

Document Room

Memorandum 6M-4202

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

SUBJECT: SAGE SYSTEM MEETING, 20 FEBRUARY 1956
 To: Distribution List
 From: P. J. Gray
 Date: 21 February 1956
 Approved: *B. E. Morriss*
 B. E. Morriss

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- Agenda:
1. AN/TSQ-7 Output Section
 2. Report to TAPE on SAGE-Integration
 3. Combat Center Display Slots
 4. Subsystems Test Specifications
 5. Meetings Scheduled This Week

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Meetings Attendants

Others

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 J. A. Arnow
 W. S. Attridge
 D. R. Aufderheide
 W. H. Ayer
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 D. R. Brown
 W. Canty
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 P. J. Gray
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 R. S. Fallows
 J. Ishihara
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 W. N. Papian
 H. K. Rising
 A. R. Shoolman
 P. R. Vance

NOTE: ALL OF THE ABOVE
TO RECEIVE COMPLETE
MEMORANDUM.

1. AN/TSQ-7 Output Section

The Lincoln Project Office received a request to see that the ADES Communication document included communications links to TALOS. In their reply, the Lincoln Project Office strongly recommended that TALOS use a 750 cycle (TSQ-7) output link. This is directly opposed to the opinion held by Lincoln for sometime as to the desirability of 750 vs. 1300 cycle outputs. There still seems to be considerable doubt as to the desirability and necessity of using the lower data rate.

2. Report to TAPE on SAGE Integration

The summary minutes of the TAPE (Technical Advisory Panel Electronics) task group on SAGE integration in which certain Lincoln personnel have participated appear to be overly optimistic with regard to the problems of the 750 cycle output. It was suggested that Lincoln may not be taking a sufficiently strong stand on the subject of output data rates. Representatives of Group 61 were instructed to gather the complete story on this problem and to report back to the SAGE meeting.

3. Combat Center Display Slots

Initial studies of display slot requirements at Combat Centers indicated that the number of required was nearly double the number of display slots available under present AN/FSQ-7 - AN/FSQ-8 design. A method of time sharing of display slots, with a resulting increase in length of the display cycle to 3 seconds was unacceptable to Air Defense Command representatives and seems to be in general an undesirable approach. Upon restudy of the display slot requirements, these have been reduced to a point which will fit within the capacity of the AN/FSQ-8. There is, however, negligible excess capacity for future requirements.

4. Subsystems Test Specifications

The first subsystem test specification has been received from Bell Telephone Laboratories for Lincoln comments. There was some feeling in the group that an insufficient amount of information has been added in the process of generating a specification from the test concepts, which are being released by Lincoln. The opinion was also expressed that the specification contained insufficient emphasis on long term reliability.

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5. Meetings Scheduled This Week

a. There is a meeting at Murphy General Hospital on Tuesday, which General Wray of the Air Force Joint Project Office will attend. The space requirements of the various organizations at Murphy will be discussed.

SIGNED:



P. J. Gray

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