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PROJECT

BYE-7123-69
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PROGRESS REPORT NO. 21

Status of HEXAGON as of 15 February 1969

1. The Donovan Committee, charged by the System Program Director, General Martin, to review the overall status and adequacy of system engineering, submitted the results of their investigation. The consensus was that system engineering and integration was in reasonably good shape, and no major deficiencies were discovered. The Committee submitted fifty recommendations for consideration by General Martin. The Air Force and Agency Project Offices are reviewing the recommendations to determine which should be implemented.

2. A Technical Advisory Committee to the Director of Special Projects reviewed the status of the sensor subsystem program at Perkin-Elmer on 21-22 January. Committee members attending the review were Drs. Richard Garwin, Sidney Drell, Joseph Shea, and Mr. Frank Lehan. The consensus of the Committee was that good progress had been made since their last review in March 1968 and that there did not appear to be any serious technical problems to be solved in achieving specified system performance. The difficult servo design of the film transport system, which was an item of major concern to the Committee last March, was considered to be satisfactorily resolved.

3. A briefing was presented at NPIC to approximately 130 members of the intelligence users community on 28 January. Presentations covered the general requirements, design and status of the HEXAGON system.

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HANDLE VIA BYEMAN CONTROL SYSTEM ONLY

HEXAGON (continued)

4. Technical Progress.

a. A film properties experimental program was initiated at Wright-Patterson Air Force Base to determine some of the key physical properties of SO-380 film which Eastman-Kodak was unable to provide and which are needed for the final satellite vehicle thermal design and for the pressure/moisture aspects of the sensor subsystem film path.

b. The acoustic facility at Perkin-Elmer was used for the first time to test the Mass Model two-camera assembly, with satisfactory results.

c. A design review of the take-up test station for use at McDonnell-Douglas and at the integrating contractor's was successfully completed.

d. A design review was successfully conducted on the Test Data Management System (TDMS) which will handle the data output of the major thermal-vacuum test stations.