

PL-CWP-136

J. F. Jacobs

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Memorandum 6L-243

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Division 6 - Lincoln Laboratory  
Massachusetts Institute of Technology  
Lexington 73, Massachusetts

CLASSIFICATION MARKS TO:  
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SUBJECT: COMMITTEE-236 MEETING MINUTES (FOURTH MEETING, 25 January 1956)

To: Distribution List

From: E. S. Rich

Date: 14 February 1956

Approved: C. R. Wieser  
C. R. Wieser

Attendance:

- |              |              |
|--------------|--------------|
| C. K. Wieser | H. Sherman   |
| S. H. Dodd   | N. H. Taylor |
| V. A. Nedzel | E. S. Rich   |

1.0 AGENDA

1. Progress Report on Work of ESS Planning Staff
2. Demonstrations of ESS Operation
3. ESS Systems Engineer
4. Simultaneous Live Interceptions in ESS
5. GE Data Link
6. Phone Lines

2.0 DISCUSSION OF AGENDA ITEMS

2.1 Progress Report on Work of ESS Planning Staff

Rich gave a report on the status and progress of the work of the planning staff. At present they are concentrating the major part of their effort on the following items:

- (1) Meshing the broad requirements for shakedown and for evaluation tests into a single series of live and simulated system exercises. The immediate need for this effort is to specify the requirements for live aircraft and for Air Force operators.
- (2) Collecting and reviewing schedules for the purpose of publishing the first summary schedule.
- (3) Studying XD-1 time allocation along with Group 62 in order to revise the document which was released for LPO approval last Fall.

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- (4) Studying internal organization, office procedures, systems for records, reporting, etc., to establish systematic methods for follow-up on activities and for publishing working information to all interested groups.
- (5) Establishing long-range plans for the ESS Planning Staff effort. Considerable effort is needed to collect and sort information on all the activities which are now going on in preparation for tests of the Experimental Subsector. There appears to be an immediate need to list tasks and responsibilities of all participating groups to determine where holes exist in the over-all plans. The staff is attempting to compile such a list and it is estimated that it will require four to six weeks to do this.

Questions have arisen among the staff members on what problems should be presented to Committee-236 for approval and which ones should be settled by Rich and Wells in discussions with Lincoln Group Leaders involved. An example quoted was the question of whether manual height finders at Martha's Vineyard and Pigeon Hill should be eliminated from the list of equipment contained in the Experimental Subsector. It was stated that in so far as possible all questions should be settled by Rich and Wells outside of the Committee except those which might have a bearing on any past agreements or understanding between Lincoln and outside agencies, such as the Air Force. In the case of the manual height finders, for example, the Committee rather than the Planning Staff should decide what action should be followed and would ensure that proper concurrence and release by TIR would take place.

## 2.2 Demonstrations

Wieser observed that a proposal document had stated that Group 23 would handle demonstrations of the Experimental Subsector for outside visitors. He made the point that Group 23 is not capable of handling demonstrations in the manner in which they were conducted for the Cape Cod System. Demonstrations of the Cape Cod type call for guides, briefing, and indoctrination. Group 23 could not do these jobs, although they might be asked to handle advance arrangements for attendance, etc. Sherman commented that if demonstrations must be accepted, there seemed to be several possible steps which might conserve manpower that should be investigated. These would include maximum use of tape recording, film, and other recording media.

## 2.3 ESS Systems Engineer

There was considerable discussion of the need for one man to be designated as a supervisor of the systems activities on the Experimental Subsector during the time that large scale shakedown and evaluation tests are in progress. It would be the responsibility of this person to view the tests from an over-all system standpoint and to ensure that progress of the test program is not jeopardized by unnecessary interruptions, failures, weaknesses, or inadequacies. He would diagnose system troubles to the extent necessary to determine which Groups should take corrective action. In so far as is

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possible he would attempt to avoid interruptions and delays by taking appropriate steps to see that weaknesses are pinpointed and corrected before they cause interruptions. He would carry out his function by coordinating the activities of all the groups involved, calling on the appropriate groups to initiate activities most suited to their areas of responsibility. Rich was proposed as a candidate for this position. This proposal was accepted by all those present. Wieser and Taylor then stated that this proposal had been previously discussed independently among the other committee members in Divisions 2 and 6 respectively and that this proposal was acceptable to them also. It was agreed, therefore, that Rich has the position of ESS Systems Engineer as an added responsibility.

#### 2.4 Simultaneous Live Interceptions in ESS

Wieser reported that at the recent meeting of the SEPTC Committee some questions had arisen as to whether presently planned tests would prove the capability of the SAGE system to handle 400 tracks plus 200 simultaneous interceptions. He stated that he had asked the ESS-Planning Coordination Center to make a study of the problems involved in running a test to prove this capability. One of the significant quantities in considering such a test is the communication facilities which will be available within the system. The ESS Planning Group has been asked to have this study completed prior to the next meeting of the SEPTC Committee.

#### 2.5 GE Data Link

Sherman made an announcement that the plans for integration of the GE Data Link with the Cape Cod System had been completed and the fact that this installation would take place had been confirmed. There was no discussion of this item.

#### 2.6 Phone Lines

As an item of information for the committee, Sherman also stated that he had recently been informed that the Bell Labs are planning to make available to Lincoln two complete dual-channel facilities for long-range-radar inputs as well as a complete data service for a gap-filler input. These are expected to be ready by the end of March and to be installed early in April. Sherman will take action to see that decisions are reached as to where these facilities should be installed in ESS.

*E. S. Rich*  
E. S. Rich

ESR:mfc

cc: W. B. Davenport	F. E. Heart	P. Rosen	G. E. Valley
S. H. Dodd	J. F. Jacobs	H. Sherman	W. I. Wells
R. R. Everett	V. A. Nedzel	J. C. Starks	C. R. Wieser
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			J. W. Forrester

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