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SUBJ: Trip Report - Spacelab Mission Development Test III Experiment Proposal Review

The subject meeting was held at Ames Research Center (ARC) on July 7 and was cochaired by Dr. Joe Sharpe (ARC) and Dr. John Rummel (JSC). JSC attendees were Dr. Carter Alexander, Robert Nolte, Fred Spross, and Don Mangold; ARC, David Feller, William Williams, William Berry, Paul Calihan, and J. W. Tremor.

The meeting was devoted primarily to the detailed review of 20 nonhuman and nine human ARC experiment proposals which were selected from an initial list of 63 proposals. As proposed, the ARC complement of experiments would require approximately 30 racks and an undetermined amount of power. The total number of animals required would be approximately 110 rats, 70 mice, six monkeys, and 500 fruit flies. Each of the nonhuman experiments appeared to be both technically and operationally feasible. The human experiments will be further evaluated together with the JSC proposals. One of the human experiments required use of the sled and will not receive further consideration for SMD III. JSC/ARC agreed to proceed with planning for the ARC experiments with ARC performing further scrubbing and combining of experiments to make them compatible with the Spacelab. It appears that the SMD III manifest will be primarily ARC experiments with a few token JSC experiments.

ARC has assigned only one project engineer to support all of the experiments. It is not clear how the experiment hardware will be developed. ARC expects to assign a project manager to SMD III and is trying to obtain some help from their Center Operations Directorate. After final selection of SMD III experiments, JSC will assign a project engineer to each experiment, including those sponsored by ARC. ARC plans to assemble their experiments in racks and then ship to JSC.

There was very little discussion of program management, schedules, responsibilities, or test operations. ARC and JSC agreed to a March 15, 1977, start date for the conduct of SMD III. It was agreed that JSC will develop, for review with ARC, a detailed schedule to include all milestones for development of facilities, experiments, and documentation. ARC is expecting considerable assistance from JSC for the development of crew experiment procedures and the crew activity plan.