

## THE BLACK VAULT

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6 November 1951

	MINORAUDUM FOR: Projects Review Committee
	"UBJECT : Proposed External Research Project with
2	${\mathcal G}$
0	1. It is proposed to establish an external research project with the
19	through the Attached
	are papers providing tackground information on the project and an advance
$\subset$	copy of the proposal to be submitted by
	2. This research will profitably contribute to Project "Artichoke"
	which was approved by the Deputy Director for Central Intelligence on
	13 Merch 1951. The funds should be made available upon completion of negotia-
$\mathcal{D}$	tions with thefor expenditure during FY-1952.
	Authorization for the funds to carry over into FY-1953, if necessary, should
•	te provided.
	3. There are no administrative support requirements within the Agency
	other than those already provided for in the budgets of the offices concerned.
	h. The project will be implemented by transfer of funds to the
$\mathcal{B}$	The will establish the project
	on an unclassified basis and monitor it in accordance with their standard
B	procedures. In the fiscal negotiations with the the
D	
	cost for their services in monitoring the project, if any, should be investi-
	grited.
	5. This project was brought to our attention by, and is fully coordi-
B	nated with, the
	6. This project has been coordinated with DD(Plans), and the Assistant
G	Directors of MASO,
	Attach: .

## PACKGROUND LIFORMATION ON

17	Throse Stations of the	Inches many evente	1943/3 21V3 M	4 7 17:17:14				·		
13	HOPER F	PETRAPOH PROJECT	WIIH	The contract of the contract o	- '	-				

1. The project invalves research and development of a new technique known as "side tone delay", as an aid to interrelations. The technique does not solve the interrogation problem but will, if successfully developed, provide a useful device under certain conditions. As such it will make a useful contribution to certain aspects of Project Artichoks.

r B	2. The project was suggested by	to the
0 -	where It was referred to the	
3 '	. Representatives of the	
<u> </u>	) feel that this is a promis	ing device
3,	which warrants development. However, they state that has com-	mitted all
(	of the funds they will have available for this purpose in FI-1952	. They
:	feel that this is a matter in which CIA could make a useful contr	ibution
:	in the community interest and from which CIA night realize consid	erable benefit.
13	3. Fina has suggested that, should CIA wish to undertake the	project,
B	the Agency should deal directly with The contact,	
_ ·	, advises that his office would be willing to edminister the	project on

an unclassified basis except that his office will classify as secret any

negotietions with CIA and the fact that CIA has an interest in the matter.

C	ADVANUE COPY OF	PEOPOSAL TO
13	BE CUINITUD TO THE	

, engaged in the development and application of interrogation methods as used primarily in personnel and criminal investigations, proposes that it conduct research in the application of side tone delay to interrogation techniques.

described independently by and by in 1950. It was found that speaking difficulty is experienced by a subject when his speech is delayed a frection of a second in traveling to his ears.

Preliminary experiments in our laboratory indicate that side tone dealy will be useful in accelerating the process of obtaining desired information from subjects who have given positive guilt responses under polygraph examination. The available evidence beers out the basic postulate of the author of this proposal that the effects of side tone delay when applied during the telling of a lie will lead the subject to the independent and erroneous conclusion that his speech difficulty has made his guilt obvious to the examiner. The subject's association of guilt with his lack of speech control is a natural mintake since the effects of side tone delay are similar to the manifestations of guilt of an inexpert hier (stuttering, steamoring, confusion, etc.). On the other hand an invocent subject suffers only a temporary confusion and it does not appear possible that false self-incrimination can result.

Preliminary experiments have indicated the need for the investigation of several factors in the development of side tone delay as an interrogation aid.

- 1. It will be necessary to study the optimum degree of delay.
- his study of word list reading and do not appear to apply accurately under the conditions of importance here. Furthermore, it may be that optimum results will attend the use of a variable cycling delay.
- 2. Since present polygraph interrogation technique requires that conceptible replies only to give by the subject it is clear that this method of questioning is not adapted to the purpose at hand. Therefore the development of a questioning technique that will, among other things, tend to require lengthy and detailed answers will be of prime importance. Preliminary experiments have shown that this will to a difficult problem.
- 3. It may be possible to initiate and control side tone delay by means of polygraph responses. Thus an abnormal response, through a suitable linkage, which introduce and proportion the delay. With the additional tension in the subject that this would develop it might be found that a sort of regenerative amplification process would tend to take place, which if obtainable, would, of course, hasten the breaking down of the subject.
- In the use of side tone delay without devices attached to the subject appears to be of importance for those applications where an appearance that normal interviewing techniques are in use, is desirable. The considerable benefits that would result indicate the importance of investigating combinations of directional microphones and focussing speaker arrangements to this end.

The principal investigator will be	
•	
	•
The	Polygraph records
overt and covert muccular contractions and muccular pro-	sauron ascorted by
the subject which detects efforts to best the test.	
	With this instru-
rand, new do eptilen criteria was noted and the number of	'inconclarivo resorts
were substantially reduced. Introduced a co	rplately new question-
ing technique in lie detection which simplifies the int	erpretation of the

		will be reta	ined to carry	on the instrum	ent and
apperatus	reserveh and	development.	This firm wil	l utilize full	. time ar
instrumen	nt engineer for	r this purpose	under the dir	ection of	i
			•		

It is estimated that the program will require one year for completion and it is proposed that it be carried out under a fixed price contract covering the following items:

1.	Salaries		
	A. Principal investigator - No ( B. Assistant investigator - Full time C. Fecretary - One-third time	charge \$ 7500. 1200.	\$ 8700.
2.	Materials expendable  A. Chart paper  B. Instrument repair parts	200. 250.	h50•
3.	A. Polygraph instrument	1700. 775.	2և75•
4.	Travel A. 3 trips to Washington @ \$125.00	375•	375•
5.	Peports A. Multigraphing	850. 500.	1350.
6.	Shipping Classified Material	100.	100.
7.	A.D.T. Security System	800.	800,
8.	Overhead, 50% of Salaries	կ350•	4350.
3 9.	Services of		,
C	A. Calaries  a.Director, - No charge  b. Instrument Engineer - Full time  c. Secretary - One-third time	7500. 1200. \$	8700.
-	B. Materials e pendable  a. Metal bar stock, sheet, etc.  b. Electronic and sound components	300. 2000.	2300,
	<ul><li>C. Capital items</li><li>a. Tepe recorder for modification</li></ul>	775•	775.
	D. Travel  a. Three trips to Washington, D. C.	375.	375•
	E. Overherd, 40% of salaries	31,80.	31,80. 15630.
	Total		\$34230.