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AUTHORITY
onr ltr, 26 oct 1977

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Armed Services Technical Information Agency

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PRINCETON UNIVERSITY
PRINCETON, NEW JERSEY
SCHOOL OF ENGINEERING, JOHN C. GREEN FOUNDATION

FC

April 4, 1956

DEPARTMENT OF AERONAUTICAL ENGINEERING
THE JAMES FORRESTAL RESEARCH CENTER

AD No. 9/337
ASTIA FILE COPY

To: Commanding Officer
Office of Naval Research
Air Branch/Code 461
Department of the Navy
Washington 25, D. C.

Subject: Tandem Helicopter Stability Program, Status Report for the
month of March, 1956.

Contract N6 onr-27024

Flight Test Operations:

Despite unusually poor flying conditions during the month of March,
several lateral static stability data flights were accomplished and the
results are under analysis.

A report entitled, "Instrumentation of a Tandem Helicopter for Static
and Dynamic Stability and Control Flight Tests", has been completed and is
now being printed. Distribution is expected shortly.

Theoretical Analysis:

Studies have been continued of the variation of the stability deriva-
tives with speed. These are being compared with preliminary flight results.
Analog computer studies of dynamic response based on the theoretical deriva-
tives are continuing. Preliminary results indicate that considerable simpli-
fication of the complete equations on motion is permissible over most of the
speed range.

Very truly yours,

Leonard Goland

LEONARD GOLAND
Chief Project Engineer

LG/nt

cc:

- 3 - Commanding Officer, ONR, Wash.
- 1 - Commander C. W. Meshier
- 1 - J. Levy, ONR, N. Y.
- 1 - Special Devices Center - Code 910
- 1 - R. Booth, DE 31, BuAer
- 8 - Office Chief of Trans. Dept. of the Army
- 1 - Asst. Chief of Staff, G-4, R & D
- 1 - Commanding General, Fort Monroe, Virginia ATDEV-6
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