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SPECIAL HANDLING

4 Dec 64

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SP-6

MEMORANDUM FOR FILE

SUBJECT: Fulcrum briefing to Dr. McMillan on 4 December, Data on

1. Dr. McMillan was briefed privately by Mr. Maxie on 4 December 64.
2. Mr. Maxie indicated all was going well.
3. The design was about the same as the 3 Aug 64 charts except the film was moved. Still 60 in, F/3, two cameras.
4. Weight breakdown:

<u>Items</u>	<u>New</u>	<u>Old</u>
Payload portion (cameras)	2,137	2,143
Reentry system less film	690	540
Spacecraft (dry wt) Includes 3 batteries for 7 days	1,521	1,503 (wet)
Main film (TE)	330	380
SI package (old small)	45	45
	<u>5,320</u>	
Expendables	600	
Believe these were included in spacecraft in old numbers. Probably change from H ₂ O ₂		
TOTAL	5,920	5,201

Note: Titan II polar 100 n. mi. orbit capability about 5,578 pounds
For 30 perigee, 200 apogee about 5,900 pounds

5. Dr. McMillan indicated this OK for Titan III. However, he may have meant with Agena or transtage. Titan III, sans Agena or transtage, is 5,300 pounds for 100 n. mi. polar orbit.

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6. Coverage is still 11,000,000 sq mi in stereo.

7. Dr. McMillan questioned resolution vs. coverage vs. weight. He thought: either Spoelhof data he had was too conservative or Mr. Maxie was getting something for nothing and wanted this checked out. He wanted the aim curve data examined. His data follows:

	Dr. McMillan [redacted] (Source unknown)		Itak from Maxie	
	Center Resolution	.9 Edge Resolution	Center	.9 Edge
Static	190	160	160	135
Dynamic 2 ⁷ 7	?	?	135	120
<u>From Gorman: New EK System</u>				
<u>61", F/3.5</u>				
Static	175			
Dynamic	150			

8. Dr. McMillan also quoted some [redacted] data of 7,000 pounds film for 10⁷ sq mile coverage and questioned this against 320 pounds for Maxie.

FRANK B. GORMAN
 Captain, USN
 Dep Director, SAFSP

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