

AMM

E. J. ...

MAR 8 1972

HLO

TO: Manned Spacecraft Center
 Attn: SA/Director

FROM: M/Associate Administrator for Manned Space Flight

SUBJECT: Skylab Flight Management Proposal

I have reviewed your plan for Skylab Flight Management and feel the basic concept of a Flight Management Team is sound and should be further developed with the Skylab Program Office in conjunction with inputs from other Headquarters offices. I have also reviewed Bill Schneider's plans for coordinating program and operational decisions, obtaining appropriate inputs from sponsoring offices and communicating mission status during the Skylab mission period. The MSC proposed plan and the Program Office planning are jointly supportive and should provide the necessary broad-based involvement inherent to the Skylab Program.

The Skylab Program Office is in the process of discussing mission management with the appropriate Headquarters offices after which they plan to meet with the program and operational elements of the Centers. Included in these discussions are the functions and requirements of the NASA Director for Life Sciences necessary to assure the proper level of medical input into Skylab mission decisions. Following these discussions, I will schedule a review of Skylab Mission Management with the Management Council.

The Program Office planning and the MSC proposal reflect the type of operational planning that I feel is necessary to assure our users a proper level of involvement while maintaining a system for timely management and operational decisions. It will be necessary to thoroughly exercise these complex interfaces to properly support the missions. I am committed to providing complete support to Skylab and encourage continuing management attention to the operational phase. I look forward to further discussions with you in this area, perhaps during the Apollo 16 mission.

Original signed by
 Dale D. Myers

cc: KSC/CD-Mr. Kurt H. Debus
 MSC/STR-Dr. Eberhard F.H. Bass

Prepared: HLO:EQALLer (pp: 2/25/72)
 Retyped: HLO:EQALLer (pp: 3/3/72)
 53327
 HL AI #60-72 - 1072-111
 (Suspense: 3/6/72)

SKYLAB MISSION MANAGEMENT

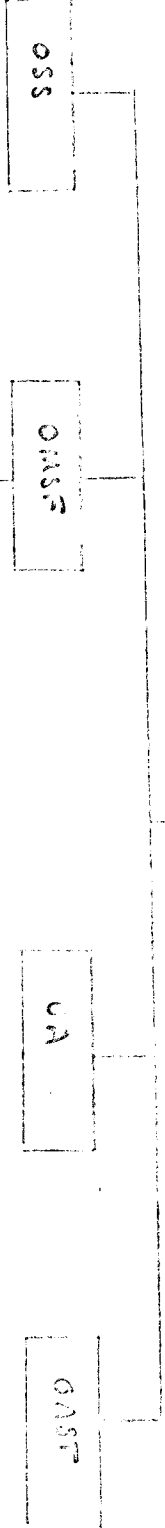
RECOMMENDATION: Direct interaction between the Director for Life Sciences with the Skylab Program Director.

RATIONALE: The Skylab missions represent a multi-dimensional increase, in terms of duration and complexity, over previous manned space flight. The Life Sciences concern is directed primarily toward crew health, efficiency and safety; however, the maintenance of these conditions relate directly to the ability of the crew to complete the total mission objective and, therefore, to achieve mission success. This recommendation is directed, therefore, to the enhancement of successful mission accomplishment. The primary exchange at this level would be concerned with overall Life Sciences mission management.

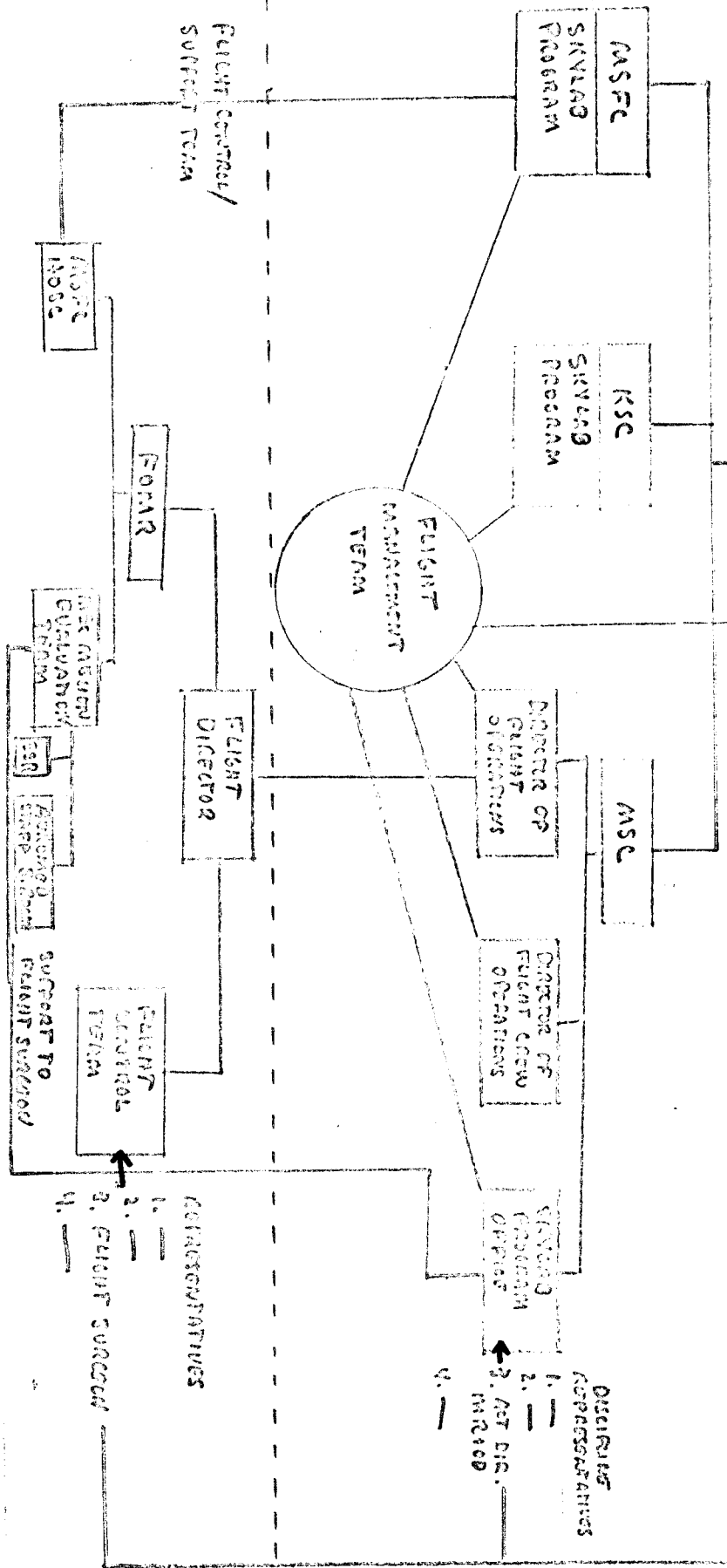
RECOMMENDATION: The Director for Life Sciences be shown with a direct line relationship to the Acting Director, Medical Research and Operations (MSC) and to the Flight Surgeon.

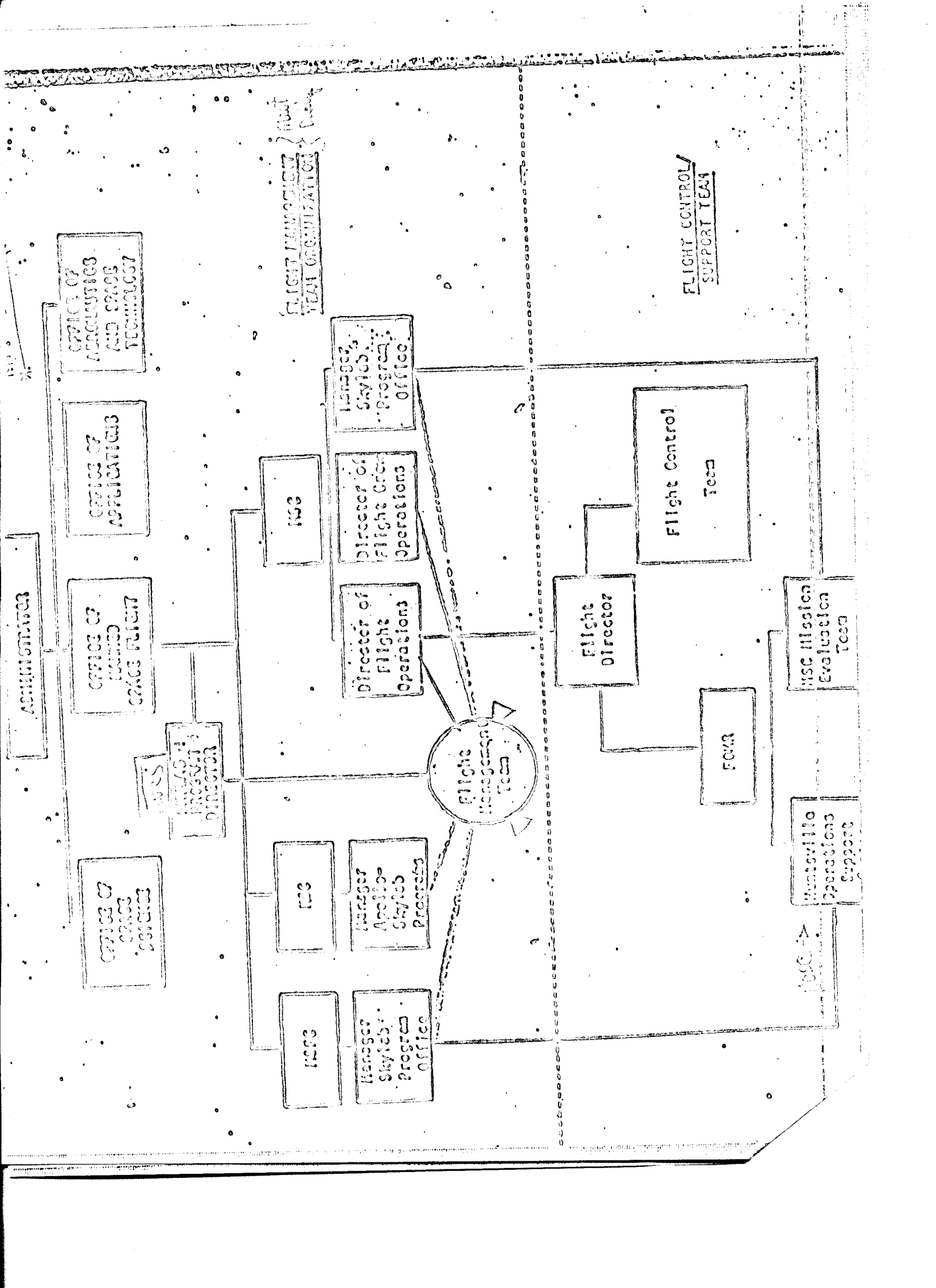
RATIONALE: In this manner, exchange of vital mission operational information can be obtained in a timely manner. This exchange can avoid misunderstanding and aid in establishing and proceeding with a unified position at both the management and operational levels.

ADMINISTRATIVE



FLIGHT MANAGEMENT TEAM ORGANIZATION





Administrator

Office of Space Centers

Office of Manned Space Flight

Office of Applications

Office of Acquisitions and Space Technology

Director of Space Programs

ISS

Manager Skylab Programs Office

ISS

Manager Apollo-Skylab Programs

ISS

Director of Flight Operations

Manager Skylab Programs Office

Flight Management Team

Flight Director

Flight Control Team

FCMR

Director of Operations Support

Mission Evaluation Team

Flight Management Team Organization

Flight Control Support Team

SKYLAB FLIGHT MANAGEMENT TEAM MEMBERSHIP

- 0 SKYLAB PROGRAM DIRECTOR* - CHAIRMAN**
- 0 **K** MSC SKYLAB PROGRAM MANAGER*
- 0 MSFC SKYLAB PROGRAM MANAGER*
- 0 KSC SKYLAB PROGRAM MANAGER*
- 0 MSC DIRECTOR OF FLIGHT OPERATIONS*
- 0 MSC DIRECTOR OF FLIGHT CREW OPERATIONS*
→ **MSC LS.**

* OR THEIR DEPUTIES

** THE MSC SKYLAB PROGRAM MANAGER WOULD ASSUME THE CHAIRMANSHIP IN THE ABSENCE OF THE PROGRAM DIRECTOR OR DEPUTY PROGRAM DIRECTOR

NOTE: KEY ORGANIZATIONAL ELEMENTS OF HEADQUARTERS, MSC, MSFC, AND KSC WILL BE CALLED ON TO PARTICIPATE IN FMT MEETINGS AS REQUIRED. PARTICIPATION BY SCIENTIFIC PERSONNEL WILL BE AS REQUIRED BY THE PROGRAM. MEETING ACCESS WILL BE CONSTRAINED TO PERSONNEL AUTHORIZED BY FMT MEMBERS.

FLIGHT MANAGEMENT TEAM FUNCTIONS

- 0 REVIEW OF MISSIONS STATUS
- 0 DECISION MAKING/CONFLICT RESOLUTION
 - 0 * SIGNIFICANT DEVIATIONS REQUIRED FROM PRE-MISSION EXPERIMENT SCHEDULING
 - 0 * FOMR STALEMATES
 - 0 EXPERIMENT DISCIPLINE REQUESTING INCREASE IN ALLOCATED MISSION TIME DUE TO HARDWARE ANOMALIES OR TO EXPERIMENTAL RESULTS
- 0 SENIOR NASA MANAGEMENT COORDINATION
 - 0 COORDINATION OF DECISIONS WITH SPONSERING EXPERIMENT ORGANIZATIONS TO ENSURE THEIR REQUIREMENTS ARE BEING MET.
 - 0 COORDINATION OF DECISIONS WITH CENTER DIRECTORS AND OMSF MANAGEMENT AS APPROPRIATE
 - 0 BRIEFING OF SENIOR NASA MANAGEMENT ON "SIGNIFICANT IMPACT" TYPE DECISIONS

FMT MEETINGS

- o LOCATIONS - MSC BUILDING 30, ROOM L306
- o FREQUENCY -
WEEKLY MEETING NOMINALLY ON THURSDAYS IN EARLY AFTERNOON BRIEFING TO COVER MISSION STATUS, ACCOMPLISHMENTS, EQUIPMENT MALFUNCTIONS, FOURTEEN DAY SUMMARY FLIGHT PLAN FORECAST, ETC.
- o ADDITIONAL MEETINGS MAY BE CALLED AT ANY TIME BY AN "OFFICIAL" TEAM MEMBER. AGENDA TO BE PROVIDED BY MEMBER REQUESTING MEETING. NOMINALLY 24 HOURS NOTICE SHOULD BE GIVEN TO FOMR.

FMT SUPPORT

? - or "As Req"

- o THE FOMR WILL BE RESPONSIBLE FOR WEEKLY BRIEFING TO FMT
- o THE FOMR WILL COORDINATE BRIEFINGS AS APPROPRIATE FOR OTHER FMT MEETINGS
- o THE FOMR (HEADQUARTER'S REPRESENTATIVE) WILL PROVIDE SECRETARIET TO FMT INCLUDING
 - o RESPONSIBILITY FOR FMT MEETING MINUTES
 - o NOTIFICATION OF "OFFICIAL" MEMBERS OF ADDITIONAL MEETINGS INCLUDING PURPOSE/AGENDA
- o FOMR SENIOR PROGRAM REPRESENTATIVES WILL INSURE INVITATION TO PROPER SYSTEMS/HARDWARE EXPERTS FOR FMT MEETINGS: E.G., MSC THROUGH DIRECTORATE SINGLE POINTS OF CONTACT OR OTHERS AS APPROPRIATE
- o ORGANIZATIONS AND/OR ELEMENTS OF THE OPERATIONS TEAM WILL WORK THROUGH NORMAL MANAGEMENT CHANNELS IN ORDER TO BRING PROBLEMS TO THE FMT FOR PROPER RESOLUTION. E.G. -
 - (1) FLIGHT DIRECTOR TO FLIGHT OPERATIONS DIRECTOR TO FMT
 - (2) SCIENCE AND APPLICATIONS DIRECTORATE TO MSC SENIOR FOMR REPRESENTATIVE TO MSC SKYLAB PROGRAM MANAGER TO FMT