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August 7, 1972

SMEAT DAILY REPORT

Number 10

This report covers from 0800 August 5, 1972 through 0800 August 7, 1972 (days 11 and 12).

I. Significant Accomplishments - On Sunday, August 6, 1972, three M171 metabolic activity experiment protocols and three M092 lower body negative pressure tests were successfully conducted. The M171 principal investigator reported that the calibration and experiment data looked good. He indicated that the results closely followed the M171 data from the test conducted on Wednesday. On Saturday evening, two M133 sleep analysis protocols were completed with Astronaut Thornton and Bobko as the test subjects. No problems were encountered with the M133 test. A vibration pad was passed into the chamber to alleviate the in-flight blood centrifuge vibration problem. All other DFO activity was completed as scheduled. I have attached a revised SMEAT activity matrix with the proper dates for your convenience in following the balance of the SMEAT test.

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II. Problems

A. Hardware

1. The M092 leg volume measuring system gave unstable readings for two leg bands during one LBNP run. The cause of the failure is being investigated.

2. During one M171 metabolic activity run the heart rate meter hung at the high position and did not provide data throughout the test. This problem has previously been reported and is felt to be a problem peculiar to the DVTU ESS.

3. The crew continues to experience problems with the food packages as previously reported and a special crew debriefing is planned with the cognizant food system personnel in the next couple of days.

B. Facility Problems

1. The computer in the Bldg. 36 medical experiment data room malfunctioned during a portion of the medical experiment tests on 8/6. A fan motor in the computer burned out requiring the computer to be shut down for the last 5 minutes of the M171 run. No data was lost since the SMEAT information is recorded on an analog recorder in Bldg. 7.

2. A primary oxygen supply warning light was activated. This did not cause any problem with the test and it is felt that a pressure regulator may have been the cause for this activation.

3. The crew reported that the portable light mounting in the chamber is inadequate. *OK*

C. Procedural Problems - No major problems were encountered.


### III. Medical Summary

The mission surgeon reported that the crew remains in excellent health and no medical problems have been encountered to date.

### IV. Misc. Comments

MSFC representatives to SMEAT are developing a test protocol to more fully evaluate the vacuum cleaner and possible modifications to improve the overall performance of this equipment.

A PAO news briefing is scheduled with the SMEAT crewmen at 3 pm on August 8. Questions will be submitted to the crew in writing prior to this press conference.

  
Richard S. Johnston  
Manager, Test Operations  
Management Committee