

DEPARTMENT OF THE AIR FORCE
WASHINGTON

OFFICE OF THE UNDER SECRETARY

2 September 1965

Memorandum for Record

Subject: Ziess Questar Photography Taken on Gemini-V Flight

1. In accordance with agreements between Dr. McMillan and Dr. Seamans, all Ziess Questar photography from Gemini-V was diverted to Washington for processing by NPIC and review prior to any release or use in debriefing, analysis of results, etc. This photography consisted of:

<u>Magazine</u>	<u>Film</u>	<u>Experiment</u>	<u>Remarks</u>
9	Black & White Kodak 3400 Pan X	D-1	Under-exposed - Not printable
10	Black & White Kodak 3401 plus	D-6	62 images
11	Color Ektachrome IR 8443	D-6	16 images
12	Color Anscochrome D-50	NASA	Good
	Color Anscochrome D-50	NASA	Good
	Color Anscochrome D-200	NASA	1 exposure only - Malfunction
	Color Anscochrome D-200	NASA	Not exposed - No images
	Color Ektachrome Normal 8442	NASA	Not exposed - No images
	Color Ektachrome IR 8443	NASA	Not exposed - No images

Handle via STEELMAN
Control System

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*Internal
1 copy only*

2. The review group convened at NPIC on 1 September at 1530. A list of those attending is attached. (Tab 1) The following paragraphs summarize the information presented at this review and the conclusions reached.

3. The processing was a most difficult and tedious task due to lack of information. Exposures varied from 1/25 at f 9.6 to 1/500 at f 16 in black and white and color and the correlation to the Astronaut's log was most difficult.

4. NPIC evaluation provided the following best estimates of resolution:

Black and white*	Approximately 40 feet
IR	Approximately 50-60 feet
Color	Approximately 60 feet

* A 20-foot bar (resolution 40') was resolved at Holloman Air Force Base.

A summary of the usable DoD photography is attached. (Tab 2)

5. Discussion on release resulted in following conclusions which were concurred in by the principals from each organization present:

(a) Classify the D-1 and D-6 experiment photography as SECRET. The ground rules subsequently defined for handling this material are attached. (Tab 3)

(b) General Stewart, SAFSS, review D-1 and D-6 photography to determine which frames could be declassified and released.

(c) Criteria for release of D-1 and D-6 film;

(1) Public interest; (2) No intelligence significance; (3) No classified United States military information; (4) Small political impact. Select IR photography to mix with the black and white and with NASA color photography.

(d) Magazine I2 (six rolls of color - NASA) would be returned to NASA, MSC and considered unclassified. Dr. Seamans and Department of State will review for release of certain frames by Embassies in concert with United States as appropriate.

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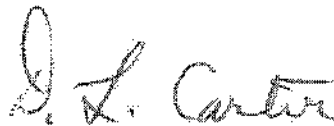
(e) Representative of SAFSS to carry all film to Houston on 2 September 1965. He is to deliver NASA film in accordance with instructions from Colonel Sweet of NASA. He is to maintain control of DoD film throughout debriefing schedule, and return DoD film to SAFSS for further disposition.

(f) Certain D-1 and D-6 (classified) frames will be provided to Department of State for study and possible use in the diplomatic arena.

(g) It is probable that no further Questar (or equivalent resolution) photography is required.

(h) It was noted that D-6 (B&W) photography has a relation to other satellite photography which is currently undergoing review for sanitization and declassification.

6. Dr. Jenne noted a possible future problem, if such photography is continued, in relating this photography to the duly constituted responsibilities of the DCI.



David L. Carter
Colonel, USAF

POSTSCRIPT: 7 September 1965

As a result of Major Yost's trip to Houston on 3 September, it was learned that only magazines 9 and 10 were taken with the Questar lens; the balance was exposed with a 200 mm lens on the Ziess camera.

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Introductory Remarks by Major Yost

In light of the possibility that a portion of the photography exposed on GEMINI Flight 5 may contain intelligence information, Dr. McMillan early last month agreed with Dr. Seamans to procedures which would divert the Questar film to the Washington area for processing here at NPIC and review and evaluation at this meeting.

Three groups of film were exposed during the Flight of GEMINI-5. The first group was 70 film exposed by a Hasselblad camera. This film has been delivered to MSC, Houston and is being processed and reviewed there.

The second group was 35 mm film exposed by a Zeiss Contarex reflex camera with a Questar 1270 mm lens. This film was delivered to Washington and has been processed by NPIC.

This group of film represents that exposed under three DOD experiments.

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- D-1 To determine man's ability to track, acquire and photograph objects in space.
- D-2 To test man's proficiency in obtaining high resolution photographs of an orbiting object while maneuvering.
- D-6 To investigate technical problems associated with man's ability to acquire, track and photograph terrestrial objects.

Also delivered to Washington was the third group of 6 cassettes exposed by the same Zeiss camera under the area of "GEMINI-5 General Photography." This film has also been processed by NPIC.

As of now, arrangements call for the return by DOD of these products upon completion of this review and evaluation to NASA bonded storage at MSC, Houston.

Jack Davis will now discuss the processing. He will be followed by Mr. Pearce, who will discuss resolution and Major Lowery, who will discuss targetting and mission take.

Mr. Davis

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