

*Document Room*

Memorandum 6M-4360

Page 1 of 6

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

SUBJECT: MINUTES OF THE IBM-DCO CONCURRENCE MEETING NO. 64 HELD AT  
LINCOLN LABORATORY 31 MAY 1956

To: S. H. Dodd and N. H. Taylor

From: J. Giordano

Date: 4 June 1956

Approved: J. D. Crane  
J. D. Crane

LIN. LAB. DIV. 6  
DOCUMENT ROOM  
DO NOT REMOVE  
FROM  
THIS ROOM

DISTRIBUTION LIST

MIT

- R. D. Buzzard
- D.C.O. (4)
- R. R. Everett
- J. F. Jacobs
- K. E. McVicar
- J. P. May
- J. A. O'Brien
- P.C.O. (4)
- E. S. Rich
- H. K. Rising
- N. H. Taylor
- E. D. Lundberg

IBM at LINCOLN

- C. A. Andrews
- R. W. Arnold
- R. L. Dawson
- J. F. Mills
- F. A. Weber
- H. J. White

ADES/WE at ADES/WE

H. E. Gale

IBM

- C. P. Baccari
- P. A. Beeby
- F. A. Behnke
- R. W. Carlson
- R. D. Cole
- R. P. Crago
- W. A. Dayger
- A. P. DiMarco
- F. M. Furman
- E. H. Goldman
- R. A. Imm
- C. F. Lynch
- B. H. Matteson
- M. C. Portanova
- A. E. Quick
- A. H. Raymond, Jr.
- H. D. Ross
- P. J. Sharkitt
- W. S. Squire
- R. J. Whalen
- H. Van Allen

ADES/WE at LINCOLN

J. Catharine

ABOVE RECIPIENTS TO RECEIVE COMPLETE MEMORANDUM

This document is issued for internal distribution and use only by and for Lincoln Laboratory personnel. It should not be given or shown to any other individuals or groups without express authorization. It may not be reproduced in whole or in part without permission in writing from Lincoln Laboratory.

The research reported in this document was supported jointly by the Department of the Army, the Department of the Navy, and the Department of the Air Force under Air Force Contract No. AF 19(122)-458.

1.0 Introduction

A concurrence meeting was held on 31 May 1956 at Lincoln Laboratory, Lexington, Mass. Those in attendance were:

<u>IBM</u>	<u>MIT</u>
R. Eisele	J. D. Crane
R. A. Imm	J. Giordano
W. S. Squire	

2.0 Agenda

2.1 Previous Minutes

The Minutes of the Concurrence Meeting Nos. 61, 62, and 63 require approval.

2.2 Duplex Agenda

2.2.1 Items for Concurrence

- S-27, Output Control and Storage Specifications for the AN/FSQ-7 Combat Direction Central and AN/FSQ-8 Combat Control Central; PH-57-24001, dated 1 December 1955.
- S-47, Display-Manual Data Input Warning Light Marginal Checking and Distribution Unit Specifications for AN/FSQ-7 Combat Direction Central and AN/FSQ-8 Combat Control Central; PH-57-26016, dated 21 March 1956.
- S-22-1, Change to the Manual Data Input Element Specifications for AN/FSQ-7 Combat Direction Central and AN/FSQ-8 Combat Control Central; PH-57-23003, dated 30 March 1956.
- D-78-7, Change to Specifications for GFI Monitor Equipment for the AN/FSQ-7 Combat Direction Central, dated 20 April 1956.
- S-29-1, Change to General Display System Specifications for AN/FSQ-7 and AN/FSQ-8.
- S-29-6, Change to General Display System Specifications for AN/FSQ-7 and AN/FSQ-8.
- S-19, Drum System Specifications for AN/FSQ-7 and AN/FSQ-8.

- S-19-1, Change to the Drum System Specifications for AN/FSQ-7 and AN/FSQ-8.
- S-31, Photographic Recorder, Reproducer System AN/FSQ-7 and AN/FSQ-8.
- S-34, Internal Power Distribution Specifications for AN/FSQ-7 and AN/FSQ-8.

2.2.2 Items for Discussion

None

2.3 Prototype Agenda

2.3.1 Items for Concurrence

None

2.3.2 Items for Discussion

A proposed method of checking the parity on each individual word of an LRI message.

3.0 Minutes

3.1 Previous Minutes

No minutes of the previous concurrence meetings were approved.

3.2 Duplex

3.2.1 Documents Concurred

The documents that are listed in this section received concurrence. Any reservations or comments are indicated in the description accompanying each document.

1. S-22-1; Change to the Manual Data Input Elements Specifications for AN/FSQ-7 Combat Direction Central and AN/FSQ-8 Combat Control Central; PH-57-23003, dated 30 March 1956.
  - a. Description: This change to the Manual Data Input Element Specification provides the facilities for the testing of the encoder matrix with the light guns and the viewing of the output of the encoder matrix and the information transmitted to the MDI element from the Display System at the duplex maintenance console.

- b. Modifications, Comments and/or Objections: Minor revisions were made to further clarify the document.
  - c. Priority: Class "C" Change. IBM recommends retrofit of this item.
  - d. Effect on XD-1 and/or XD-2: None
  - e. Machine Affected: AN/FSQ-7 and AN/FSQ-8
  - f. Action: An ECP is required as well as a Lincoln TIR.
2. S-47; Display-Manual Data Input-Warning Light Marginal Checking and Distribution Unit Specifications for AN/FSQ-7 Combat Direction Central and AN/FSQ-8 Combat Control Central; PH-57-26016, dated 21 March 1956.
- a. Description: A description of the unit which shall serve as the secondary distribution of d-c service, d-c marginal checking, d-c relay, and regulated and unregulated a-c voltages for the power control and distribution (PCD) unit. Supersedes applicable sections of D-44-1.
  - b. Modifications, Comments and/or Objections: Minor revisions and a diagram were added to further clarify the S-note.
  - c. Priority: Not applicable
  - d. Effect on XD-1 and/or XD-2: Not applicable
  - e. Machine Affected: AN/FSQ-7 and AN/FSQ-8
  - f. Action: A Lincoln TIR is needed.
3. S-27; Output Control and Storage Specifications for the AN/FSQ-7 Combat Direction Central and AN/FSQ-8 Combat Control Central; PH-57-24001, dated 1 December 1955.
- a. Description: A rewrite of the Output Control and Storage Specifications. The document supersedes D-24-2, D-24-3, D-24-4, and D-24-5.
  - b. Modifications, Comments and/or Objections: Minor revisions were added to clarify the S-note.

- c. Priority: Not applicable
  - d. Effect on XD-1 and/or XD-2: None
  - e. Machine Affected: AN/FSQ-7 and AN/FSQ-8
  - f. Action: A Lincoln TIR is needed.
4. D-78-7; Change to Specifications for GFI Monitor Equipment for the AN/FSQ-7 Combat Direction Central, dated 20 April 1956.
- a. Description: Clarification to D-78-5 and the addition of 33 lines from the camera console module. Also status of all GFI channels will be made available at the R-02 console.
  - b. Modifications, Comments and/or Objections: The DCO concurs assuming that the MSG console layout will not be affected.
  - c. Priority: Class BR Change
  - d. Effect on XD-1 and/or XD-2: The matter will be investigated to see if it pertains to XD-1.
  - e. Machine Affected: AN/FSQ-7
  - f. Action: No ECP action required. Should be released by Lincoln TIR.

### 3.2.2 Documents Deferred

1. S-29-1, Change to General Display System Specifications for AN/FSQ-7 and AN/FSQ-8.
2. S-29-6, Change to General Display System Specifications for AN/FSQ-7 and AN/FSQ-8.
3. S-19, Drum System Specifications for AN/FSQ-7 and AN/FSQ-8.
4. S-19-1, Change to the Drum System Specifications for AN/FSQ-7 and AN/FSQ-8.
5. S-31, Photographic Recorder, Reproducer System AN/FSQ-7 and AN/FSQ-8.
6. S-34, Internal Power Distribution Specifications for AN/FSQ-7 and AN/FSQ-8.

6M-4360

Page 6

3.2.3 Discussion

None

3.3 Prototype

3.3.1 Documents Concurred

None

3.3.2 Documents Deferred

None

3.3.3 Discussion

A proposed method of checking the parity on each individual word of an LRI message rather than one parity check for the whole message was presented by IBM. This will be considered by both IBM and MIT before it is written as a P-document.

SIGNED:

  
J. Giordano

JG: jg