MINUTES OF THE IBM-DCO CONCURRENCE MEETING NO. 62 HELD AT
LINCOLN LABORATORY 27 MAY 1956

SUBJECT: LINCOLN LABORATORY 27 MAY 1956

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

From: J. Giordano

Date: 21 May 1956

Approved: J. D. Crane

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1.0 Introduction

A concurrence meeting was held on May 17, 1956 at Lincoln Laboratory, Lexington, Mass. Those in attendance were:

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<tr>
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2.0 Agenda

2.1 Previous Minutes

The Minutes of the Concurrence Meeting Nos. 59, 60, and 61 require approval.

2.2 Duplex Agenda

2.2.1 Items for Concurrence

S-46-1, Change to Duplex Console CB Unit Specifications for AN/FSQ-7 Combat Direction Central and AN/FSQ-8 Combat Control Central by A. J. Sykas dated 27 April 1956.

S-18, Direct Entry Card Machine Specifications for AN/FSQ-7 Combat Direction Central and AN/FSQ-8 Combat Control Central; PH57-21008.

S-56, Maintenance Card Machine Specifications for AN/FSQ-7 Combat Direction Central and AN/FSQ-8 Combat Control Central; PH57-23007.

S-76, Maintenance Intercommunication Specifications for AN/FSQ-8 Combat Control Central When Combined With an AN/FSQ-7 Combat Direction Central; PH57-28008.


2.2.2 Items for Discussion

1. R-02 Console Label Layouts

2. Information as to the number of errors or error rate that can occur in the input system

3. A status report by IBM on RECI's submitted by DCO.
2.3 Prototype Agenda

2.3.1 Items for Concurrence

P-192-2, Automatic Branch on Alarms for XD-1 by R. C. Irwin dated 23 April 1956.

P-182-6, Supplement to Command Post Digital Display Desk Specifications for XD-1 by H. P. Hempel dated 1 May 1956.

2.3.2 Items for Discussion

None

3.0 Minutes

3.1 Previous Minutes

The Minutes of the Concurrence Meeting Nos. 59 and 60 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-46-1; Change to Display Console CB Unit Specifications for AN/FSQ-7 Combat Direction Central and AN/FSQ-8 Combat Control Central by A. J. Sykas dated 27 April 1956.

   a. Description: This change allows a circuit breaker for the photographic recorder-reproducer unit.

   b. Modifications: None

   c. Priority: Class A Change

   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, and a Lincoln TIR should release this change.

2. S-48; Direct Entry Card Machine Specifications for AN/FSQ-7 Combat Direction Central and AN/FSQ-8 Combat Control Central; PH57-21006.
a. Description: This specifies the card reader, a printer and a card punch which will be used during maintenance activities and for entering or readout of program information. This document supersedes D-12 and D-12-1.

b. Comments: It has been decided to use .009 cards as previously concurred.

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: No action except a Lincoln TIR is needed.

3. S-56; Maintenance Card Machine Specifications for AN/FSQ-7 Combat Direction Central and AN/FSQ-8 Combat Control Central; PH57-28007.

a. Description: This document specifies card machines that could be used in Combat Direction and Control Centrals for Maintenance and record-keeping purposes. Supersedes D-73 and applicable sections of D-92.

b. Comments: It has been decided to use .009 cards as previously concurred.

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: No action except a Lincoln TIR should be released.

4. S-76; Maintenance Intercommunication Specifications for AN/FSQ-8 Combat Control Central When Combined With an AN/FSQ-7 Combat Direction Central; PH57-28008.

a. Description: This document describes that part of the 701 dial exchange intercommunications equipment necessary to facilitate maintenance of AN/FSQ-8 Combat Control Central When Combined With AN/FSQ-7 Combat Direction Central. The document supersedes D-95-1 and its concurrence letter.
b. Comments: MIT concurrence should be interpreted to mean the approval of the Maintenance Inter­communication concept. Design details are subject to coordination with WE-ADES.

c. Priority: Not applicable

d. Effect on XD-1 and/or XD-2: None


f. Action: No action required except release of a Lincoln TIR.


a. Description: This change allows the testing of the encoder matrix without the use of the light gun simulator. The document supersedes D-18-3.

b. Comments: The new method of testing encoder matrix if required will be described in S-22-1.

c. Priority: This change should be made as soon as possible.

d. Effect on XD-1 and/or XD-2: None

e. Machine Affected: Affects the AN/FSQ-7 and AN/FSQ-8. This should be in the DC-1 machine.

f. Action: This item should be released by TIR; however, it is not believed to be an ECP item.

3.2.2 Documents Deferred


3.2.3 Discussion

1. R02 Console label layouts are needed by IBM. MIT is making changes in these label layouts to make the R02 console compatible with the D-78-7.
2. IBM has again requested of Lincoln a firm requirement of the number of errors or error rates that can occur in the phone line system before the operational program cannot perform its function. This information would be used by IBM to determine the range of operation of the parity rate alarm.

3. MIT DCO has requested a periodical status report on REC1's submitted by Lincoln to IBM. IBM has consented to do this.

3.3 Prototype

3.3.1 Documents Concurred

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

1. P-182-6; Supplement to Command Post Digital Display Desk Specifications for XD-1 by H. P. Hempel dated 1 May 1956.

   a. Description: Clarifications of equipment provided for the remote controls for the Large Board Projection Equipment in the Command Post.

   b. Comments: Clarification of Existing Equipment.

   c. Priority: Not applicable

   d. Effect on Production: None

   e. Machine Affected: XD-1

   f. Action: None

2. P-192-2; Automatic Branch on Alarms of XD-1 by R. C. Irwin dated 23 April 1956.

   a. Description: Change in P-192-1 to read "set the program counter to (20,010)g to make XD-1 consistent with XD-2 and production machines.

   b. Modifications: None

   c. Priority: Manufacturer Convenience

   d. Effect on Production: Not applicable

   e. Machine Affected: XD-1

   f. Action: Necessary changes to be incorporated in XD-1 to perform this function. Modify ECP for P-192-1.
3.3.2 Documents Deferred
None

3.3.3 Discussion
None

SIGNED: [Signature]

JG: Jg