state due to head injury which is of instantanious onset, manifests widespread symptoms of purely paralytic kind, does not as such comprise any evidence of structural company injury and is always followed by appears for the cerebral injury, and is always followed by amnesia for the actual moment of the accident."
 - 10.2 The implication of the underlined portion of the above statement is that if a technique were devised to induce brain concussion without giving either advance warning or causing external physical trauma, the person upon recovery would be unable to recall what had happened to him. Under these conditions the same technique of producing the concussion could be re-used many times without disclosure of its nature.
 - 10.3 First, considering the possibilities of direct impact to the head or body, it should be possible from the findings of this research program to determine the following:
 - a. Optimum design of impacting devices.
 - b. Optimum points of impact on skull or body for the specific effects desired.
 - c. Intensity of the blow for the effect desired.
 - 10.4 In regard to the potential impacting devices, there are certain design requsites that are apparent at this time:
 - a. The impact should be delivered without
 - advance warning.

 b. The area of impact and force distribution

 the area of impact and force trauna does should be such that surface trauma does . not occur.
 - c. The intensity of the impacting force and its duration should be such as to obtain the desired effect.
 - d. The device should be as small and as silent as possible.
 - 10.5 The specific impacting devices might take the form of any of the following:
 - a. A pancake type black-jack giving a high peak impact force with a low unit surface pressure.
 - b. Concealed or camouflaged spring-loaded impacting devices that trigger upon contact with the head.

(Original and sole copy :agg)

- using a small shot filled sack for a projectile.
 - d. An explosive pad detonated in contact with the head or the body.
 - 10.6 Let us now consider the possibilities of exciting the resonance cavitation directly without impact. There is considerable evidence that resonance cavitation can be induced directly in the following ways:
 - a. A blast wave propagated in air. (Blast Concussion)
 - b. Physical excitation with a mechanical driver or horn, tuned to the resonant frequency of the head.
 - 10.7 A single blast pressure wave propagated in air must have considerable intensity in order to produce brain concussion, however, there is considerable evidence (Carver & Dinsley) that modification of the pressure wave can produce profound effects.
 - 10.8 Excitation of the resonance cavitation by using a tuned driver at this time appears to be well within the relm of possibility. The neurotic-like manifestations normally associated with blast concussion could possibly be induced by this method. Use of this method, however, would require actual physical contact with the drivers.
 - 10.9 Excitation of the resonance cavitation by tuned sound waves also appears to be a reasonable possibility. Concentration of the sound-field at some remote point could be effected with accoustical lenses and reflectors. The blast duration would be in the order of a tenth of a second. Masking of a noise of this duration should not be too difficult.
 - 11.0 It would possibly be advantageous to establish the effectivness of both of the above methods as a tool in brain-wash therapy. A full knowledge of the method and the resulting sequela should be of aid to any person forced to submit to such treatment.
 - 12.0 Possibly the most significant potential aspect of this study would be in the development of practical means of giving a person immunity, even though temporary, to brain concussion. One technique that appears to have potentialities involves the introduction of a small quantity of gas, approximately 1 cc, into the spinal cord. This gas bubble would then normally migrate to the ventricles located at the centrum of the brain. The ability of this bubble to expand under dynamic loading would be most effective in preventing resonance cavitation from occuring.

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MATERIAL FOR THE RECORD

MKSEARCH, OFTEN/CHICKWIT

MKSEARCH was the name given to the continuation of the MKULTRA program. Funding commenced in FY 1966, and ended in FY 1972. Its purpose was to develop, test, and evaluate capabilities in the covert use of biological, chemical, and radioactive material systems and techniques for producing predictable human behavioral and/or physiological changes in support of highly sensitive operational requirements.

OFTEN/CHICKWIT

In 1967 the Office of Research and Development (ORD) and the Edgewood Arsenal Research Laboratories undertook a program for doing research on the identification and characterization of drugs that could influence human behavior. Edgewood had the facilities for the full range of laboratory and clinical testing. A phased program was envisioned that would consist of acquisition of drugs and chemical compounds believed to have effects on the behavior of humans, and testing and evaluating these materials through laboratory procedures and toxicological studies. Compounds believed promising as a result of tests on animals were then to be evaluated clinically with human subjects at Edgewood. Substances of potential use would then be analyzed structurally as a basis for identifying and synthesizing possible new derivatives of greater utility.

The program was divided into two projects. Project OFTEN was to deal with testing the toxicological, transmisivity and behavioral effects of drugs in animals and, ultimately, humans. Project CHICKWIT was concerned with acquiring information on new drug developments in Europe and the Orient, and with acquiring

samples.

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There is a discrepancy between the testimony of DOD and CIA regarding the testing at Edgewood Arsenal in June 1973. While there is agreement that human testing occurred at that place and time, there is disagreement as to who was responsible for financing and sponsorship. (See hearings before the Subcommittee on Health and Scientific Research of the Senate Human Resources Committee, September 21, 1977.)

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THE DIRECTOR OF CENTRAL INTELLIGENCE

WASHINGTON, D. C. 20505

Office of Legislative Counsel

23 December 1977

Honorable Daniel K. Inouye, Chairman Select Committee on Intelligence United States Senate Washington, D.C. 20510

Dear Mr. Chairman:

During Admiral Turner's 3 August 1977 testimony before your Committee and the Senate Human Resources Subcommittee on Health and Scientific Research, you asked whether any Agency employees had been terminated because of their participation in MKULTRA Subproject 3. Admiral Turner indicated he did not believe any employee had been terminated, but would have Agency records searched on this question. Our records have been searched and the results confirm the Director's testimony that no such actions were taken.

Sincerely

George L. Cary Legislative Counsel

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QKHILLTOP DEFINITION

QKHILLTOP was a cryptonym assigned in 1954 to a project to study Chinese Communist brainwashing techniques and to develop interrogation techniques. Most of the early studies are believed to have been conducted by the Cornell University Medical School Human Ecology Study Programs. The effort was absorbed into the MKULTRA program and the QKHILLTOP cryptonym became obsolete. The Society for the investigation of Human Ecology, later the Human Ecology Fund, was an outgrowth of the QKHILLTOP.