MEMORANDUM FOR GENERAL BLEYMAIER

SUBJECT: MOL Termination Guidance

The following is provided as preliminary guidance by segment and subsystem to implement the decision to terminate the MOL Program, per se, and fund only the "automatic" DORIAN camera system and its closely-related equipment in FY 1970. General ground rules used are as follows:

(1) Certain items will not be continued even though they do have a camera interface. The assumption is that any future satellite system using the DORIAN camera assembly would provide:

   a. Electrical Power
   b. Vehicle telemetry and channels for camera telemetry.
   c. Command and Control communication (to the computer).

(2) All MOL man-related AVE, AGE, and handling equipment will be terminated.

I. McDonnell-Douglas

1. Terminate:

   A. Gemini B

   a. Spacecraft
   b. Test Articles
c. Simulator

d. Aerospace Ground Equipment

e. All other items related to the Gemini

f. Return Gemini AGE to NASA

B. Laboratory Module

a. Structure - All Laboratory Structural articles except any partial-structure interface substitutes in work.

b. ECLS - Hamilton Standard

c. Electrical Power System - Allis Chalmers

d. Communications - Collins Radio

e. Communications security equipment - NSA

f. Waste System - Fairchild Hiller

g. Monitor and Alarm - Radiation Inc.

h. ACTS/SCE - Minneapolis Honeywell

i. ACTS/PROP - Marquardt

j. Crew Stations and Accommodations - MDAC

k. Crew Status Monitoring - MDAC

l. Propulsion Tank Assembly - North American Rockwell

m. Atmosphere and Reactants Storage - Airesearch

o. All Man-Related AGE (LMSE)

p. Others
2. **Continue (Partial Termination):**
   
   A. **Mission Module Structure**
      
      a. Continue any forward/aft sections in work (analyses needed prior to any new starts).
   
   B. **Computer**
      
      a. Stop work on keyboard, Alpha Numeric Displays Printers.
      
      b. Continue other effort at reduced pace; analyze possible future need for LDAU and AMU.
      
      c. Provide limited engineering support to GE/EK for awhile.

II. **GENERAL ELECTRIC**

1. **Terminate:**
   
   A. Acquisition and Tracking System - ITEK
   
   B. Simulation Equipment
      
      a. Elemental Development Simulator - GE
      
      b. Mission Development Simulator - GE
      
      c. Mission Module Simulation Equipment - GE
   
   C. Slide Viewer System - ITEK
   
   D. Cue Projector System - Lear Siegler/ACIC
   
   E. AGE/AVE Peculiar to Manned System
   
   F. GE Exchange Hardware Related to Man
   
   G. All Test Equipment AGE Related to Man

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2. **Continue (Partial Termination)**

   A. All Mission Module-related efforts, MDAU, and camera controls, etc., not man-related.

   B. CITE, less all man-related effort.

   C. Software, less all man-related effort.

III. **EASTMAN KODAK**

1. **Terminate**:

   A. Visual Optics.

   B. Processor.

   C. Viewer.

   D. EK exchange and training hardware related to man.

   E. Data Return Containers.

2. **Continue**:

   A. Remainder at reduced pace (need for Secondary platen to be analyzed).

IV. **MARTIN & ASSOCIATES**

1. **Terminate** All Titan-IIIM Activities, Including AGE.

V. **MILITARY CONSTRUCTION**

A. **SLC-6**

1. **Terminate**:

   a. All SLC-6 change orders not initiated.

   b. All design work on FY-70 $2.5M modification package.
2. Continue basic construction now underway only to point where "mothballing" is reasonable, then place in standby status (buy-out cost not to exceed $31.1 million).

B. MOL Support Facilities

1. Terminate all Pkg 1 and 2 facilities now under construction and mothball. Also terminate design effort on Mission Module support facility.

C. VAFB Recovery Facilities

1. Terminate all requirements for any other new construction at VAFB and SAC and WTR support.

VI. CREW RELATED

1. Terminate:
   A. Pressure Suit Assembly - Hamilton Standard
   B. Feeding System - Whirlpool
   C. All man-related AGE
   D. All training activities (crew & support personnel)

VII. SOFTWARE

1. Continue (partial termination) only that airborne and ground software applicable to an unmanned system. Reduce rate to minimum.

VIII. SCF

1. Stop Work on all MOL-peculiar. The STC should expect additional guidance in 30-60 days.
IX. RECOVERY OPERATIONS

1. Discontinue all recovery aid developments and operational planning. The MOL Program Office will advise the DoD Manager and stop negotiations for Easter Island use.

X. AAP EXPERIMENTS

1. Terminate D-019 and D-020 (NASA should be offered any available hardware).

XI. SUMMARY

1. McDonnell-Douglas: Terminate all Mc-D efforts except Mission Module structures in work, any Lab partial-structure interface substitutes in work, and the provision of limited engineering support to GE and EK for the time being. Terminate all McD subcontractors except for IBM (terminate all crew-peculiar items there).

2. General Electric and Eastman Kodak: Terminate all clearly man-related efforts at GE and EK and their subcontractors; continue only those camera activities applicable to incorporation of the DORIAN camera/MOL Mission Module in a new unmanned spacecraft.

3. Martin and Associates: Terminate all T-IIIM development and support activities.

4. Military Construction at VAFB: Stop Work and mothball as soon as practicable.

5. Crew-Related Contracts and Activities: Terminate or stop work on all.

6. Software: Continue, at reduced pace, only those activities clearly applicable to the DORIAN camera and IBM computer in a new unmanned spacecraft.
7. SCF: Stop work on MOL activities pending further guidance.

XII. POSSIBLE CHANGES IN ABOVE:

In preliminary discussions with a few top NASA people advised of the impending MOL termination, they expressed possible interest in the waste management system, IBM keyboard, displays, and printers, and possibly some other items. Further discussions with them will be held in the AM of June 9. If anything materializes, stop-work rather than total termination notices may be issued to some of the MOL subcontractors. I will advise you of any developments in this regard by the PM of June 9.

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