

~~CONFIDENTIAL~~

UNCLASSIFIED

Memorandum 6M-3851

COPY NO. 1 OF 130 COPIES
Page 1 of 24

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

SUBJECT: MASTER REFERENCE LIST OF EQUIPMENT SPECIFICATIONS FOR XD-1

TO: N. H. Taylor

From: J. Giordano and R. D. Buzzard

Date: 7 September 1955

Approved: H. E. Anderson
H. E. Anderson

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

This memorandum lists the documents that form the equipment specifications for XD-1. For each document the following information is listed:

1. IBM and/or MIT document numbers
2. Title, author, and date
3. Date of IBM - MIT concurrence and/or Lincoln release
4. A Lincoln Laboratory Division VI Document Room file number
5. A "Required" column indicating the date when the particular document is to have been implemented. In many cases the "Required" column indicates original specifications or changes that are to be incorporated in the initial installation.

CLASSIFICATION CHANGED TO:
Auth: DDJ/SY
By: RPE
Date: 4-4-60

This memorandum will be issued periodically by the Systems Office.

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 is 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)468.

This document contains information affecting the national defense of the United States within the meaning of the Espionage Laws, (Title 18 U.S.C. Sections 793 and 794). Its transmission or the revelation of its contents in any manner to an unauthorized person is prohibited by law.

~~CONFIDENTIAL~~
UNCLASSIFIED

AN/FSQ-7 (XD-1) SPECIFICATIONS
CENTRAL COMPUTER

Memorandum 6M-3851

Document Number	Title	Remarks	LL 6DR#	Required
<u>Maintenance Console</u>				
TR-17	"Maintenance Console," by R. A. Rocket dated 24 February 1954	Released 12 March 1954	IBM 441	Original Specifications
P-6	"Reset Lines," by W. S. Squire dated 6 May 1954	Concurred 1 June 1954		Initial Installation
P-134	"Core Memory Assignment Switch," by J. Feilter dated 21 January 1955	Concurred 14 February 1955	DR 310	Initial Installation
P-178	"Deletion of Preset Status Switch for Marginal Checking," by P. J. Sharkett dated 24 March 1955	Concurred 9 April 1955	DR 344	Initial Installation
P-197	"Mod. for Maintenance Console Audio Amplifier," by W. J. Canty, dated 24 May 1955	Concurred 13 July 1955	DR 367	As soon as possible
P-63	IBM Drawings, "Maintenance Console Panel Design" Drawings 539-167 - 25 June 1954 301-9230 - 30 June 1954	Concurred 27 October 1954		
<u>Program Element</u>				
TR-18	"Program Element," by R. R. Martin dated 2 March 1954	Released 8 February 1954	IBM 425	Original Specifications
	"Program Element Pluggable Units," by S. H. Thompson, dated 4 February 1954	No concurrence (explanatory information)		

CONFIDENTIAL
UNCLASSIFIED

CONFIDENTIAL
UNCLASSIFIED

CENTRAL COMPUTER (Continued)

Document Number	Title	Remarks	LL 6DR#	Required
<u>Program Element (Continued)</u>				
P-132	"Removal of Index Registers from the 'Control Clear' Line," by N. H. Decker, dated 6 January 1955	Concurred 19 January 1955	DR 311 312	As soon as possible
P-170	"Addition of 2 Index Registers," by P. Longo, dated 25 February 1955	Concurred 6 April 1955	DR 338	1 Oct. 1955
P-171	"Proposed Change for the Clock Registers," P. Longo, dated 25 February 1955	Concurred 7 April 1955	DR 337	1 Oct. 1955
<u>Test Memory</u>				
IM-79	"Proposal for Test Memory," by J. P. Murphy, dated 26 January 1954	Released 17 February 1954	IBM 398	Original Specifications
<u>Instruction Control Frame</u>				
TR-14	"Specification of Instruction Control Frame," by H. J. Kurkjian, dated 26 February 1954	Released 1 February 1954	IBM 416	Original Specifications
TR-15	"Instruction Control Frame," by S. L. Thompson, dated 10 February 1954	Released 1 February 1954	IBM 493	Original Specifications
M-2603	"Marginal Checking Breakdown of the Instruction Frame," by R. J. Pfaff	No concurrence		
H-93	"Memory Unit Selection," by J. E. MacDonald, dated 9 February 1954	No concurrence	IBM 336	
P-106	"Proposal for an Automatic 'Branch to Zero' Under Switch Control," by R. Douglas, dated 12 November 1954	Concurred 26 January 1955	DR 368	As soon as possible

Memorandum GM-3851

~~CONFIDENTIAL~~
DECLASSIFIED

~~CONFIDENTIAL~~
DECLASSIFIED

CENTRAL COMPUTER (Continued)

<u>Document Number</u>	<u>Title</u>	<u>Remarks</u>	<u>LL 6DR#</u>	<u>Required</u>
<u>Instruction Control Frame</u> (Continued)				
P-113	"Lock Address Counter Modifications," by A. Gayle, dated 22 December 1954	Concurred 22 December 1954	DR 319	Initial Installation
P-59	"Cyclic Program Control," by R. Douglas, dated 1 September 1954	Concurred 22 December 1954	DR 317	Initial Installation
<u>Magnetic Tape System</u>				
BF-1	"Magnetic Tape Proposal," by D. C. Hallock, dated 11 May 1954	Concurred 25 May 1954	DR 369	Original Specifications
P-17	"Magnetic Tape Bit Density," by D. C. Hallock, dated 17 June 1954	Concurred 29 June 1954	DR 370	Initial Installation
P-33	"Tape End of Files Proposal," by D. C. Hallock, dated 8 July 1954	Concurred 8 July 1954	DR 371	Initial Installation
P-164	"Change in Rewind Specs. of M.T. Proposal," by F. A. Glenn, dated 28 February 1955	Concurred 2 March 1955	DR 335	Initial Installation
P-247	"Magnetic Tape and Reels," by R. A. Imm, dated 9 March 1955	Concurred 30 March 1955	DR 174	Initial Installation
<u>Order Code</u>				
TR-7	"Programmer's Reference Manual," (Revised 22 December 1953) by C. E. Walston	Released 23 December 1953	IBM 216A	Original Specifications

Memorandum 6M-3851

~~CONFIDENTIAL~~

CONFIDENTIAL
DECLASSIFIED

CENTRAL COMPUTER (continued)

Document Number	Title	Remarks	LL 6DR#	Required
<u>Order Code (continued)</u>				
H-106	"Standard Instruction Abbreviations," by W. H. Thomas, dated 11 February 1954	Concurred 11 February 1954	IBM 343	Original Specifications
H-134	"Sense, Select, Select Drums and Operate Codes," by H. L. Kurkjian, dated 21 April 1954	Concurred 11 February 1954	IBM 436	"
P-167	"Proposed Change for the Addition of an Operate Unit Instr. (operate 36) and for a Change in Nomenclature for (operate 35)," by P. Longo, dated 25 February 1955	Concurred 30 March 1955	DR 332 333	Initial Instal- lation
P-185-1	"PERSELBSN Codes," by N. H. Decker, dated 5 July 1955	Concurred 13 July 1955 Revision of H-134	DR 372 373	"
IM-88	"Performance Specification for the AN/FSQ-7 Memory Element," by W. N. Papiian and W. M. Wittenberg	Released 9 April 1954	IBM 441	Original Specifications
<u>Selection Control Frame</u>				
TR-24	"Specification of the Input-Output Control Frame," by H. J. Kurkjian, dated 8 March 1954	Released 23 April 1954	IBM 483	"
P-10	"Deletion of Drum Disconnect or Parity Alarm at Selection Control Frame"	Concurred 8 June 1954	DR 374	Initial Instal- lation

Memorandum 6M-3851

~~CONFIDENTIAL~~
UNCLASSIFIED

~~CONFIDENTIAL~~
UNCLASSIFIED

CENTRAL COMPUTER (continued)

Document Number	Title	Remarks	LL 6DR#	Required
<u>Selection Control Frame (continued)</u>				
P-32	"Proposed Changes to the Selection and IO Control Element for Output System Alarms," W. S. Squire, dated 7 July 1954	Concurred 15 July 1954	DR 376	Initial Instal- lation
P-60	"Proposal for "Operate" Instruction to Turn Off IO Interlock," by R. McGill, dated 6 October 1954	Concurred 22 December 1954	DR 375	"
P-149-1	"Changes in the Selection and I/O Control Element Specifications (Sense Display Interrogation)," by R. S. Trevison and W. S. Squire, dated 13 July 1955	Concurred 13 July 1955	DR 292 293	1 Dec. 1955
<u>Arithmetic Element</u>				
TR-27	"Specification of the Arithmetic Element," by C. P. Baccari, dated 14 April 1954	Concurred 6 May 1954 Released 3 June 1954	IBM 476	Original Specifications
P-91	"XD-1 Parity Count and Parity Check Controls," by H. Kurkjian, dated 20 September 1954	Concurred by letter to J. F. Mills, dated 22 December 1954	DR 320	Initial Instal- lation
<u>Card Machines</u>				
TR-25	"Card Machine System Operation," by F. Glenn, R. C. Castle, and R. Imm, dated 9 July 1954	Concurred 4 April 1954	IBM 574	Original Specifications
P-7	"Change in Card Machine Specifications," by R. J. Cypser, dated 15 June 1954	Concurred 15 June 1954	DR 377	Initial Installation
P-181	"Proposed Changed in the Card Machines," by R. W. Bottomley and S. L. Thompson	Concurred 19 May 1955	DR 271	1 January 1956

Memorandum 6M-3851

~~CONFIDENTIAL~~
CLASSIFIED

~~CONFIDENTIAL~~
UNCLASSIFIED

CENTRAL COMPUTER (continued)

<u>Document Number</u>	<u>Title</u>	<u>Remarks</u>	<u>LL 6DR#</u>	<u>Required</u>
<u>Card Machines (continued)</u>				
P-194	"Standby Card Machines for XD-1," R. J. Paddock, dated 21 June 1955	Concurred 23 June 1955		As soon as possible
P-175	"Revision of the 723 Punch," by R. J. Paddock, dated 31 March 1955	Concurred 25 August 1955	DR 378	"
<u>Telephone Maintenance Intercom System</u>				
P-72	"Proposed Prototype Maintenance Inter-communications Systems Specifications," by A. Gayle, dated 30 September 1954	Released 31 December 1954	DR 379	Original Specifications
P-81	"Modifications of XD-1 Maintenance Intercom Specifications," by H. J. Kirshner, dated 18 December 1954	Concurred 18 December 1954	DR 380	Initial Installation
P-181	6M-3000 and Supplements 3, 6 and 10, by H. J. Kirshner	Concurred 25 March 1955		"
<u>General Changes to Central Computer</u>				
P-183	"Proposed Changes to CC by the Addition of an AXD System," by P. Longo, dated 20 April 1955	Concurred 3 May 1955	DR 350 351	1 Feb. 1956
P-192	"Proposal for the Addition of the Automatic Branch on Alarms Feature," by P. Longo, dated 6 June 1955	Concurred 13 July 1955	DR 365 366	1 Feb. 1956

Memorandum 6M-3851

CONFIDENTIAL
UNCLASSIFIED

CONFIDENTIAL
UNCLASSIFIED

CENTRAL COMPUTER (continued)

Memorandum 6M-3851

Document Number	Title	Remarks	LL 6DR#	Required
<u>General Changes to Central Computer (continued)</u>				
IM-64	"Marginal Checking System for XD-1", by L. R. Walters	Released 9 February 1954	IBM 306	Original Specifications
P-5	"Calculator Control of Marginal Checking," by P. Sharkitt, dated 27 April 1954	Concurred 8 June 1954	DR 381	Initial Installation
<u>DRUM SYSTEM</u>				
P-142-1	"IM-70-2 Drum System Specifications," by N. H. Decker	Supercedes all Previous Documents. Rewritten to include the Addition of AXD Concurred 23 June 1955	DR 382	The added AXD is re- quired by 1 Feb. 1956
<u>INPUT SYSTEM</u>				
<u>Manual Inputs</u>				
<u>Manual Input Frame</u>				
IM-68	"The Manual Inputs System," by W. M. McMillan, dated 25 January 1954	} Concurred 26 January 1954 Released 2 February 1954	IBM 339	Original Specifications
TR-13	"Modified O26," by R. E. Wilser, dated 26 February 1954		IBM 369	"
P-37	"Power Source for Keyboard Inputs," by W. S. Squire, dated 12 July 1954	Concurred 15 July 1954	DR 383	Initial Installation

~~CONFIDENTIAL~~
UNCLASSIFIED

~~CONFIDENTIAL~~
UNCLASSIFIED

INPUT SYSTEM (continued)

Memorandum 6M-3851

~~CONFIDENTIAL~~

Page 9

Document Number	Title	Remarks	IL 6DR# Required
<u>Manual Inputs (continued)</u>			
<u>Card Reader</u>			
<u>Specifications</u>			
H-87	"026 Card Reader Specifications," by W. M. McMillan, dated 16 December 1953	} Concluded 29 January 1954 Released 3 February 1954	IBM Original 266 Specifications
H-96	"056 Card Verifier-Reader Specifications," by R. E. Wilser		IBM 301
TR-13	"Modified 026," by R. E. Wilser, dated 26 February 1954	Concluded 26 January 1954 Released 2 February 1954	IBM 369
P-193	"009 Card Stock for Binary Punching and Reading,"	Concluded 23 June 1955	DR Initial 303 Installation
<u>Phone Line Recorder</u>			
BP-2	"Concluded Request for Phone Line Data Recorder," by M. J. Raffensperger, dated 12 May 1954	Concluded 24 May 1954	DR 384
<u>Warning Lights</u>			
P-34	"New Proposal for Warning Light System," by H. J. Kurkjian, dated 2 July 1954	Concluded 15 July 1954	DR Original 385 Specifications
P-13	"Proposed Specifications of the Operation of the Warning Light System," by W. S. Squire, dated 10 June 1954	Concluded 24 June 1954	DR 386

~~CONFIDENTIAL~~

UNCLASSIFIED

INPUT SYSTEM (continued)

Memorandum 6M-3851

Document Number	Title	Remarks	LL 6DR#	Required
<u>Manual Inputs</u> (continued)				
<u>Warning Lights</u> (continued)				
P-49	"Warning Light Frame Specifications," by W. S. Squire, dated 23 July 1954	Concurred 18 August 1954	DR 387	Initial Installation
P-69	"Concurrence Letter on Changes in the XD-1 Warning Lights Specifications," by R. P. Mayer, dated 18 November 1954	Concurred 18 November 1954	DR 388	"
<u>Automatic Inputs</u>				
<u>GFI Consoles</u>				
P-54	"Modified SDV Radar Input Element Proposal for XD-1," by A. P. Arneth	Concurred 8 July 1954	DR 389	"
P-138	6M-3146-1, "Proposal for Mapping Materials and Utility Holder," by M. Feldstein, dated 22 March 1955	Concurred 22 March 1955	DR 315	As soon as possible
<u>GFI Mapper Counter Frame</u>				
BP-20	"Proposed Radar Input Counter Section," by M. J. Raffensperger, dated 18 March 1954	Released 30 March 1954	DR 390	Original Specifications
Drawing - 3028008				

CONFIDENTIAL
 UNCLASSIFIED

UNCLASSIFIED
 CONFIDENTIAL

INPUT SYSTEM (continued)

Document Number	Title	Remarks	LL 6DR#	Required
<u>Automatic Inputs</u> (continued)				
<u>GFI Monitor</u>				
P-188-2	"GFI Monitor Equipment for XD-1 and Production Machines," by J. J. Coughlin, dated 24 May 1955	Concurred 7 June 1955	DR 296 297	As soon as possible
P-188-3	"GFI Monitor Specifications," by W. S. Squire	Concurred 13 July 1955	DR 295	As soon as possible
<u>Crosstelling Input</u>				
P-14	"Crosstelling Input Performance Specifications for AN/FSQ-7 (XD-1) and (XD-2)," by P. W. Rocco, dated 4 June 1954	Concurred 8 July 1954 Released 7 September 1954	DR 391	Original Specifications
P-75	"Changes to Crosstelling Input Specifications," by W. S. Squire, dated 13 December 1954	Concurred 13 December 1954	DR 392	Initial Installation
<u>LRI Frame</u>				
P-47	"Revised Performance Specifications for Miscellaneous Radar Input," by W. S. Squire, dated 13 July 1954	Concurred 17 August 1954 Released 24 September 1954	DR 393	Original Specifications
P-124	"Changes to LRI and Output System," by R. C. Marden, dated 24 March 1955 (Affects P-47 and P-52)	Concurred 24 March 1955	DR 394	Initial Installation

Memorandum 64-3851

~~CONFIDENTIAL~~
 UNCLASSIFIED

~~CONFIDENTIAL~~
 UNCLASSIFIED

INPUT SYSTEM (continued)

Document Number	Title	Remarks	LL 6DR#	Required
<u>Automatic Inputs</u> (continued)				
<u>LRI Frame</u> (continued)				
P-150	"Proposal for Modifications of XD-1 LRI Equipment to Provide for Acceptance of Phone-Line Data from South Truro," by H. J. White, dated 8 April 1955 (Added Scope)	Concurred 15 April 1955	DR 331	1 Oct. 1955
P-152	"Proposal for Modification of XD-1 LRI Equipment to Provide for the Acceptance of Production Type of P-Site Phone-line Signal," 6M-3333, by A. M. Werlin, dated 27 January 1955	Concurred 24 March 1955		Initial Installation
<u>LRI Monitor Specifications</u>				
P-189	"Installation of LRI Monitor Breadboard Equipment in XD-1," by J. J. Coughlin, dated 24 August 1955	Concurred 8 August 1955	DR 355 356	September 1955
<u>Input Pattern Generator</u>				
P-186-1	"Proposed Specifications for Input Pattern Generator," by N. H. Decker	Pending	DR 309	

Memorandum 6M-3851

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

UNCLASSIFIED

OUTPUT SYSTEM

Document Number	Title	Remarks	LL 6DR# Required
<u>Bomarc</u>			
M-2848-1	"Proposal for Communication Between AN/FSQ-7 and F-99 (Bomarc) Bases for Weapons Control," by J. F. Jacobs and J. Arnou	Original Specification Released by TIR 1-17 on 12 September 1954	
<u>Output Frame</u>			
IM-77	"Output Storage Element," by L. H. Lee (Rewrite of "Proposed Core Vacuum Tube Output System," by H. K. Rising and R. G. Counihan)	Released 3 June 1954	IBM Original 466 Specifications
M-2697	"Output System Performance Specifications" 1 March 1954	Released 3 March 1954	"
M-2863	"Proposed Changes to Output System Performance Specifications," by R. C. Hopkins, dated 11 June 1954	Concurred 21 July 1954	Initial Installation
P-81	"Proposed Changed to the Output System Alarm Specifications," by W. S. Squire, dated 7 July 1954	Concurred 15 July 1954	DR 395
P-73	"Proposed Changes in the Output System Specifications M-2697," by W. S. Squire, dated 30 November 1954	Concurred 6 December 1954	"
P-180 P-180-1	"Increase of Teletype Lines for the Output System," by R. C. Marden, dated 4 April 1955 and -1 22 August 1955	Concurred 14 June 1955 (a total of 10 a total of 25	DR 345 346 1 Jan. 56 1 Apr. 56) 1 July 56)

Memorandum 6M-3851

CONFIDENTIAL
 UNCLASSIFIED

CONFIDENTIAL
 UNCLASSIFIED

OUTPUT SYSTEM (continued)

Memorandum 6M-3851

<u>Document Number</u>	<u>Title</u>	<u>Remarks</u>	<u>LL 6DR#</u>	<u>Required</u>
<u>Output Frame</u> (continued)				
P-191	"Proposed Change to the Output Performance Specifications M-2697," by J. J. Coughlin, dated 8 June 1955	Concurred 29 June 1955	DR 397	Initial Installation
P-52	"A Proposal for Testing the Output System with the MRI and Crosstell Input for XD-1 and XD-2," by P. W. Rocco and R. F. Murray, dated 19 August 1954	Concurred 3 November 1954	DR 396	"
P-43	"Teletype Monitor Proposal Letter," by A. Gayle, dated 22 July 1954	Concurred 13 September 1954	DR 398	"

DISPLAY SYSTEM

Area Discriminator

IM-72	"AN/FSQ-7 Area Discriminator Specifications for XD-1 and XD-2," by R. C. Marden, including change of 3 April 1954	Concurred 18 February 1954 Released 1 March 1954	IBM 345 378	Original Specifications
IM-74	"Specifications for Light Gun and Area Discriminator Control and Information Signals," by W. S. Squire, dated 10 March 1954	No concurrence	IBM 376	

Display System

M-2877	"Specifications for AN/FSQ-7 (XD-1) Display System," C. L. Corderman and R. S. Fallows dated 27 July 1954	Concurred 18 August 1954		Modified Original Specifications
--------	---	--------------------------	--	----------------------------------

~~CONFIDENTIAL~~
UNCLASSIFIED

~~CONFIDENTIAL~~
UNCLASSIFIED

DISPLAY SYSTEM (continued)

Document Number	Title	Remarks	LL 6DR#	Required
<u>Display System</u> (continued)				
P-77	6M-2877 Supplement 1 by R. Gerhardt, dated 12 November 1954	Concurred 15 December 1954		Initial Installation
P-139	{ 6M-2877 Supplement 2 by R. Gerhardt dated 6 December 1954 6M-2877 Supplement 3 by R. Buzzard dated 17 January 1955 6M-2877 Supplement 4 by R. Gerhardt dated 23 January 1955 6M-2877 Supplement 5 by C. Corderman dated 24 January 1955 }	Concurred 30 March 1955	DR	"
			314	
P-151	6M-2877 Supplement 6 "Specifications for Automatic Camera and Control for AN/FSQ-7," by L. Sutro, dated 12 April 1955	Concurred 8 June 1955	DR 318	"
P-207	"XD-1 Console Equipment and Label Layouts," by H. K. Rising and R. B. Buzzard, dated 1 June 1955	Concurred 21 July 1955	DR 304	15 Feb. 1956*
P-205-1	"Proposed Changes in Manual Input Cabling Between Consoles and Frame 28"	Concurred 1 September 1955	DR 412	15 Feb. 1956*
P-208	"Proposed Changes in the Manual Input Interconnection Unit (Frame 28) for XD-1"	Concurred 1 September 1955	DR 361	15 Oct. 1955
P-209	"Proposal Warning Light Inter- Connection Unit"	Concurred 1 September 1955	DR 413	15 Feb. 1956*

* These changes are to be one-third complete by 21 Nov. 1955.

Memorandum 6M-3851

~~CONFIDENTIAL~~
UNCLASSIFIED

Page 15*

~~CONFIDENTIAL~~
UNCLASSIFIED

DISPLAY SYSTEM (continued)

Memorandum 6M-3851

<u>Document Number</u>	<u>Title</u>	<u>Remarks</u>	<u>LL 6DR#</u>	<u>Required</u>
<u>Display Consoles</u>				
H-139A	"Design Specifications, Display Console for AN/FSQ-7 XD-1 and XD-2," by R. G. Mork, dated 21 June 1954	Released 8 August 1954	DR 127	Original Specifications
P-36-1	Changes to H-139A, dated 21 June 1954	Concurred September 1954	DR 399	Initial Installation
P-36-2	Changes to H-139A	Pending		
D-25-2	Dummy Loads by R. W. Lowrie	Concurred 30 March 1955	DR 260	"
<u>Auxiliary Console</u>				
P-127-1	"Auxiliary Console Specifications for XD-1, XD-2 and Production Machines," by R. C. Marden and R. W. Lowrie, dated 6 April 1955	Concurred 8 April 1955	DR 274	"
P-127-2	Amendments to "AN/FSQ-7 Auxiliary Console Specifications for XD-1, XD-2, and the Production Machine," dated 24 June 1955	Concurred 14 August 1955		"
<u>Side Frames</u>				
P-156-1	"Display Console Side Frames for XD-1, XD-2," by R. C. Marden and R. W. Lowrie, dated 11 April 1955	Concurred 14 April 1955	DR 227 253	"

~~CONFIDENTIAL~~

UNCLASSIFIED

~~CONFIDENTIAL~~
UNCLASSIFIED

DISPLAY SYSTEM (continued)

<u>Document Number</u>	<u>Title</u>	<u>Remarks</u>	<u>LL 6DR#</u>	<u>Required</u>
<u>Side Frames (continued)</u>				
P-156-2	"Supplement 2 to Display Console Side Frames for XD-1 dated 6 June 1955	Concurred 6 June 1955	DR 264 270	Initial Installation
<u>Large Board Display</u>				
P-173	"Proposed Specifications for Large Board Display," 6M-3439-2, by R. D. Buzzard and N. T. Jones, dated 21 April 1955	Concurred 8 June 1955	DR 285	1 Feb. 1956
<u>Command Post</u>				
P-182-3	"Command Post DD Desk for XD-1," G. Mico, C. Lowrie, 9 May 1955	Concurred 19 May 1955	DR 400	1 February 1956
	6M-3660, "Command Post DD Desk Design," N. T. Jones, 2 June 1955	No Concurrence		
	6M-3842, "Proposed Changes in Command Post DD Desk Specifications," N. T. Jones, 22 August 1955	No Concurrence		
	MIT Drawings D-75497-1, D-75501-1 and D-75496 of the Command Post DD Desk	No Concurrence		

Memorandum 6M-3851

~~CONFIDENTIAL~~
UNCLASSIFIED

~~CONFIDENTIAL~~
UNCLASSIFIED

ASSOCIATE EQUIPMENT

Document Number	Title	Remarks	LL 6DR#	Required
<u>Power Supplies</u>				
IM-65	"Power System for XD-1 Installation," P. A. Beeby and J. Gano, 26 January 1954	Released 18 March 1954 Concurred 8 March 1954	IBM 330	Original Specifications
P-86	"Deviation from IM-65," by R. F. Keating, 14 September 1954	Concurred 21 September 1954	DR 401	Initial Installation
P-51	"Proposal for SDV Radar Input MCD Frame for XD-1," by G. H. Halgas, 13 August 1954	Concurred 31 August 1955	DR 403	"
P-118	"Proposed Drum MCD Specifications for the XD-1 and XD-2," by N. H. Decker, 11 January 1955	Concurred 3 February 1955	DR 342 341	"
P-117	"Central Computer MCD Frame," by N. H. Decker, 19 January 1955	Concurred 5 April 1955	DR 353 354	"
P-120	"Proposed Specification for Output Crosstell and IRI MCD Frame," by N. H. Decker, 27 January 1955	Concurred 5 April 1955	DR 340 357	"
P-121	"Proposed Display Console CB Frame Specification for XD-1 and XD-2," by N. H. Decker, 10 January 1955	Concurred 5 April 1955	DR 339 358	"
P-122	"Display MI-WL MCD Frame," by N. H. Decker, 31 January 1955	Concurred 5 April 1955	DR 359 360	"
P-143	"Proposal on Specification for the Auxiliary Drum MCD Unit," by N. H. Decker, 3 March 1955	Concurred 29 April 1955	DR 313	"

Memorandum 6M-3851

~~CONFIDENTIAL~~

UNCLASSIFIED Page 18

~~CONFIDENTIAL~~
UNCLASSIFIED

ASSOCIATE EQUIPMENT (continued)

Document Number	Title	Remarks	LL 6DR#	Required
<u>Power Supplies</u> (continued)				
P-46	"Specification Change to Eliminate the Acknowledge Button," by W. S. Squire, dated 12 August 1954	Concurred 17 August 1954	DR 402	Initial Installation
P-190-2	"Specifications of the Tape Power Supply Unit for AN/FSQ-7"	Concurred 29 June 1955 Supersedes P-190-1	DR 294	"
<u>Air Cooling</u>				
6M-2660	"Cooling Equipment Specifications for AN/FSQ-7 (XD-1)," by W. H. Ayer, 1 February 1954	Released 10 February 1954		Original Specifications
M-2658	"Second Floor Heat Loads for XD-2," W. H. Ayer, 29 January 1954	Released 10 February 1954		"
P-104	"Flexible Tubing for Console Connections of the Equipment Cooling System," H. A. Olsen, 29 October 1954	Concurred 9 November 1954	DR 404	Initial Installation
<u>Misc. Test Equipment</u>				
P-66	"Test Equipment, Tools, and Furniture List for XD-1 Maintenance," 26 October 1954	Concurred 26 October 1954 Released 18 November 1954	DR 405	Original Specifications
P-79	"Spare Parts and Maintenance Test Equipment Storage," by A. Gayle, 1 December 1954	Concurred 1 December 1954	DR 406	Initial Installation

Memorandum 6M-3851

CONFIDENTIAL

CONFIDENTIAL

UNCLASSIFIED
Page 19

ASSOCIATE EQUIPMENT (continued)

<u>Document Number</u>	<u>Title</u>	<u>Remarks</u>	<u>II 6DR#</u>	<u>Required</u>
<u>Misc. Test Equipment</u> (continued)				
P-126	"Supplement to Test Equipment, Tools and Furniture List," by R. Bottomley, dated 20 December 1954	Concurred 20 December 1954		Initial Installation
P-165	"Supplement to the Test Equipment, Tools and Furniture List," R. C. Marden, 2 March 1955	Concurred 2 March 1955	DR 336	"
	"Supplement to the Test Equipment, Tools and Furniture List," R. Bottomley, 23 March 1955	Concurred 23 March 1955		"
P-187	"Changes in Test Equipment, Tools and Furniture," R. C. Marden, 27 April 1955	Concurred 27 April 1955	DR 347	"
P-203	"Supplement to Test Equipment, Tools and Furniture List," R. C. Marden	Concurred 13 July 1955	DR 407	"
<u>Spare Parts</u>				
P-109	"Prototype System Spare Parts Policy Revision," N. H. Decker, 1 December 1954	Concurred 1 December 1954	DR 408	"
<u>GENERAL</u>				
<u>Building</u>				
P-115	First Floor Layout of Building F Dwg. 5001-31007 Revision L	Concurred 6 January 1955		

Memorandum 6M-3851

~~CONFIDENTIAL~~
UNCLASSIFIED

~~CONFIDENTIAL~~
UNCLASSIFIED

GENERAL (continued)

Document Number	Title	Remarks	LL 6DR#	Required
<u>Building</u> (continued)				
P-196	"Concurrence on First Floor Plan Changes," P. Longo	Concurred 13 July 1955	DR 409 410	
P-210	"Dwg. E-58233-11 Second Floor Layout of Building F"	Concurred 25 August 1955		
P-163	"Attached Sketch of Basement Layout Building F"	Concurred 15 March 1955	DR 411	
P-184	"Proposal for the Location of the AXD Frame and AXD MCD on First Floor of Building F," P. Longo, 21 April 1955	Concurred 5 May 1955	DR 348 349	
<u>Operational Furniture for XD-1</u>				
6M-3218	Operational Furniture for AN/FSQ-7 (XD-1)	Released 3 December 1954		Original Specifications
6M-3055-1	Types and Locations of Clocks, Building F			
<u>Basic Circuits</u>				
MRD-131 MD-101	Flip Flop Model A	Released 25 January 1954		"
MRD-130 MD-100	High Speed Gate Tube	Released 25 January 1954		"
MRD-131 MD-111	Pulse Amplifier Model A	Released 2 February 1954		"

Memorandum 6M-3851

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

UNCLASSIFIED

APPROVED FOR PUBLIC RELEASE. CASE 06-1104.

GENERAL (continued)

Document Number	Title	Remarks	LL 6DR#	Required
-----------------	-------	---------	------------	----------

Basic Circuits (continued)

MRD-131 MD-112	Pulse Amplifier Model B	Released 2 February 1954		Original Specifica- tions
MRD-131 MD-110	Register Driver Model A	Released 2 February 1954		"
MRD-131 MD-130	Register Driver Model B	Released 2 February 1954		"
MRD-131 MD-109	D. C. Diode Circuits	Released 2 February 1954		"
MRD-131 MD-115	Standard 5965 CF	Released 26 January 1954		"
MRD-131 MD-131	5998 Power Cathode Follower	Released 26 January 1954		"
(A)MRD-131 MD-108	Flip-Flop Model C	Released 18 May 1954		"
(B)M-2408 by E. W. Boyd				
(A)MRD-131 MD-129	Pulsed Diode Circuits	Released 3 June 1954		"
(B)TR-11				

Memorandum 6M-3851

~~CONFIDENTIAL~~
UNCLASSIFIED

~~CONFIDENTIAL~~

GENERAL (continued)

Document Number	Title	Remarks	LL 6DR# Required
-----------------	-------	---------	---------------------

Basic Circuits (continued)

(A)MRD-131 MD-114	Single Shot Multivibrator Model B	Released 3 June 1954	Original Specifications
(B)TR-16			
(A)MRD-131 MD-106	D. C. Inverter Model A	Released 3 June 1954	"
(B)TR-8			
(A)MRD-131 MD-107	D. C. Level Setter Model A	Released 3 June 1954	"
(B)TR-8			

Memorandum 6M-3851

~~CONFIDENTIAL~~
UNCLASSIFIED

~~CONFIDENTIAL~~
UNCLASSIFIED

~~CONFIDENTIAL~~

DISTRIBUTION LIST

Lincoln: H. E. Anderson
 H. D. Benington
 R. D. Buzzard
 S. H. Dodd
 F. R. Durgin
 R. R. Everett
 R. S. Fallows
 J. W. Forrester
 S. B. Ginsburg
 J. F. Jacobs
 N. T. Jones
 H. J. Kirshner
 J. P. May
 K. E. McVicar
 B. E. Morriss
 J. A. O'Brien
 H. K. Rising
 R. R. Shorey
 N. H. Taylor
 G. E. Valley, Jr.
 C. R. Wieser
 C. A. Zraket
 E. D. Lundberg

IBM: W. L. Batcheler
 P. A. Beeby
 R. J. Blakley
 R. P. Crago
 R. J. Cypser
 W. J. Fitzgerald
 R. A. Imm
 W. L. Jackman
 C. F. Lynch
 R. C. Marden
 R. R. Martin
 C. F. McElwain
 W. McMillan
 J. F. Mills
 R. G. Mork
 R. W. Rocco
 D. C. Ross
 H. D. Ross
 D. B. Thompson
 C. E. Walston
 H. J. White
 J. E. Zollinger
 IBM Subcontracts Office
 (Inputs & displays)

ADES: E. W. Baker
 S. P. Schwartz
 T. L. Albee
 F. Simon

JPO: Col. R. Osgood
 Col. A. R. Shiely

ADC: Lt. Col. W. Holloway

AFCRC: Lt. Col. R. LaMontagne
 W. J. Smith, CRRAA

AMC: R. M. Paulson MRPCNI

Burroughs: H. W. Taylor
 W. F. Ogletree

Signed J. Giordano
 J. Giordano

Signed R. D. Buzzard
 R. D. Buzzard

~~CONFIDENTIAL~~