

# THE BLACK VAULT

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11 January 1956

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: Finance Division

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MARIA Subproject 54

Under the authority granted in the Mexerandum dated 13 April 1953 from the DCI to the DD/2, and the extension of this authority in subsequent newer-ain, Subproject 54 has been approved, and 124,000.00 of the over-ail Project Mainfa funds has been obliquied to cover the subproject's expenses and should be charged to Allotment 6-2502-10-001.

SIDELY COTTLIND Chief TLS/Chemical Division

APROVIDENCE OF PARTS.

Research Director

Dates

Distribution: Ords & 2 - Addresses

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TSS/CD. (11 January 1956)

10 January 1956

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SIBJECT:

The Convergion of Project and fro

Cover to INVLINA

The first year's work on this program was financed through , for several reasons: First, the uspic progress at that time chiefly involved theoretical studies and the development of tools and applies which presented no socurity hazard and involved no operi-C - fic product other than undersified information. Second, ir. 🗨 🦫 was not elected, hid to be dealt with through a ext-out, and could not be informed of our time interest. Finally, provious the contreete en protective gear avée it entirely legical to proceed for a tile unler an unclassified contract as cover.

- 2. Then Mr. was elected and informed of our true interests in this remarch, the thole exert of the project charged and it becare accept that derelowers ed the braincard that the cocond year which usuld solo it impossible to eperate the progress coverely under the previous cover. Specifically, huran experiments of a type not easily judifishle on malical-Charapautic growns vould be involved, In addition, contain ligns of equipment ore libely to be developed C B which according to Dr. Con of could not be convertly hamiled unfor the process country. It was Dr. Conserval opinion B.C stat valent my ware willing to clair a considerable number of people B, B in the control of the project than we feel is accepted.  ${\cal B}$  would not be able to headle the project satisfactorily.
  - For the reasons given above and because this project in a gained toy will begin to become involved in the subjects of intervoyation coi como ampours of brata-tending, NOV/CO has decided that it chould be funded through project MUMBA solder than by loss seeme motheric.

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(10 Junuary 1956)



11: CL EY 187475

MENGRANDUM FOR: THE RECORD

SUBJECT:

MKULTRA Subproject 54

1. The purpose of Subproject 54 is to continue work on the mechanism of brain concussion. Mr. Thas recently completed a preliminary study under a contract.

- 2. The scope of the research program will be to pursue studies on the resonance-cavitation theory of brain concussion using a fluid filled glass simulated skull. In addition to the above, extensive cadaver impact experiments will be carried out for possible correlation with the above theory. For a more detailed explanation of the scope of the program see the attached proposal.
- 3. The cost of this program is estimated to be \$60,000 for a period of one year starting 1 February 1956. To this sum must be added \$2,400 representing a four percent service charge to the Therefore, the total cost will not exceed \$62,400. Charges should be made against Allotment 6-2502-10-001.
- B to submit to it a summary accounting of monies received from the
  - 5. Upon termination of the project or withdrawal of financial support by the sponsor, disposal of permanent equipment shall follow the schedule (Para. a-e) under "Proposed Budget", set forth in the attached proposal.
- 6. It was mutually agreed that documentation and accounting for travel expenses which are reimbursable by the shall conform with the accepted practices of that corporation.
  - 7. Mr. agreed to comply with the requirements of the Memorandum of Agreement.

APPROVED FOR OBLIGATION OF FUNDS:

TSS/Chemical Division APPRCVED:

Research Director

Chief, TSS/Chemical Division

Date:

Attachment: Proposal

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PROPOSAL

16 December 1955

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SENSITIVE INTELLIBERGE

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

- 1. 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.
  - 3. 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.
  - 4. At the request of the a 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. Blast Range
A blast range has been established at located approximately of the main laboratory. This area is owned by the located and is closed to the public. Three blast test-series have been run to date.

B c.

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

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specific work. Impact tests have been conducted on three cadavers to date. This work is being conducted under the direction of Dr.

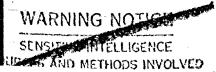
#### B. PERSONNEL

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

#### C. TECHNICAL PROGRESS

Following is the technical progress made under the current contract:

- a. 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.
- e. Initial studies have been made on the simulated glass skull attempting to establish the cavitation patterns for various types of impact.
- 7. 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.
- 9. In the interest of efficiency and economy it is requested that at least this level of activity be maintained for the coming year.



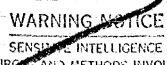
- 10.1 Trotter, W. defines brain concussion as: "an essentially transient state due to head injury which is of instantanious onset, manifests widespread symptoms of purely paralytic kind, does not as such comprise any evidence of structural cerebral injury, and is always followed by amnesia for the actual 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:

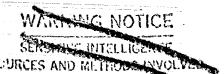
a. The impact should be delivered without advance warning.

- b. The area of impact and force distribution 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.



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- 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. Cne technique that appears to have potentialities involves the introduction of a small quantity of gas, approximately 1 cc, into the spinal ccrd. 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.



#### PROFOSED BUDGET

#### (1 Feb 1956 to 1 Feb 1957)

Direct Labor	\$23,594
Materials	4,000
Overhead (83.21% of \$23,594)*	19,633
Travel	800
Consultant Fees	1,000
Laboratory Equipment**	10,000
Contingencies	973
Total	\$60,000

- \* See attached letter for breakdown.
- \*\* In regard to the laboratory equipment the following stipulations are proposed:
  - a. The laboratory equipment will be purchased by the contractor at the start of the years program, however, the sponsor will remain legal owner of the equipment.
  - b. The book value of the above equipment will then be depreciated over a five year period by the sum of the digits method. The schedule of depreciation will then be as follows:

- c. If at any time the sponsor withdraws financial support, the contractor is then to be granted 1 year rent-free use of the equipment.
- d. At the end of this grace period the contractor has then the option of purchase from the sponsor of any or all items of equipment at the then depreciated value.
- e. At the end of the five years of life the individual items of equipment have no book value and automatically become the property of the contractor.

### PROPOSED SCHEDULE OF PAYMENT

1 Feb 1956	\$22,	500
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Total \$60,000

Director of Research

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December 16, 1955

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Attention: Gentlemen:

Pursuant to our telephone conversation of December 15, 1955, we have computed the estimated burden rate applicable to your research contracts for the fiscal year ending September 30, 1956.

The estimated overhead for the fiscal year ending September 30, 1956, based upon the corporation's experience for the period from June 1, 1955, to September 30, 1955, certain actual expenses for the month of November, 1955, and additional estimated expenses as furnished by Nr. is comprised as follows:

Utilities	<b>₩</b> 1# 1 , 11 •	-\$ 360	)
Shop Supplies and Expense		1,500	)
Reproduction Costs	•	300	)
Repairs and Maintenance		360	)
Depreciation, Research Equi	pment	3,990	3
Depreciation, Technical Lib			
Depreciation, Office Furnit		•	
and Fixtures		324	Į.
Officers' Salaries, Adminis	trative	1,958	3
Office Salaries, Secretaria	1	4,080	)
Vacation and Holiday Pay		1,278	5
Payroll Taxes		1,024	ļ.
Amortization of Leasehold		-	
Improvements		648	3
Postage, Stationery and			
Office Supplies		. 930	)
Telephone and Telegraph		1,110	5
Rent		3,100	)
Ingurance, General		420	)
Insurance, Workmans Compens	ation .	. 498	?
Legal and Accounting		1,800	)

WARNING NOTICE

December 10, 1935 - Page Two

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Taxes, Licenses and Permits		324
Dues and Subscriptions		43
Automobile Expense		600
Depreciation, Automotive		-
Equipment		336
Proposal Costs		240
Other General and	المسائنسي بيداد	
Administrative Expenses		800

Total Estimated Overhead

\$26,177

The total estimated direct labor-for the fiscal year ending September 30, 1956, is \$31,459, based upon the productive hours and the personnel during the month of November, 1955. The estimated burden rate is based upon the assumption that the present personnel will continue substantially unchanged throughout the year. Any increase or decrease in direct labor would affect the burden rate.

The estimated overall burden rate, which would be allocable to all direct labor costs, is 83.21 percent, computed by dividing the total estimated overhead, \$26,177, by the estimated direct labor, \$31,459.

The estimated costs for the fiscal year ending September 30, 1956, on government contracts being negotiated at this time, based on the premise that 75 percent of the research work will be on these contracts, are as follows:

Direct Labor (75%_of_\$31,459)	\$23,594
Materials	4,000
Burden (83.21% of \$23,594)	19,633
Costs applicable to government	
contracts only:	

Travel	\$ 800
Consultant Fees	1,000
Contingencies	973 2,773

Total Cost of Government Contracts

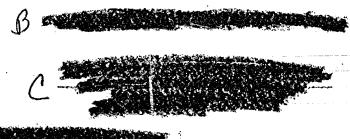
\$50,000

Very truly yours,

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