ORD 2448-65
9 SEP 1965

ADM-6.1

MEMORANDUM FOR: Director of Logistics

SUBJECT : Transfer of Funds to the Office of Naval Research for Project OXYGAS/A (Dolphins)

REFERENCE : a. ORD Requisition 851-65 dated 27 December 1964
b. Navy Contract NONR 4568(00)

1. The Office of Research and Development requests that funds in the amount of $81,000 be transferred to the Office of Naval Research in order that new training facility construction may be effected by Navy on Project OXYGAS/A (reference a & b).

2. The new dolphin training facilities are to be constructed on the U.S. Naval Base at Key West, Florida. The attached maps and drawings provide specific details relating to the proposed construction. The Office of Naval Research should be instructed during the course of funds transfer that CIA does not wish to proceed with the construction of building B called for in the attached drawings.

3. The requirement for the proposed construction of a new dolphin training facility at Key West has been influenced by the following factors:

a. The dolphin training program has progressed to a point where simulated operational missions are now necessary. The security arrangements at the existing site at Grassy Key, Fla. are inadequate for this type of endeavor.

b. The existing facility at Grassy Key is inadequate from an animal housing and range area standpoint to accommodate the next phase of work.

4. Of the $81,000 to be used for construction purposes, $66,000 is earmarked for basic construction, e.g., animal pens, fencing, piers, etc. $15,000 is for an animal maintenance and storage building including refrigeration for food supplies for the dolphins. It will be noted in the attached proposal from [redacted] that the contractor originally requested $75,000 for the construction costs. Subsequent discussions with the contractor have resulted in agreements to have certain additional construction work done at this time which, if delayed further, would result in excessive construction costs. The proposed subcontractor for the basic construction

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SUBJECT: Transfer of Funds to the Office of Naval Research for Project OXYGAS/A (Dolphins)

work ($66,000) is [redacted] Key West, Fla. This concern was selected not only because it submitted the lowest construction bid but also because of the high recommendations provided by U.S. Navy officials at Key West, Fla.

5. Detailed coordination meetings on all phases of the planned construction have been held with the Office of Naval Research and Admiral Christopher, Commander of the Key West Naval District. Complete concurrence on these plans has been received from all Navy officials involved.

6. Dr. John Adkins, Assistant Chief Scientist, Office of Naval Research, is the cognizant official on this project. There are no recommended changes in the previous security, reporting, or sterility code arrangements. [redacted], extension 4218, is the project officer on this contract and will monitor its execution.

[redacted]

ROBERT M. CHAPMAN
Director of Research and Development

Attachments
1. Letter proposal plus facility sketches, price quotation [redacted] and map of Key West, Fla.
2. Requisition ORD 851-66

CONCURRENCE:

16 SEP 1965
Date

[redacted]
Deputy Director
for
Science and Technology

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ADM-6.1

DD/S&T-3958-65
9 SEP 1965

MEMORANDUM FOR: Director of Logistics

SUBJECT: Establishment of New Task with [redacted]

1. The Office of Research and Development requests that a new task be negotiated with the subject firm for work on "Dynamic Filtering of Speech Signals."

2. The scope of work to be accomplished is to study and develop methods of dynamic filtering of speech signals to suppress the effects of additive background noises. The attached proposal describes the program which will include a study aimed at determining the best signal processing methods for use in both general purpose digital computer implementations and later designs for real-time dynamic filtering systems.

3. The contractor will furnish a final technical report, monthly progress reports, and such other reports and briefing aids as may be required by the Project Officer.

4. Agency association will be classified CONFIDENTIAL. All reports are to be classified SECRET.

~~SECRET~~

~~SECRET~~

5. Dr. John D. Sanders, extension 4227, will be the Project Officer and will monitor the program.

[redacted]

ROBERT M. CHAPMAN
Director of Research and Development

Attachments

[redacted]

2. Requisition ORD-612-66

APPROVED:

for Signed: John F. Blake
ALBERT D. WHEELON
Deputy Director
for
Science and Technology

1 OCT 1965
Date

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AP/ORD/DD/S&T/John D. Sanders:am (4227 - 3 Sept. '65)

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ADM-6.1

DD/ST# 3958-65/1

ORD-2405-65
9 SEP 1965

MEMORANDUM FOR: Deputy Director for Science and Technology

SUBJECT: Establishment of New Task with [redacted]

1. Approval is recommended for the establishment of a new task with [redacted] to study and develop methods of dynamic filtering of speech signals. This program is proposed for a 12 month period at an estimated cost of $49,684.

2. The program includes a study to determine the best audio signal processing methods for a real-time dynamic filtering system; that is, an electronic filter system which would periodically change its characteristics to best suppress the effects of additive background noises. This will improve the intelligibility of speech recordings that have been corrupted by additive noise and furthermore, will reduce the fatigue induced by listening to such tapes for extended periods.

3. The initial dynamic filtering experiments will be carried out by sampling and quantizing the speech plus noise signals and storing the digital data in a computer. Dynamic filtering operations will then be programmed and carried out digitally. The advantage of initial experimentation with a general purpose computer lies in the accuracy with which the operations can be carried out, and the flexibility with which the

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processing techniques can be modified for experimental purposes. These initial experiments will be done in non-real-time, but lead to the later design and construction of a real-time dynamic filtering system.

4. This project is part of a general program within AP/ORD to improve the recovery of intelligence from existing and future recordings made from audio surveillance devices. The proposed program is an outgrowth of a previous broad study, "Methods of Speech Processing for Communications" done by [redacted] for this Agency.

5. [redacted] was chosen to perform this task because of their capabilities in speech processing techniques, both digital and analogue, and because of their previously demonstrated familiarity with the problems of speech intelligibility degradation introduced by various background noises encountered in audio surveillance. [redacted], who will be in charge of this project, did the above mentioned study which was excellent and comprehensive. The mathematical models for such processing prepared by [redacted] AP/ORD consultant, proved too unwieldy for OCS to handle, but have been incorporated into this proposal. The overall proposal was evaluated by [redacted] and considered excellent; furthermore, it has been coordinated with [redacted] whose optical processings techniques are complementary with this work. In addition, interchange of any appropriate information among [redacted] will be effected to obtain maximum results from this work.

[redacted]

ROBERT M. CHAPMAN
Director of Research and Development