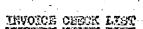


THE BLACK VAULT

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



MULARA Subproject

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Purpose: To study levels of motivation as related to certain personality

characteristics (MKULTRA III).

Initiated: Funds obligated 14 July 1961. (Second year of support for

work expected to take three years.)

Contractori

as a grantee of the

Cost: \$13,000.00 (Previous year's budget was \$14,000.00).

Status: Continuing on schedule.



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Sub 111

Per our ledger

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We have acely for period 1 time 60-31 May 62 acknowledges receipt of \$21,000

Passed to Grantee

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Jul 61 : 5,000,00

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More 62 3,340.00 July 62 3,167.50

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Feb. 4, 1963

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June 1, 1960	0 through May 31, 1962 Received	\$27,360.00
Expended	1961 Total	
Salaries	9,352.00_4,793.60 14,145.60	
Wages	3,841.60 5,964.00 9,805.60	
Maintenance	417.20 607.60 1,024.80	
Totals	13,610.80 11,365.00 24,974.00	
Overhead 2 ;	years <u>1,302.00</u>	
Total	l expended was the first that the same of	26,278.00
	Balance	\$ 82.00

Included 1222.05

This is a true statement of accounting as translated from as submitted to the Fund.

Prepared by

1 14,000.00

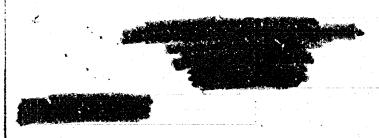
I have examined and approved the admitted expenditures.



TSS/Chemical Division

Date: Vale

A, B, c, F



March 26, 1962



The enclosed is for your file. We cannot expect an accounting until the end of his second grant year. Meanwhile, I am making plans to renew this grant out of our current funds.

Am looking forward to chatting with you about



Enclosure

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PROGRESS REPORT

1st June, 1961 - 31st May, 1962.

THE MEASUREMENT OF MOTIVATION

Grant from

B

During the past year one experiment has been finished on the main

part of the investigation, namely, the study of reminiscence as a measure

of drive. Using over 600 high drive and low drive subjects it was demonstrated that for the low drive groups reminiscence scores on the pursuit

rotor remain at a relatively low level irrespective of the length of pre
rest practice whereas for the high drive group reminiscence scores increased

in a linear fashion as a function of the logarithm of the length of the pre
rest practice period. Pre-rest periods of two minutes, 3 minutes, 6, 8,

12 and 15 minutes, have been used so far, and even with the fifteen-minute

period there is no sign of any approach to an asymptote. These results are

in line with prediction and show that reminiscence is indeed an excellent

measure of drive.

Results are contrary to prediction as for as performance is concerned, however, there being no performance differences at all between the high drive and the low drive groups. This finding is quite contrary to what would have been expected on any psychological theory, and accordingly during the second part of the past year the whole study was repeated on another group of approximately 800 high drive and low drive subjects. This study differed from the previous one in two respects: further pre-rest-practice periods were introduced, and the rest pause was lengthened from six minutes to ten minutes, to investigate the possibility that the dissipation of reactive inhibition during the rest pause might not have been complete.

Analysis of these results is not yet finished, but there seems to be no doubt that the data strongly support the conclusions derived from the original

study.

It was hypothesized that the failure to discover differences in performance between high and low drive groups on the pursuit rotor was a function of the task involved, and several other tasks have been employed during the past year. The most important of these are (1) eye-blink conditioning;

(2) self-paced multiple reaction time determinations; (3) easy and difficult clerical-type crossing out experiments of numbers and letters; (4) learning of paired associates on the memory drum. Some but not all of these experiments have been completed, but analysis is still in progress. It is proposed to add to these in the coming year further tests, including (5) GSR conditioning; (6) measures of perceptual thresholds; (7) suggestibility (body sway); and (8) mirror drawing. Arrangements have been made for these tests to be given, but approval is awaited for the continuation of the grant for a third year.

It is further planned to pursue certain theoretical points by comparing the performance of high drive and low drive groups on the pursuit
rotor under conditions of spaced practice; this is hoped to throw some light
on the puzzling problem on the failure of performance to differentiate the
two groups.

There has been some delay in delivery of the apparatus requested in last year's anticipated budget (electronic tape data recorder), and it has been necessary to continue most of the time with borrowed equipment. Preliminary data suggest that a very detailed analysis of performance during a continuous tapping task makes possible measurement of drive and motivation along quite novel lines. In this work we measure to the nearest 1000/sec.

the duration of each tap and also the duration of the interval between taps; when these data are plotted (particularly the intervals between taps) involuntary rest-pauses due to inhibition stand out very clearly and their frequency and distribution can be related to degree of drive. It is hoped that in the coming year a definitive study along these lines can be completed.

Pelow are given the publications so far resulting from the study
under this grant. In view of the large amount of material available the
writer has contracted with the to publish the main results
in book form under the title at the end of what
is hoped to be the third year of this grant. For this reason much of the
material that could have been published has not in fact appeared in article
form.

References

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111-2

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The measurement of motivation through the

BAC

Anticipated Budget

In the last year of the research the budget sho ld provide for
two Research Psychologicts at a sclary of and one technician at
a salary of making a total salary bill of To this should
be added 10% Institute overheads, equal to making a total of
There are a further for secretarial assistance, fares, test materials,
analysis of data and other components, bringing the total up to
This is slightly in excess of the amount anticipated originally but there
have been negotiated increases for salaries, et cetera, which could not
have been foreseen.

RECEIPT

Receipt is hereby acknowledged of the following:

Treasurer's Check No. 184886, dated August 15, 1961, drawn on in the amount of \$7, 272, 09, payable to the

RECEIPT

Receipt is hereby acknowledged of the following:

Treasurer's Check No. 267152, dated July 18, 1961, drawn on the in the amount of \$5,727.91, payable to the

Pate: 7-24-66

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No.

Cost Account 3/35 - 1390 - 3102

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HEMORANDUM FOR: THE COMPTROLLER

ATTENTION : Pinance Division

SUBJECT : MAILITHA, Subproject 111

Additional Authorization #3

Under the authority granted in the memorandum dated 13 April 1953

from the ICI to the DD/A, and the extension of this authority in sobsequent memoranda, Subproject 111 has been approved, and \$7,272.09

of the over-all Project MINITRA funds have been obligated to cover the subproject's expenses and abould be charged to cost center 2125-1390-3902.

Chief
TSD/Research Branch

APPROVED FOR OBLIGATION OF FUNDS:

Cultical signed by

CRITIFY THAT FUNDS ARE AVAILABLE CALICATION RELET. E N. 14/1320. 3902

Research Director

AUTHORIZING OFFICER

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Distribution:

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17 July 1961

MEMORANDUM FOR: Chief,	Finance	Division
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YIA

1 TSD/Budget Officer

SUBJECT

MKULTRA, Subproject 111, Invoice No. 3
Allotment No. 2125-1390-3902

I. Invoice No. 3 is attached covering the above subproject.

Payment should be made as follows:

Cashler's check in the amount of \$7, 272, 09 drawn on a bank, payable to the

- 2. The check should be forwarded to Chief, TSD/Research Branch, through TSD/Budget Officer, no later than 11 August 1961.
- 3. This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

Cite

TSD/Research Branch

Attached:

Invoice & Certifications

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AMOUNT OF SZ273.08

Distribution:

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17 July 1961

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	t payment thereof has not yet been made.	
	Chief, TSD/Research Branch	
Date:		
(0)	111	
of MGHARA which	by certified that this invoice applies to SubProject a was duly approved, and that the project is being carried	out
in accordance wi	ith the memorandum of 13 April 1953 from the DCI to the DD/	Α,
and the extension	on of this authority in subsequent memoranda.	
	Research Director	
	Research Director	
	Research Director	

TO: 5 rsp/00

This is a continuation of sub-project 111.

1. Purpose of Project: Studies

of the measurement of motivation

2. Project Mendton

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3 April 1961 //- 3

MEMORANDUM FOR: THE RECORD

SUBJECT

journals.

: Continuation of MKULTRA, Subproject 111

The purpose of Subproject 111 is to support the research

- in his studies of the measurement of motivation. This work has progressed in a highly satisfactory fashion for a period of one year. At least four research articles, stemming directly from the past year's grant support, have been submitted for publication in professional
- work has been directed toward resolving some unusually knotty problems in the field of human motivation. In addition, he is making a highly promising start towards relating important variables in the domains of learning and personality assessment to quantitative measures of motivation. Unquestionably, his work will, as it has in the past, stimulate additional research in the field.

progress report is attached.

- 3. Although studies have no immediate relevance for Agency needs, their results appear to be unusually promising for satisfying long-term requirements in assessment of human motivation and personality measurement via indirect means. In addition, this grant will continue to lend prestige to the as a worldwide funding organization.
- 4. Funding and monitoring of this project will be handled by the

 Accounting for funds





expended shall adapt to procedures established by the permanent equipment required for the project will become the property of n lieu of higher overhead charges.

- The estimated cost of this project for an additional year will be \$13,000.00. However, at the present time the project will only be extended for a period of approximately six months. The cost of this project for this period will not exceed \$5,727.91. Charges should be made against Allotment 1125-1390-3902. It is anticipated that the remainder of the funds for the project year will be made available from FY-162 money when available.
- 6. No cleared or witting persons are concerned with the conduct of this project.



APPROVED FOR OBLICATION OF FUN

Research Director	
Date:	h
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APPROVED FOR ADDITIONAL OBLIGATION CF FUNDS: (\$7,272.09 against	3
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Research Director Date: 14101 Di	tachment: Progress Repo stribution:

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PROGRESS REPORT

1st June, 1960 - 31st May, 1961

THE MEASURANGE OF MODIVATION

Grant from



The series of investigations carried out during the past year may be grouped in several distinct categories. The first of these categories is concerned with the follow-up of the original observation which caused me to approach the a grant, namely, experimental confirmation of the hypothesis that reminiscence scores on the pursuit rotor were monotonically related to drive within certain limits. In the original study pre-rest work periods of three and eight minutes had been used, and it had been found that under these conditions high drive and low drive groups were significantly differentiated. The data and the theory, taken together, suggested that with a two-minute-pre-rest work period, there would be no differentiation between low and high drive groups. At the upper end it seemed likely that a linear increase in reminiscence would occur as ... pre-rest practice increased from six to eight minutes, and accordingly in the first experiment carried out under the grant, high and low drive groups were tested with either two or six minutes of pre-rest work on the pursuit rotor. The findings bore out the prediction, no difference being observed for the two-minute groups, and a somewhat smaller difference for the six-minute groups than the eight-minute groups. A study is under way using still longer pre-rest work periods in order to discover the limit of growth of reactive inhibition and drive.



It will be remembered that the method for inducing differences in drive used by us consists essentially of either having the test included in a battery of selection tests for a much-coveted industrial apprenticeship (high drive) or else giving it to already accepted apprentices under low motivating instructions. This same situation was used for studying the efficacy of a perceptual test as a measure of motivation, using for the purpose of measurement the length of the rotating spiral after effect (2,3). Two separate studies were carried out for this purpose, and in addition to drive we studied the direction of rotation and the massing of practice. Both studies agreed that under conditions of high motivation, length of after effect was reduced.

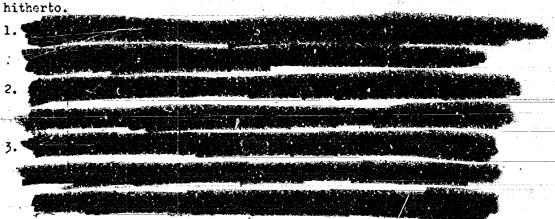
In another study, also making use of the same high and low drive groups, serial nonsense syllable learning at two-levels of difficulty was investigated. It was found that, as predicted, learning was more efficient under conditions of high drive than under conditions of low drive, but contrary to expectation, no interaction effects were found with difficulty level (4). Two preliminary studies were carried out in the hope that tests of persistence and pain tolerance would be useful for the objective measurement of drive. In the first of these studies very high correlations were found between tolerance for pain, using the thermo-stimulator, and personality (particularly extraversion). This correlation indeed was so high as to throw doubt on the usefulness of the test as a measure of drive independent of personality (5). In

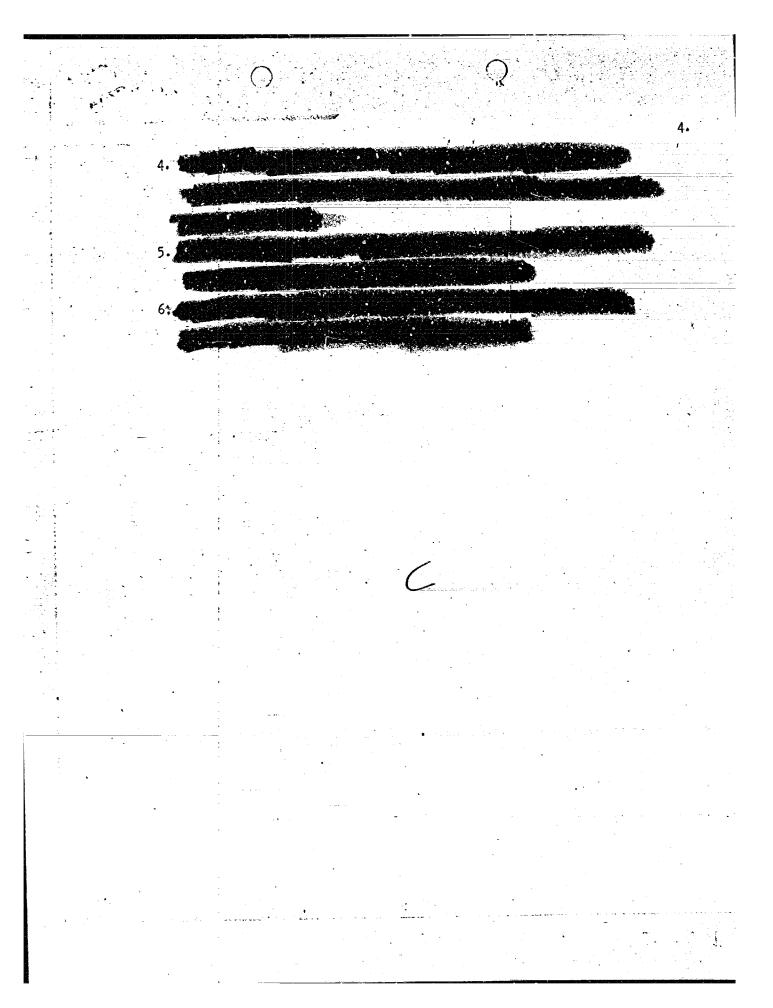
a study of persistence (dynamometer pressing at constant ratio of maximum pressure) this relationship of persistence and extraversion was again found (6).

Two studies have been completed but not yet finally analyzed; in
these an effort was made to induce drive in school children by either

praise or blame. The task used was pursuit rotor learning, and the
score used was a) erformance and b) reminiscence. Subjects were
selected on the basis of a specially constructed questionnaire, in such
a way that children, high or low on extraversion-introversion and
neuroticism were chosen and assigned to the various cells of an analysis
of variance design. The experiment was carried out in one school and
replicated in another. It was believed that the equivocal results of
reports in the literature using this method of manipulating drive were
due to the use of performance as an index of motivation rather than
reminiscence.

Below are listed the papers which have resulted from the work done







Dete: 11 July 1961

HEMOFANTUM FOR: THE COMPTROLLER

ATTENTION

: Pirance Division

SUBJECT

MULTRA, Subproject 111

Additional Authorization #3

Under the authority granted in the memorandum dated 13 April 1953
from the DCI to the OD/A, and the extension of this authority in salesequent memorania, Sobproject 111—has been approved, and \$7,272.09
of the over-all Project MUNTRA funds have been obligated to cover the
subproject's expenses and should be charged to cost center 2125-1300-3002.

Chisi TSD/Ressarch Branch

APPROVED FOR OBLIGATION OF MUNDS:

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Research Director

Date:

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	Date: 29 June 1961
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6 July 1961

MEMORANDUM FOR: Chief, Finance Divisi	MEMOR	ANDUM	FOR:	Chief.	Finance	Divisio
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VIA :

1_TSD/Budget Officer

SUBJECT

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

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

Cashier's check in the amount of \$5,727,91 drawn on a bank, payable to the

- Z. The check should be forwarded to Chief, TSD/Research Branch, through TSD/Budget Officer, no later than 17 July 1961.
- 3. This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project, the files be sould not be closed.

Chief TSD/Research Branch

Attachedi

Invoice & Certifications

Distribution:

Orig & 2 - Addressee

CHECK WILLIAM THE AMOUNT OF #5227.91





6 July 1961

	1 TSD/Budget C	
UBJECT		Subproject III, Invoice No. 2 5. 1125-1390-3902
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INVOICE

For Services

-\$5,727.91_



CERTIFICATIONS -

(1) It is hereby certified that this is Invoice 2 applying to sub-project No. 111 of NXULTRA, 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/RB, that this bill is just and correct and that payment thereof has not yet been made.

Chief, TSD/Research Branch

Dute 4

(2) It is hereby certified that this invoice applies to SubProject 111 of MKULTRA which was duly approved, and that the project is being carried out in accordance with the memorandum of 13 April 1953 from the DCI to the DD/A, and the extension of this authority in subsequent memoranda.

Research Director

Date:

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Chron

Date: 29 June 1961

HEMORANDAM FOR: THE COMPTROLLER

ATTENTION

: Finance Division__

Subject

MILITAA, Subproject III

Additional Mathorization #2

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 III has been approved, and \$5,727.91 of the over-all Project MILITRA funds have been obligated to cover the subproject's expanses and should be charged to cost center 1125-1390-3502.

TSD/Research Branch

APPROVED FOR CHLICATION

Research Directo:

Date:

Distribution:

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24 March 1960

MENORARIAM FOR: COMPTROLISM

MATERITION

Pinsoce Division

BUILT

: MULTRA, Subproject 111

there the authority greated in the Memorandum dated 13 April 1953 from the DCI to the DD/A and the extension of this authority in subsequent memorands, Subproject 111 has been approved and \$18,000.00 of the over-all Project MINITA funds have been obligated to cover the subproject's expenses and should be charged to Allotsent 0525-1009-1902.



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MENORARDUM FOR: CHIEF, PINANCE DIVISION

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1 TED/Budget Officer

SUBJECT

MULTRA, Subproject 111, Invoice No. 1 Allotment 0525-1009-5902

1. Invoice No. 1 is attached covering the above subproject. Payment should be made as fellows:

Cashier's check in the amount of \$14,000,00 drawn on a local bank, payable to the state.

- 2. Please forward the check to Chief, TSD/Chemical Branch through TSD/Budget Officer by Monday, 9 May 1960.
- 3. This is a final invoice. However, since it is anticipated that additional funds will be obligated for this project, the files should not be closed.

Chief TED/Chemical Branch

Attachment: Invoice & Certifications

Orig & 2 - Addressed

CERTIFY THAT FUNDS ARE AVAILABLE.

CRUCATION EXCEPTION TO 2007.

AUTHORIZING STRICES

AUTHORIZING STRICES

CHECK "HOW THE AMOUNT OF SHOP

3 May 60

17

RECEIPT Tressurer's Check No. 249965 in the amount of \$14,000.00,



For services :

\$14,000.00



CERTIFICATIONS

(1) It is hereby certified that this is Invoice No. 1 applying to Subproject No. 111 of MEULTRA, 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.

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NEMORALIAN FOR: CRIEF, PINANCE DIVISION

VIA

1 TSD/Budget Officer

SUBJECT

MOLIFA, Subproject 111, Invoice No. 1 Allotment 0525-1009-5902

1. Invoice No. 1 is attached covering the above subproject. Payment should be made as follows:

Cashier's check in the amplyt of \$15,000.00 draws on a local bank, payable to the

- 2. Place forward the check to Chief, TSD/Chemical Branch through TSD/Dudget Officer by Hoolky, 9 May 1960.
- 3. This is a final invoice. However, since it is enticipated that additional funds will be obligated for this project, the files should not be closed.

Attachment: Invoice & Certifications

Distribution: Orig & 2 - Addressed

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TSD/CB/ (25 April 1960)

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24 Karch 1960

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Sujet	1 MAULITA, Subproject 111	

Under the authority granted in the Masorandum do'ed 13 April 1953 from the DCI to the DD/A and the extension of this authority in subsequent memorands, Subproject 111 has been approved and \$10,000.00 of the oran-all Project MANATA funds have been obligated to cover the sub-project's expenses and abould be charged to Allotment 0525-1009-1902.



APPROVED FOR CREIGHTION OF FUNDS!

Research Firegtor	
Date:	——————————————————————————————————————
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DRAFT 24 March 1960

MEMORANDUM FOR: THE RECORD

SUBJECT

: MKULTRA, Subproject 111

of in his study of proposal is attached.

- 2. Although it is only indirectly indicated in the proposal much interest is in the non-cognitive aspects of personality theory and personality measurement which is in accord with TSD/CB's long term interest in indirect assessment.
- psychologists on the international scene today and a grant to him would, in fact, add to the prestige of the

 This project will also be in accordance with the plan of developing as a world-wide organization.
- the , in the regular manner. Accounting for the funds expended will be according to the procedures previously established by the Any permanent equipment required for the project will become the property of the Institute in lieu of higher overhead charges.

BC



5. The estimated cost of this project will be \$14,000.00 for a	+
period of one year. Charges should be made against Allotment 0525-	:::
1009-4902. It is noted that proposal and budget figures	
are for a period of three years but it is felt that approval should	- , • -
be limited to one year and then renewed if results are satisfactory.	
6. No cleared or witting persons are concerned with the conduct	
of this project.	

Chief TSD/Chemical Branch

APPROVED FOR OBLIGATION OF FUNDS:

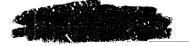


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Attachment:

Project Proposal

Distribution: Original only





The Measurement of Motivation.

Introduction. Psychologists have succeeded reasonably well in measuring shilities, learning, and even some personality traits; they have not made much progress with the measurement of motivation or drive. The inviting possibility of using the Hull-Tolman formulation of performance as a function of drive and habit for the measurement of drive has not given useful results with human subjects because of the difficulty of equating habit strength (and also differences in ability.) This general failure to subject drive or motivation to a proper quantitative analysis affects large areas in psychology, both on the theoretical and on the practical side, and a natitutes one of the most fundamental weeknesses of modern behaviour science. It also has obvious implications for other disciplines, such as psychiatry, psychoanalysis, and sociology. The research project proposed here is intended to investigate the possibility of subjecting the drive concept to experimental investigation, with the hope that a useful quantitative measure of motivation would emerge.

Theory. The proposed index of drive is closely related to the concept of reminiscence, and through it to that of reactive inhibition (Hull, 1943.) The most explicit form of the theory to be used has been put forward by Kimble (1949), and accordingly it will be referred to in this proposel as the Hull-Kimble theory. There is much support for the general theory, although certain parts of it are either of doubtful value, or

definitely contrary to fact have indicated certain possible improvements elsewhere to put it quite briefly, the theory maintains that during massed practice of any perceptual, notor or cognitive task reactive inhibition is being generated; this is denoted of as a kind of neural fatigue which counteracts performance, acts as a (negative) drive, and dissipates during rest. It grows up to the point where it equals in quantity the positive drive which is responsible for the fact that the organism performs at all; when this happens performance stops for a short time, and an involuntary rest period (I.R.P.) occurs. During this rest period inhibition dissipates, until it is sufficiently below the level of the positive drive for performance to begin again; it builds up again until another I.R.P. is produced, and so on ad infinitium.

If now a long rest pause (10 min. or so) is introduced into this cycle, all or nearly all of the reactive inhibition which has accumulated will dissirate, and performance will be much better after the rest pause than it had been before. This improvement is often referred to as "rominiscence." It will be seen from the little that has been said that under favourable direcumstances this reminiscence effect may be used as a measure of drive. Inhibition builds up until it equals drive; consequently there will be a monotonic relation between inhibition and drive. Reminiscence is an index of the apount of inhibition which has been accumulated and dissipated, and if there is a monotonic relation between inhibition and drive; then reminiscence will also be an index of drive. This proposition can be tested by postulating that groups at a high and low level of drive respectively should differ with respect to reminiscence, and some rather-inconclusive evidence

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has been given on this point by Kimble (1950) and Vasserman (1951.) (Their researches, while of considerable interest, suffered from the rather small differences in drive introduced by their experimental procedures.)

performed a rather more stringent test of the hypothesis

by postulating that not only should high and low-drive groups differ with

respect to reminiscence, but also that this difference should be much larger

after a long period of practice than after a short period. It follows

from the general theory that reminiscence will reach an asymptote when

the point has been resched where inhibition a drive; this point should be

reached earlier for the low drive group than for the high drive group.

Consequently, if reminiscence is measured at the point where the low drive

group has reached its asymptote, the high drive group will still be at a

point well below its asymptote; consequently the difference in reminiscence

between the two groups would continue to grow until the high drive group

also had reached its asymptote; at this point the difference in

reminiscence should stabilize. (See Fig. I.)

The experiment performed made use of the pursuit rotor, because from previous work we had much information on relevant parameters. Pre-rest performance contrasted J min. and 8 min. practice periods, as after 2 min. or so the low-drive group was predicted to have reached its asymptote; the high-drive group was assumed to have approached its asymptote after 6 min. or so. Drive was manipulated in the following way. The tested engineering apprentices, some of whom (high drive group) took the test as part of an entrance examination, not knowing that the scores on this test would not in fact be counted towards their entrance examination. The other subjects (low drive group) were tested after they be already been accepted and when the

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knew that their performance could in no way affect their acceptance or future rating. Under these conditions, there was no difference in the reminiscence access of the low drive groups after short and long practice respectively.

(R = .54 and .51 respectively.) There is, however, a very considerable difference for the high drive group for the two conditions (R = .80 and 1.50.)

It will also be noted that as predicted the high drive group access are higher on both occasions, but particularly on the latter. The positive outcome of the experiment, highly significant for all predicted differences, suggests strongly that reminiscence may with advantage to investigated as a quantitative measure of drive.

It is interesting to note that the pre-rest performance of the high- and low-drive groups was very similar, with a slight advantage for the high-drive group. This reinferces the writer's belief that under exdinary conditions of learning performance is a poor measure of drive; it also coints up another advantage of using reminiscence as a measure of drive, to wit its independence of level of performance. Thus differences in ability or habit strength become relatively unimportant, affecting as they do equally the pre-rest and the most-rest performance sources the difference between which determines reminiscence.

Research. The research proposed here constitutes in essence an extension and amplification of the research design described above. Differences in drive will be produced in the manner outlined above, by reference to real life goals of considerable strength; it is obvious from the literature that drives of this strength cannot be produced in the laboratory. It is also planned to work with smaller drive differences, such as can be produced by

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rewards and punishments (eigersttes and sweets; shocks.) In this way the linear dependence of reminiscence on drive could be investigated.

The main research tool will continue to be the pursuit rotor, although
some work will also be done with other perceptual and motor tasks (inverse
alphabet printing; apiral after-offect); this will serve to show that
conclusions are of general validity and not dependent on one particular type
of apparatus. It will, however, be necessary to construct a new type of
pursuit rotor for this work in view of the demonstration by Bahrick, Fitts
and Briggs (1957) that the typical on-off scores of pursuit-rotor performance,
sween when integrated over time, do not show a linear relation to learning.

A ocetinuous-scoring pursuit-rotor has been designed in our work-shop, and
sowersh copies of this would be built and used. (The essential feature of this
apparatus lies in the provision of several metal annuli around the central
target dise. These are concentric, and insulated from each other and from the
control dise; contact of the stylus with each annulus produces current inversely
preportional to the distance of the ring from the dise. It is possible to
integrate scores from the dise alone, or from dise and rings.)

Experimental conditions would emphasize (1) changes in length of pre-rest tries and (2) changes in length of rest pauses. The parameters chosen for the demonstration experiment quoted above are not likely to be optimal, and it would be one task of the experiment to provide information on this point.

The theoretical argument regarding length of practice period has already been mentioned above; that analyting to length of rest pause is essentially similar. Leveldies groups, having accumulated less inhibition, would dissipate that these of inhibition more quickly than high-drive groups, which would

be more advantageous for obtaining marked differences in reminiscence scores between high- and low-drive groups.

A further set of experiments is planned involving the use of positive feed-back designs. In some previous research has used relatively short (1' to 2') practice periods separated by 5' rest pauses to investigate the point where practice periods are long enough to produce J.R.P.s. This point is indexed by the appearance of a phenomenon believed to be due to the extinction of conditioned inhibition, which itself is produced by the reinforcement given by the I.R.P.s to the condition of "not working" or resting; extinction of conditioned inhibition shows itself by a pronounced up-swing in the work curve after the rest cause is over and additional to the reminiscence affect. A suitable length of work period can in theory be chosen such that high-drive groups do not yet produce I.R.P.s, while low-drive groups do; thus the former would not produce conditioned inhibition, while the latter would. As conditioned inhibition is theoretically considered to be a habit which does not dissipate in time, it should be additive, and thus the low-drive group should become more and more differentiated from the high drive group. Again the precise time intervals involved would be the crucial point of the experiment, as only in this way can we construct the beginnings of a proper quantitative theory of drive.

A third set of experiment relates to a comparison of the present method of measuring drive with elternative methods. In particular, it would seem from some unpublished vork lone in this laboratory that performance may be useful for the measurement of drive under two rather different conditions.

(a) Then rerforance is so practiced that there are no great difference

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habit strength, or shillty, then differences in performance are in theory
due entirely to differences in inhibition and drive. Performance decrements
under these conditions would be indicative of strength of drive, if we are
satisfied to assume that randomly selected groups do not differ in rate of
secumulation of inhibition. Greater drive strength should thus neutralise
greater degrees of inhibition, so that low-drive groups should show earlier
and greater decrement. The tasks chosen would be of the type known as
"vigilance" tasks the secure of the point of the experiment would be
to compare the amount of agreement to be observed between this and the
preceding measure of drive under identical conditions, and with the same
subjects.

effects on learning depending on certain characteristics of the task

For easy tasks, where the

prevailing habits are roughly correct already, high drive improves

performance; for difficult ones, where prevailing habits are not adapted to

the task, high drive, by energising the incorrect habits, makes performance
more difficult. It is proposed to study pursuit rotor performance (1) under

normal conditions and (2) with the subject working under conditions of

reversed (mirror) vision; it is predicted that in the first instance high

drive would facilitate performance, while in the second instance it would
depress performance. Results of this experiment also would be compared

with the outcome of the other two measures of drive outlined above.

It has been an essential feature of the writer's work in the field of reminiscence that there are considerable individual difference due to differential rate of build-up of inhibition, and differential rate of

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In particular, it has been shown that

extraverts build up inhibition quickly and dissipate it slowly; this shows

itself by their greater reminiscence scores when tested under identical

conditions with introverts. It is clearly necessary to control this

personality variable, and it planned to devote special study to the interaction
of the drive variable and the temperament variable.

Apparatus and equipments. The research would require three new-built pursuit rotors of the design described above. It would also require a high-speed recorder, with amplifiers. The total cost of the equipment would be to which should be added for use of electronic computer for analysis of data, for purchase of eigerettes to be offered as incentives, and for miscellaneous expenses.

Personal. Two graduate psychologists would be required to carry out and organise the work on this project. In addition, one full-time technician would be required to make and maintain the apparatus, carry out modifications, and transport and set up the apparatus in different industrial organizations.

The salary for the two psychologists, inclusive of insurance and 10% overhead charge of the Institute for administration, would be charge of the Institute for administration, would be approximately.

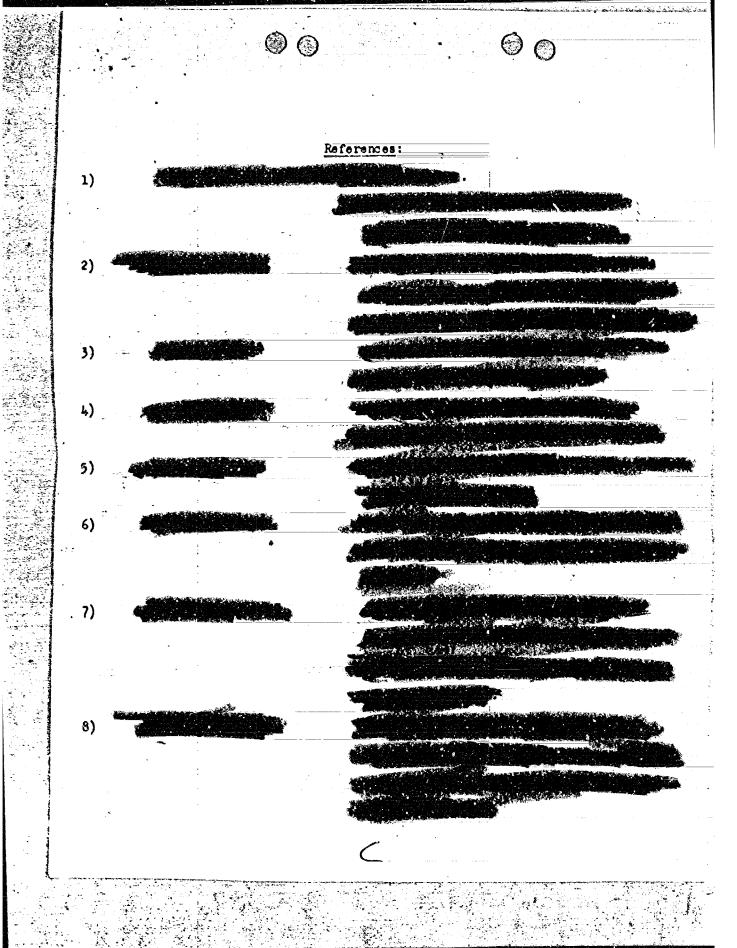
Total cost for a three-year period would be approximately.

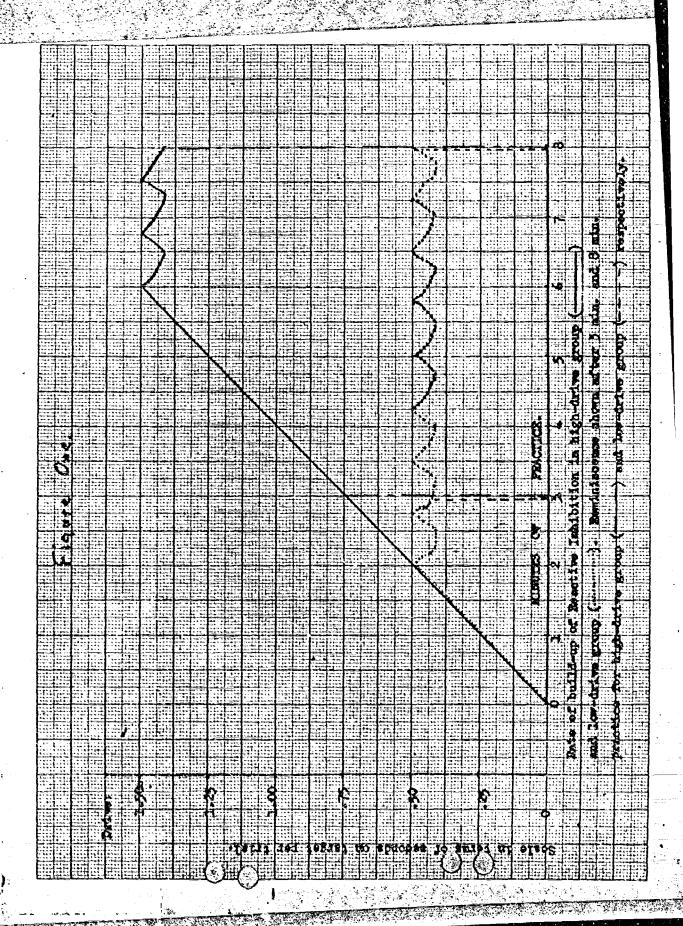
Duration of great. It is proposed to plan the work described in this application for a three-year period. It is impossible to be very specific as much depends on the actual outcome of the first few experimental investigations, and as much also depends on the degree of cooperation of the various industrial organizations where it is planted to carry out the work.

Preliminary agreement has been obtained, but only actual experimentation will



show the actual numbers of subjects forthcoming for testing.





"The Measurement of Motivation"

Comments of the reviewers and the Individual scientists are as follows:

I think we should support this.

doing important and basic work in integrating personality theory, learning theory, and the classic laboratory methods of experimental psychology. Although he is something of a controversial figure, his writings have stimulated a lot of work by others on both sides of the Atlantic. A grant to him, in fact, would add to the prestige

Would give him one year, but not three because of limited concept of motivation implied.

the international psychological scene. Right or wrong, new idea or modification of old idea, he tells his story provocatively. The notion he presents is an interesting theoretical formulation. I doubt whether it will work out. But - the skill with which and his collaborators will attach the problem will make the effort worthwhile. The budget is realistic and some preliminary work has been done.

I urge serious consideration and an affirmative decision on this proposal.

i have road the comments of th

FINANCIAL ADVISER COPY



12th Hovember 1959.

Dear &

Thank you very much for your kind letter of
November 9th and the enclosed instructions for submission of
a proposal. This was particularly velcome as I was just in
the process of drawing up a proposal for transmission to the
pleasure in enclosing a copy of the proposal and shall, of
course, be happy to answer any queries that may arise from
this.

I should perhaps add in this letter answers to
one or two of the points mentioned in your Instructions which
are not answered in the proposal itself. No support has been
requested from any the for the project, and the
ealy similar project undertaken previously is a preliminary
experiment described in some detail in the application itself.
We have done a considerable amount of work on the measurement
of reminiscence in relation to personality, but this has been
our first experiment in which reminiscence was used as
measure of drive or motivation.

With best wishes to yourself and Dr.

Yours sincerely.