

*Gen. Carter's Director's
notebook*

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JOINT MESSAGEFORM			
SECURITY CLASSIFICATION			
TOP SECRET/BYEMAN			
TYPE MSG	BOOK	MULTI	SINGLE
PRECEDENCE			
ACTION IMMEDIATE			
INFO			

~~TOP SECRET~~

Handle via BYEMAN
Control System

FROM: **WHIG 0501**

TO: [REDACTED]

EYES ONLY FOR GENERAL MARTIN FROM DR. McMILLAN

DORIAN SECUR

This message is in four parts.

PART I: The purpose of this message is to provide further guidance for conduct of the present DORIAN effort, particularly that dealing with the manned/unmanned capabilities. This message revises instructions in parts of WHIG 3537 and Program Directive 65-2.

PART II. A decision must be made early in the program as to how the alternative unmanned capability will be developed. To provide the basis for this decision, a two to three month analysis of the manned and unmanned versions is required to identify the critical aspects of the two approaches, including the impact on spacecraft and system design. In addition, immediate effort is to be initiated on those critical automatic subsystems required for the

SPECIAL INSTRUCTIONS

Distri:
Comm
SS-2
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DATE	TIME
28	1700
MONTH	YEAR
Sep	1965
PAGE NO.	NO. OF PAGES
1	3

D R A F T E R	TYPED NAME AND TITLE	PHONE	R E L E A S E R	SIGNATURE
	Colonel D. L. Carter/ Lt Col H. C. Howard	52725		TYPED (or stamped) NAME AND TITLE

SECURITY CLASSIFICATION	REGRADING INSTRUCTIONS
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DD FORM 173 NOV. 63

REPLACES EDITION OF 1 MAY 58 WHICH MAY BE USED.

GPO 1965-701-223

*Sur Box 336
TAB 15*

TAB 21

JOINT MESSAGEFORM - CONTINUATION SHEET

SECURITY CLASSIFICATION

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FROM:

unmanned system such as V/H sensors, image trackers, improved navigation systems for open loop V/H determination, and optical and mechanical devices for partial or total compensation of variations of image motion across the format. A report to the DNRO is required about the middle of December on the results of this analysis together with a recommended course of action, and on the progress in developing critical automatic subsystems.

PART III. The analysis of the manned and unmanned capabilities should be conducted in accordance with the following guidelines:

- (1) The unmanned capability should be developed concurrently with the manned.
- (2) The unmanned capability should be achieved if possible by using a camera system for the manned version that can operate without a man.
- (3) The best possible automatic systems for navigation, camera motion pointing, focusing and image/control should be incorporated in the manned as well as the unmanned systems.
- (4) The camera optical system should have the objective of operating either manned or unmanned with up to [redacted] resolution.
- (5) Planning at the present time should provide for a flight demonstration of the unmanned mode at the best feasible resolution within nine months after the first manned flight.

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INITIALS

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JOINT MESSAGEFORM - CONTINUATION SHEET

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FROM:

~~(S)~~ Although Eastman Kodak has been designated as the primary DORIAN contractor, this analysis should include concurrent review of alternate optical systems to establish whether there is any other system which would be preferable to that being pursued by EK, particularly with regard to reducing the possibility of resolution degradation in either the manned or unmanned modes. It is recognized that if this review produces a preferable alternative system, it will be necessary to determine whether a program reorientation is necessary or desirable.

PART IV. For planning purposes, later development of a large optical system of high resolution which can satisfy intelligence needs not met by the current DORIAN remains open. EK is to be allowed to propose on a larger system and ITEK and P-E are to be continued in their present paid competition for two to four months.

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