Approved for Release: 2019/07/30 C02384117

HOLD
OXYGAS

3.3(h)(2)

6.2(d)

ORD-446-65
16 February 1965

MEMORANDUM FOR: Deputy Chief/Maritime Branch/SOD/DD/P

SUBJECT : Project OXYGAS

TITLE: Study of Feasibility of Training Dolphins for Operational Uses

CONTRACTOR: [redacted]

DATES AND FUNDING: 7 May 1964 - 14 January 1965 - $97,870
15 January 1965 - 15 July 1965 - $80,000

1. Storms and physical relocation of this project have delayed the technical feasibility demonstration which is now scheduled for 29 March 1965.

2. Two dolphins are now routinely delivering simulated [redacted]

3. Tasks to be undertaken in the follow-on period of 15 January 1965 to 15 July 1965 include the following:

a. Obtain two or more new "wild" animals for training by the latest most direct training methods.
b. Extend the [redacted]
c. Conduct further studies on reinforcement limitations, i.e., time vs. distance vs. reinforcement modality (e.g., bridging stimuli, etc.).
d. Fabricate and test optimized payload configuration.
e. Carry out a system design study (paper exercise) for fixing of mission parameters and limitations.

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4. In addition to the work being accomplished by [redacted] we are negotiating with ONR to [redacted] a program designed to answer some of our critical questions [redacted] at a funding level of $80,000. Problems being considered in this negotiation are:

a. Reinforcement limitations including bridging techniques.
b. Communication links
c. Optimal training techniques
d. Harness systems
e. Physiology - including anesthesiology, pharmacology, respiratory gas exchange as related to decompression, and dolphin health problems.

5. The ONR and [redacted] programs are not redundant and are designed to compliment one another.

[redacted]
LS/ORD/DD/S&T

CONCURRENCE:

[redacted]
Technical Manager
LS/ORD/DD/S&T

(Date)

Distribution:
Original & 1 - Addressee
1 - BDF
1 - TM/LS/ORD/DD/S&T
1 - Project File - OXYGAS
1 - LS Chrono
1 - ORD Chrono
1 - JNP Reading File

LS/ORD/DD/S&T: [redacted] /hn:5155(15 February 1965)

SECRET

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