Memorandum 6M-3851-3

Page 1 of 32

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

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

To:

J. A. O'Brien

From:

J. Giordano

Date:

27 August 1956

Approved:

J. D. Crane

Abstract:

The Master Reference List is a compilation for all the currently active technical specification documents which have received Lincoln-IBM concurrence for AN/FSQ-7, XD-1 design. This list, 6M-3851-3, is a revision of the previous list, 6M-3851-2 and its supplement, and has been brought up to date as of 17 August 1956 inclusive of Concurrence Meeting #69. Also indicated is the status and/or desired installation date of these changes.



This document is issued for internal distribution and use only by and for Lincoin 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 Lincoin Laboratory. The research reported in this document was supported jointly by the Department of the Army, the Department of the Nasy, and the Department of the Air Force under Air Force Contract No. AF 19(122)-458.

6M-3851-3

Page 2

This list is a compilation for all currently active technical specification documents as of 17 August 1956 inclusive of Concurrence Meeting #69.

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

- 1. IBM and/or MIT document numbers;
- 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 "Status and/or Required" column indicating the date when the particular document is to have been implemented.
  - 1. Original Specifications and/or Installed currently as part of the AN/FSQ-7 (XD-1) System;
  - 2. A Required Installation date;
  - As Soon As Possible i.e. to be installed in XD-1 as soon as IBM is prepared to include the change.

JG; aar

Signed Lindano

#### AN/FSQ-7 (XD-1) SPECIFICATIONS

#### CENTRAL COMPUTER

| Document Number  | Title  | Remarks   | LL<br>6DR#  | Status and/or<br>Required Date |        |
|------------------|--|---|-------------|--------------------------------|--------|
| Maintenance Cons | ole  |   |             |                                |        |
| TR-17            | "Maintenance Console", by R. A. Rocket, dated 24 February 1954.  | Released 12 March<br>1954                           | IBM<br>1411 | Installed                      |        |
| P-6              | "Reset Lines", by W. S. Squire, dated 6 May 1954.  | Concurred 1 June<br>1954                            |             | Installed                      |        |
| P=63             | IBM Drawings, "Maintenance Console<br>Panel Design"<br>Drawings: 539-167 - 25 June 1954<br>301-9230 - 30 June 1954 | Concurred 27<br>October 1954.<br>Reference Drawings |             |                                |        |
| P-134-1          | Concurrence on the permanent deferment of the installation of P-134.   | Concurred 17 August<br>1956                         |             |                                |        |
| P-178            | "Deletion of Preset Status Switch for<br>Marginal Checking", by P. J. Sharkett,<br>dated 24 March 1955.            | Concurred 9 April<br>1955                           | DR<br>344** |                                |        |
| P-197            | " Mod. for Maintenance Console Audio<br>Amplifier", by W. J. Canty, dated<br>24 May 1955.                          | Concurred 13 July<br>1955                           | DR<br>367** | Installed                      |        |
| P=240            | "Proposal for the Adding of switches<br>to the Maintenance Console", by<br>P. Longo, dated 10 November 1955.       | Concurred 15<br>November 1955                       | DR<br>520** | As soon as Possible.           |        |
| P-255            | "Location of Telephone Units in the Maintenance Console of XD-1", by P. Longo, dated 9 January 1956.               | Concurred 12<br>January 1956                        | DR<br>587** | Installed                      | Page : |

<sup>\*</sup> Indicates Document

<sup>\*\*</sup> Indicates Concurrence Letter

| Document Number  | Title   | Remarks                      | LL<br>6DR#          | Statu and/or<br>Required Date | 6M3       |
|------------------|---|------------------------------|---------------------|-------------------------------|-----------|
| Program Element  |   |                              |                     |                               | 6M-3851-3 |
| TR-18            | "Program Element", by R. R. Martin,<br>dated 2 March 1954.  | Released 8 February 1954     | IBM<br>425          | Installed                     | ω         |
| P-132            | "Removal of Index Registers from the 'Control Clear' Line ", by N. H. Decker, dated 6 January 1955. | Concurred 19 January<br>1955 | DR<br>311*<br>312** | Installed                     |           |
| P-170            | "Addition of 2 Index Registers", by P. Longo, dated 25 February 1955.                               | Concurred 6 April<br>1955    | DR<br>338**         | Installed                     |           |
| P-171            | "Proposed Change for the Clock<br>Registers", by P. Longo, dated<br>25 February 1955.               | Concurred 7 April 1955       | DR<br>337*          | Installed                     |           |
| Test Memory      |   |                              |                     |                               |           |
| IM-79            | "Proposal for Test Memory", by J. P. Murphy, dated 26 January 1954.                                 | Released 17 February 1954    | IBM<br>398          | Installed                     |           |
| Instruction Cont | trol Frame  |                              |                     |                               |           |
| TR-14            | "Specifications of Instruction Control<br>Frame", by H. J. Kurkjian, dated 26<br>February 1954.     | Released 1 February<br>1954  | IBM<br>416          | Installed                     |           |
| TR-15            | "Instruction Control Frame", by S. L. Thompson, dated 10 February 1954.                             | Released 1 February<br>1954  | IBM<br>493          | Installed                     |           |
| P-59             | "Cyclic Program Control", by R. Douglas, dated 1 September 1954.                                    | Concurred 22 December 1954   | DR<br>317*          | Installed                     | Page      |
| P-106-1          | Concurrence on the permanent deferment of the installation of P-106.                                | Concurred 17 August<br>1956  |                     |                               | ge 4      |

| Document Number  | Title   | Remarks                       | LL<br>6DR#          | Status and/or<br>Required Date                    | 6M-3851-3 |
|------------------|---|-------------------------------|---------------------|---|-----------|
| Instruction Cont | trol Frame (Continued)  |                               |                     |   | 3         |
| P-113            | "Lock Address Counter Modifications",<br>by A. Gayle, dated 22 December 1954.                         | Concurred 22 December 1954    | DR<br>319* & **     | Installed   |           |
| P-113-1          | "Unlocking of the IO Address Counter",<br>by P. Longo, dated 7 November 1955.                         | Concurred 8 December<br>1955  | DR<br>548*<br>568** | Installed   |           |
| Magnetic Tape Sy | rstem   |                               |                     |   |           |
| BP-1             | "Magnetic Tape Proposal", by D. C. Hallock, dated 11 May 1954.  | Concurred 25 May<br>1954      | DR<br>369**         | Installed   |           |
| P-17             | "Magnetic Tape Bit Density", by D. C. Hallock, dated 17 June 1954.                                    | Concurred 29 June<br>1954     | DR<br>370**         | Installed   |           |
| P=33             | "Tape End of Files Proposal", by D. C. Hallock, dated 8 July 1954.                                    | Concurred 8 July<br>1954      | DR<br>371** & *     | Installed   |           |
| P-164            | "Change in Rewind Specs. of M.T.<br>Proposal", by F. A. Glenn, dated<br>28 February 1955.             | Concurred 2 March<br>1955     | DR<br>335**         | Installed   |           |
| P-164-1          | "Change to Magnetic Tape Specifications<br>for XD-1 and XD-2", by R. C. Irwin,<br>dated 27 June 1956. | Concurred 2 August<br>1956    | DR<br>689*<br>693** | Clarification to BP-1.                            |           |
| P-177            | "Magnetic Tape and Reels", by R. A. Imm, dated 9 March 1955.  | Concurred 30 March<br>1955    | DR<br>174*<br>343** | Installed   | т.        |
| P-177-1          | "Magnetic Tape and Reels for XD-1",<br>by R. C. Marden, dated 29 December<br>1955.                    | Concurred 29 December<br>1955 | DR                  | 90 1 May 1956<br>80 1 June 1956<br>50 1 July 1956 |           |

| CENTRAL | COMPUTER | (Continued) |
|---------|----------|-------------|
|---------|----------|-------------|

| Document Number | Title   | Remarks                                    | LL<br>6DR#          | Status and/or<br>Required Date    |      |
|-----------------|---|--|---------------------|-----------------------------------|------|
| Magnetic Tape S | ystem (Continued)   |  |                     |                                   | ů    |
| P-234           | "Proposal for the Addition of Two<br>More Tape Drive Units to XD-1",<br>by P. Longo, dated 3 November 1955.   | Concurred 17 November 1955. One installed. | DR<br>522*<br>539** | Other needed as soon as possible. |      |
| P-299           | "Proposal to Unlock Tape Drive Select<br>Switches on XD-1", by R. C. Irwin,<br>dated 22 May 1956.   | Concurred 7 June<br>1956                   | DR<br>667*<br>674** | Installed                         |      |
| Order Code      |   |  |                     |                                   |      |
| TR-7            | "Programmer's Reference Manual",<br>(Revised 22 December 1953), by<br>C. E. Walston.  | Released 23 December 1953                  | IBM<br>216A         | Installed                         |      |
| H-106           | "Standard Instruction Abbreviations",<br>by W. H. Thomas, dated 11 February<br>1954.  | Concurred 11 February<br>1954              | IBM<br>343          | Installed                         |      |
| H-134           | "Sense, Select, Select Drums and Operate Codes", by H. L. Kurkjian, dated 21 April 1954.  | Concurred 11 February<br>1954              | IBM<br>436          | Installed                         |      |
| P-167           | "Proposed Change for 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<br>1955                 | DR<br>332*<br>333** | Installed                         |      |
| P-185-1         | "PERSELBSN Codes", by N. H. Decker, dated 5 July 1955.  | Concurred 13 July<br>1955                  | DR<br>372*<br>373** | Installed                         | Page |
| P-265-1         | "Testing of the Clock Register for XD-1", by R. C. Irwin, dated 16 April 1956.  | Concurred 3 May<br>1956                    | DR<br>645*<br>660** | September,                        | 6    |



| Document Number  | Title   | Remarks                      | LL<br>6DR#          | Statu and/or<br>Required Date | 6M-385 |
|------------------|---|------------------------------|---------------------|-------------------------------|--------|
| Order Code (Cont | inued)  |                              |                     |                               | 3851-3 |
| P-278            | "Proposal for the Addition of an Operate<br>Instruction to XD-1 to Control Parity<br>Checking When Reading From Tapes or<br>Drums", dated 1 March 1956. | Concurred 1 March<br>1956    | DR<br>633* & **     | Installed                     |        |
| P-279            | "Proposed Addition of Operate Instruction<br>30 Operate Raydist to XD-1", by N. H.<br>Decker, dated 5 March 1956.                                       | Concurred 15 March<br>1956   | DR<br>634**         | Installed                     |        |
| Memory           |   | 1                            |                     |                               |        |
| IM-88            | "Performance Specifications for the AN/FSQ-7<br>Memory Element", by W. H. Papian and<br>W. M. Wittenberg.   | Released 9 April<br>1954     | IBM<br>441          | Installed                     |        |
| P-246            | "Revised Performance Specifications for<br>the AN/FSQ-7 Memory Element", by F. P.<br>Handley, dated 3 November 1955.                                    | Concurred 8 December<br>1955 | DR<br>565*<br>566** | As soon as possible.          |        |
| Selection Contro | 1 Frame   |                              |                     |                               |        |
| TR-24            | "Specification of the Input-Output<br>Control Frame", by H. J. Kurkjian,<br>dated 8 March 1956.   | Released 23 April<br>1954    | IBM<br>483          | Installed                     |        |
| P-10             | "Deletion of Drum Disconnect or Parity<br>Alarm at Selection Control Frame"   | Concurred 8 June<br>1954     | DR<br>374**         | Installed                     |        |
| P-32             | "Proposed Changes to the Selection and IO Control Element for Output System Alarms", by W. S. Squire, dated 7 July 1954.                                | Concurred 15 July<br>1954    | DR<br>376**         | Installed                     | Page 7 |

|   | а | ø. |
|---|---|----|
| - |   | 8  |
| • |   | æ  |
| - | , | ~  |

| Document Number  | Title  | Remarks  | IL<br>6DR#          | Statu and/or Required Date |
|------------------|--|--|---------------------|----------------------------|
| Selection Contro | ol Frame (Continued)   |  |                     | 1-3                        |
| P-60             | "Proposal for 'Operate' Instruction to<br>Turn Off IO Interlock", by R. McGill,<br>dated 6 October 1954.   | Concurred 22 December 1954                                 | DR<br>375**         | Installed                  |
| P-149-1          | "Change in the Selection and I/O Control Element Specifications (Sense Display Interrogation)", by R. S. Trevision and W. S. Squire, dated 13 July 1955. | Concurred 13 July<br>1955                                  | DR<br>292*<br>293** | Installed                  |
| P-200-1          | "Change in Selection Control", by J. J. Coughlin, dated 13 July 1955.  | Concurred 23 September 1955                                |                     | December,<br>1957          |
| Arithmetic Eleme | <u>ent</u>   |  |                     |                            |
| TR-27            | "Specifications of the Arithmetic Ele-<br>ment", by C. P. Baccari, dated 14 April<br>1954.   | Concurred 6 May 1954<br>Released 3 June 1954               | 1BM<br>476          | Installed                  |
| P-91             | "XD-1 Parity Count and Parity Check<br>Controls", by H. Kurkjian, dated<br>20 September 1954.  | Concurred by letter to J. F. Mills dated 22 December 1954. | DR<br>320**         | Installed                  |
| Card Machines    |  |  |                     |                            |
| TR-25            | "Card Machine System Operation", by F. Glenn, R. C. Castle and R. A. Imm, dated 9 July 1954.   | Concurred 4 April<br>1954                                  | IBM<br>574          | Installed                  |
| P=7              | "Change in Card Machine Specifications",<br>by R. J. Cypser, dated 15 June 1954.   | Concurred 15 June<br>1954                                  | DR<br>377**         | Installed                  |
| P-175            | "Revision of the 723 Punch", by R. J. Paddock, dated 31 March 1955.  | Concurred 23 September 1955                                | DR<br>459**         | Installed $\infty$         |



|                 |   |  | LL                  | Status and/or |
|-----------------|---|--|---------------------|---------------|
| Document Number | Title   | Remarks  | 6DR#                | Required Date |
| Card Machines   | (Continued)   |  |                     |               |
| P-181           | "Proposed Changes in the Card Machines",<br>by R. W. Bottomley and S. L. Thompson.  | Concurred 19 May<br>1955   | DR<br>271*<br>643** | Installed     |
| P-194           | "Standby Card Machines for XD-1", by R. J. Paddock, dated 21 June 1955.   | Concurred 23 June<br>1955  |                     | Installed     |
| P-194-1         | "Cancel Concurrence Document P-194",<br>by R. J. Paddock, dated 18 October<br>1955.                                       | Concurred 27 October<br>1955. Deletion of<br>Standby Printer and<br>Punch. | DR<br>498**         |               |
| Telephone Main  | tenance Intercom System   |  |                     |               |
| P-72            | "Proposed Prototype Maintenance Inter-<br>communications System Specifications",<br>by A. Gayle, dated 30 September 1954. | Released 31 December 1954  | DR<br>379**         | Installed     |
| P-81            | "Modifications of XD-1 Maintenance<br>Intercom Specifications", by H. J.<br>Kirshner, dated 18 December 1954.             | Concurred 18 December 1954   | DR<br>380**         | Installed     |
| P-1514          | 6M-3000. Supplement 3, 6, and 10, by H. Kirshner.   | Concurred 25 March<br>1955   |                     | Installed     |
| P-267           | "Phone at the IBM Maintenance Super-<br>visor's Desk in Building F at Lexington,<br>by P. Longo, dated 1 February 1956.   | Concurred 1 February<br>1956   | DR<br>609**         | Installed     |

| Document Number | Title  | Remarks                        | LL<br>6DR#          | Status and/or Required Date |
|-----------------|--|--------------------------------|---------------------|-----------------------------|
| General Changes | to Central Computer  |                                |                     | ů                           |
| IM-64           | "Marginal Checking System for XD-1",<br>by L. R. Walters, dated 21 January<br>1954.                | Released 9 February<br>1954    | IBM<br>307          | Installed                   |
| P-5             | "Calculator Control of Marginal Check-<br>ing", by P. Sharkitt, dated 27 April<br>1954.            | Concurred 8 June<br>1954       | DR<br>381*          | Installed                   |
| P-183           | "Proposed Changes to CC by the Addition of an AXD System", by P. Longo, dated 20 April 1955.       | Concurred 3 May<br>1955        | DR<br>350*<br>351** | Installed                   |
| P-192-3         | Concurrence on the permanent deferment of the installation of the proposals, P-192.                | Concurred 17<br>August 1956.   |                     |                             |
| PS-248          | "Proposal for the Addition of an 'Inactivity Alarm' to XD-1", by P. Longo, dated 21 December 1955. | Concurred 29<br>December 1955. | DR<br>583*<br>584** | Installed                   |



#### DRUM SYSTEM

| Document Number | Title   | Remarks  | LL<br>6DR#          | Status and/or & Required Date |
|-----------------|---|--|---------------------|-------------------------------|
| P-142-1         | "IM-70-2 Drum System Specifications",<br>by N. H. Decker, dated 24 May 1955.      | Supersedes all Previous Documents. Concurred 23 June 1955. | DR<br>382*<br>686** | Installed                     |
| P-142-2         | "Changes to Drum System Specifications",<br>by P. Longo, dated 28 September 1955. | Concurred 11 October<br>1955                               |                     | Installed                     |
| P-142-3         | "Changes to Drum System Specifications",<br>by P. Longo, dated 10 October 1955.   | Concurred 14 October<br>1955                               |                     | Installed                     |
| P-142-4         | "Changes to Drum System Specifications",<br>by P. Longo, dated 17 October 1955.   | Concurred 24 October<br>1955                               |                     | Installed                     |

#### INPUT SYSTEM

| Document Number<br>Manual Inputs | Title  | Remarks   | LL<br>6DR#          | Status and/or<br>Required Date | M-3851-3 |
|----------------------------------|--|---|---------------------|--------------------------------|----------|
| Manual Inputs                    | Frame  |   |                     |                                | ယံ       |
| IM-68                            | "The Manual Inputs System", by W. M. McMillan, dated 25 January 1954.        | Concurred 26 January<br>1954<br>Released 2 February<br>1954   | IBM<br>339          | Installed                      |          |
| TR-13                            | "Modified 026", by R. W. Wilser, dated 26 February 1954.                     | Concurred 26 January<br>1954<br>Released 2 February<br>1954   | IBM<br>369          | Installed                      |          |
| P-37                             | "Power Source for Keyboard Inputs",<br>by W. S. Squire, dated 12 July 1954.  | Concurred 15 July<br>1954                                     | DR<br>383**         | Installed                      |          |
| Card Reader Spe                  | cifications  |   |                     |                                |          |
| H-87                             | "026 Card Reader Specifications", by W. M. McMillan, dated 16 December 1953. | Concurred 29 January<br>1954.<br>Released 3 February<br>1954. | IBM<br>266          | Installed                      |          |
| н-96                             | "056 Card Verifier-Reader Specifications", by R. E. Wilser.                  | Concurred 29 January<br>1954<br>Released 3 February<br>1954.  | IBM<br>301          | Installed                      |          |
| TR-13                            | "Modified 026", by R. E. Wilser, dated 26 February 1954.                     | Concurred 26 January<br>1954.<br>Released 2 February<br>1954. | IBM<br>369          | Installed                      | Page     |
| P-193                            | ".009 Card Stock for Binary Punching and Reading"                            | Concurred 23 June<br>1955                                     | DR<br>303*<br>284** |                                | e 12     |

| INPUT SYSTEM (Continued) |  |  |             | W9                            |
|--------------------------|--|--|-------------|-------------------------------|
| Document Number          | Title  | Remarks  | LL<br>6DR#  | Status and/or & Required Date |
| Warning Lights           |  |  |             | ŭ                             |
| P-13                     | "Proposed Specifications of the Operation of the Warning Light System", by W. S. Squire, dated 10 June 1954.             | Concurred 24 June<br>1954                        | DR<br>386** | Installed                     |
| P-34                     | "New Proposal for Warning Light System",<br>by H. J. Kurkjian, dated 2 July 1954.  | Concurred 15 July<br>1954                        | DR<br>385** | Installed                     |
| P-49                     | "Warning Light Frame Specifications",<br>by W. S. Squire, dated 23 July 1954.  | Concurred 18 August<br>1954                      | DR<br>387** | Installed                     |
| P-69                     | "Concurrence Letter on Changes in the<br>XD-1 Warning Lights Specifications",<br>by R. P. Mayer, dated 18 November 1954. | Concurred 18 November 1954. Superseded by P-209. | DR<br>388** | See P-209                     |
| Phone Line Recor         | der  |  |             |                               |
| BP-2                     | "Concurrence Request for Phone Line<br>Data Recorder", by M. J. Raffensperger,<br>dated 12 May 1954.                     | Concurred 24 May<br>1954                         | DR<br>384** | Installed                     |
| Automatic Inputs         | !  |  |             |                               |
| GFI Consoles             |  |  |             |                               |
| P-54                     | "Modified SDV Radar Input Element<br>Proposal for XD-1", by A. P. Arneth.  | Concurred 8 July<br>1954                         | DR<br>389** | Installed                     |
| P-138                    | 6M-3146-1, "Proposal for Mapping Material and Utility Holder", by M. Feldstein, dated 22 March 1955.                     | Concurred 22 March<br>1955                       | DR<br>315** | Installed &                   |

INPUT SYSTEM (Continued)

| INFOT SISTEM (Continued)           |   |   |                     |                                   |
|------------------------------------|---|---|---------------------|-----------------------------------|
| Document Number<br>Automatic Input | Title (Continued)   | Remarks   | LL<br>6DR#          | Statu and/or Required Date        |
| GFI Consoles (                     | Continued)  |   |                     |                                   |
| P-138-1                            | "Supplement to Mapping Material Specifications", (6M-3146-1) for XD-1, by R. J. Paddock, dated 23 January 1956. | Concurred 16 February<br>1956                     | DR<br>622*<br>610** | As soon as possible.              |
| P-138-2                            | "Change in Supplement to Mapping Material<br>Specifications for XD-1", by R. W. Averyt,<br>dated 29 June 1956.  | Concurred 2 August<br>1956                        | DR<br>690*<br>692** | Clarification to P-138-1.         |
| GFI Mapper Count                   | er Frame  |   |                     |                                   |
| BP-20                              | "Proposed Radar Input Counter Section",<br>by M. J. Raffensperger, dated 18 March<br>1954.<br>Drawing - 3028008 | Released 30 March 1954.                           | DR<br>390*          | Installed                         |
| P-188-2                            | "GFI Monitor Equipment for XD-1 and Production Machines", by J. J. Coughlin, dated 24 May 1955.                 | Concurred 7 June<br>1955                          | DR<br>296*<br>297** | To be determined at a later date. |
| P-188-3                            | "GFI Monitor Specifications", by W. S. Squire   | Concurred 13 July<br>1955                         | DR<br>295**         |                                   |
| P-304-1                            | "LRI and GFI Site Identity Codes",<br>dated 17 August 1956.   | Concurred 17 August<br>1956. Supersedes<br>P-304. | DR<br>685           | 1 September<br>1956               |
| Test Pattern Ger                   | erator  |   |                     |                                   |

Concurred 29 March

1956

DR 636\*

642\*\*

December, 1957

P-220-3

"Test Pattern Generator Specifications

for XD-1", by J. J. Coughlin, dated 22 February 1956.

| INPUT SYSTEM (C | ontinued) |
|-----------------|-----------|
|-----------------|-----------|

|                  |  |  |                     | <u>\$</u>                     |
|------------------|--|--|---------------------|-------------------------------|
| Document Number  | Title  | Remarks  | LL<br>6DR#          | Status and/or & Required Date |
| Automatic Inputs | (Continued)  |  |                     | [,                            |
| Crosstelling Inp | nit  |  |                     |                               |
| 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<br>1954                                     | DR<br>391**         | Installed                     |
| P-75             | "Change to Crosstelling Input Specifications", by W. S. Squire, dated 13 December 1954.                            | Concurred 13<br>December 1954                                | DR<br>392**         | Installed                     |
| <b>P-1</b> 99    | "Change in Crosstell System", by J. J. Coughlin, dated 7 July 1955.  | Concurred 20<br>September 1955                               | DR<br>424*<br>428** | August, 1957                  |
| P-199-1          | "Crosstell Parity Disable for XD-1, XD-2", by J. J. Coughlin, dated 30 September 1955.                             | Concurred 25<br>October 1955                                 | DR<br>479*<br>506** | August, 1957                  |
| P-199-2          | "Crosstell Parity Disable for XD-1 and XD-2", by R. W. Averyt, dated 25 May 1956.                                  | Concurred 14<br>June 1956                                    | DR<br>670*<br>676** | August, 1957                  |
| P-291            | "XT Word Changes for XD-1", by J. J. Coughlin, dated 13 February 1956.   | Concurred 24<br>April 1956                                   | DR<br>651*<br>648** | Installed                     |
| IRI Frame        |  |  |                     |                               |
| P-47             | "Revised Performance Specifications for Miscellaneous Radar Input", by W. S. Squire, dated 13 July 1954.           | Concurred 17<br>August 1954<br>Released 24<br>September 1954 | DR<br>393*          | Installed Page                |

| INPUT SYSTEM (Continued)         |   |                              |                                  |                                | 0         |
|----------------------------------|---|------------------------------|----------------------------------|--------------------------------|-----------|
| Document Number Automatic Inputs | Title (Continued)   | Remarks                      | LL<br>6DR#                       | Status and/or<br>Required Date | 6M-3851-3 |
| LRI Frame (Con                   |   |                              |                                  |                                | w         |
| P-124                            | "Changes to LRI and Output System",<br>by R. C. Marden, dated 24 March<br>1955. (Affects P-147 and P-52)  | Concurred 24 March<br>1955   | DR<br>394* &**                   | Installed                      |           |
| P-150                            | "Proposal for Modifications of XD-1<br>LRI Equipment to Provide for Acceptance<br>of Phone-Line Data from South Truro",<br>by H. J. White, dated 8 April 1955.<br>(Added Scope) | Concurred 15 April<br>1955   | DR<br>331**                      | Installed                      |           |
| P-202                            | "Change to the IRI System", by J. J. Coughlin, dated 7 July 1955.   | Concurred 20 September 1955  | DR<br>425*<br>429 <del>*</del> * | December, 1957                 |           |
| P-229-1                          | "IRI Parity Rate Counter", by R. J. Paddock and W. J. Canty, dated 11 November 1955.  | Concurred 2 December<br>1955 | DR<br>536*<br>538**              | Installed                      |           |
| P-230                            | "IRI Parity Rate Alarm", by R. J. Paddock and W. J. Canty.  | Concurred 2 December<br>1955 | DR<br>478*<br>549**              | Installed                      |           |
| P-275                            | "Changes in the IRI Frame for XD-1",<br>by R. W. Averyt, dated 21 February<br>1956.   | Concurred 15 March<br>1956   | DR<br>626*<br>630**              | As soon as possible.           |           |
| P-290                            | "IRI Word Changes for XD-1", by J. J. Coughlin, dated 13 February 1956.   | Concurred 24 April<br>1956   | DR<br>650*<br>647**              | Installed                      | Page 16   |

#### INPUT SYSTEM (Continued)

| Document Number<br>Automatic Inputs | Title (Continued)  | Remarks   | LL<br>6DR#          | Statu and/or Statu Required Date |
|-------------------------------------|--|---|---------------------|----------------------------------|
| LRI Frame (Con                      | tinued)  |   |                     |                                  |
| P-301                               | "Modification of LRI Parity Checking<br>Circuitry for XD-1", by R. W. Averyt,<br>dated 18 June 1956. | Concurred 28 June<br>1956                         | DR<br>682*<br>684** | As soon as possible.             |
| P-304-1                             | "LRI and GFI Site Identity Codes",<br>dated 17 August 1956.  | Concurred 17 August<br>1956. Supersedes<br>P-304. | DR - 685**          | 1 September<br>1956.             |
| LRI Monitor Spec                    | ifications   |   |                     |                                  |
| P-189                               | "Installation of LRI Monitor Breadboard Equipment in XD-1", by J. J. Coughlin, dated 24 August 1955. | Concurred 8 August<br>1955                        | DR<br>355*<br>356** | Installed                        |
| P-189-1                             | "LRI Monitor for XD-1", by P. Longo, dated 15 February 1956.   | Concurred 15 March                                | DR<br>628**         | September,<br>1957               |
| P-189-2                             | Change to P-189-1 "LRI Monitor for XD-1", dated 16 April 1956.                                       | Concurred 16 April                                | DR<br>644**         | Corrects<br>P-189-1              |
| P-233                               | "LRI Monitor Console for XD-1", by P. Longo, dated 20 October 1955.                                  | Concurred 20 October<br>1955                      | DR<br>526* & **     | Installed                        |
| P-233-1                             | "Change IRI Monitor Consoles for XD-1",<br>by R. W. Averyt, dated 17 May 1956.                       | Concurred 14 June<br>1956                         | DR<br>672*<br>675** | Clarification to P-233.          |

#### INPUT SYSTEM (Continued)

| Document Number<br>Automatic Input |  | Remarks                       | LL<br>6DR#          | Status and/or Required Date |
|------------------------------------|--|-------------------------------|---------------------|-----------------------------|
| DDR & DDT Equ                      | ipment   |                               |                     |                             |
| P-216-1                            | "Input and Output Converters", by J. J. Coughlin, dated 12 December 1955.                | Concurred 16 February<br>1956 | DR<br>601*<br>659** | December, 1957              |
| P-216-2                            | Supplement to "Input and Output Converters for XD-1", by P. Longo, dated 15 May 1956.    | Concurred 14 June<br>1956     | DR<br>671*<br>677** | December, 1957              |
| P=218                              | "Production Type DDR & DDT Equipment",<br>by J. J. Coughlin, dated 15 September<br>1955. | Concurred 8 December<br>1955  | DR<br>570*<br>571** |                             |

#### OUTPUT SYSTEM

| Document Numbers | Title   | Remarks   | LL<br>6DR#      | Status and/or L<br>Required Date |
|------------------|---|---|-----------------|----------------------------------|
| Bomarc           |   |   |                 | Ĩ.                               |
| M-2848-1         | "Proposal for Communications between AN/FSQ-7 and F-99 (Bomarc) Bases for Weapons Control", by J. F. Jacobs and J. Arnow.   | Original Specifications. Released by TIR 1-17 on 12 September 1954. |                 |                                  |
| Output Frame     |   |   |                 |                                  |
| IM-77            | "Output Storage Element", by L. H.<br>Lee (Rewrite of "Proposed Core<br>Vacuum Tube Output System", by H.<br>K. Rising and R. G. Counihan).                       | Released 3 June<br>1954   | IBM<br>466      | Installed                        |
| M-2697           | "Output System Performance Specifications", dated 1 March 1954.   | Released 3 March<br>1954  |                 | Installed                        |
| M-2863           | "Proposed Changes to Output System Performance Specifications", by R. C. Hopkins, dated 11 June 1954.   | Concurred 21 July<br>1954   |                 | Installed                        |
| P=31             | "Proposed Changes to the Output System Alarm Specifications", by W. S. Squire, dated 7 July 1954.   | Concurred 15 July<br>1954   | DR<br>395*      | Installed                        |
| P=43             | "Teletype Monitor Proposal Letter", by<br>A. Gayle, dated 22 July 1954.   | Concurred 13 September 1954   | DR<br>398*      |                                  |
| P=52             | "A Proposal for Testing the Output<br>System with the MRI and Crosstell<br>Input for XD-1 and XD-2", by P. W.<br>Rocco and R. F. Murray, dated 19<br>August 1954. | Concurred 3 November 1954   | DR<br>396* & ** | Installed                        |

#### OUTPUT SYSTEM (Continued)

|                  | 100000000000000000000000000000000000000   |  |                     |  |
|------------------|---|--|---------------------|--|
| Document Numbers |   | Remarks  | LL<br>6DR#          | Status and/or property in the status and property in t |
| Output Frame (Co | ontinued)   |  |                     | 85   |
| P-52-1           | "Loop Test Specifications for XD-1 and XD-2", by R. W. Averyt, dated 24 May 1956.                             | Concurred 28 June<br>1956  | DR<br>681*<br>691** | Clarification to P-52.   |
| P-73             | "Proposed Changes in the Output System<br>Specifications M-2697", by W. S. Squire,<br>dated 30 November 1954. | Concurred 6 December<br>1954   |                     | Installed  |
| P-180            | "Increase of Teletype Lines for the Output System", by R. C. Marden, dated 4 April 1956.                      | Concurred 14 June<br>1956  | DR<br>345*<br>346** | Installed  |
| P-180-1          | "Increase of Teletype Lines for the Output System", by J. J. Coughlin, dated 22 August 1955.                  | Concurred 20 September 1955. (An increase of Teletype Lines to a Total of 25.) | DR<br>427**<br>415* | Installed  |
| P-191            | "Proposed Change to the Output Performance Specifications M-2697", by J. J. Coughlin, dated 8 June 1955.      | Concurred 29 June 1955.  | DR<br>397*          | Installed  |
| P-201            | "Change in the Output System", by J. J. Coughlin, dated 12 July 1955.   | Concurred 23 September 1955  | DR<br>462**<br>433* | September,   |
| P-236            | "Output Storage Parity Alarm Check<br>for XD-1", by J. J. Coughlin, dated<br>23 October 1955.                 | Concurred 8 December<br>1955   | DR<br>547*<br>567** | September,<br>1957   |
| P-259            | "G/G Message Rejection for XD-1", by<br>J. J. Coughlin, dated 17 February<br>1956.                            | Concurred 15 March<br>1956   | DR<br>627*<br>629** | Clarification<br>to Original   |
| P-293            | "G/G Output Phone Line Message Bit<br>Arrangement", by J. J. Coughlin,<br>dated 15 February 1956.             | Concurred 24 April<br>1956   | DR<br>649*<br>652** | Specifications &   |

#### DISPLAY SYSTEM

| Document Number   | Title   | Remarks  | LL<br>6DR#        | Status and/or % Required Date |
|-------------------|---|--|-------------------|-------------------------------|
| Area Discriminato | or  |  |                   | చి                            |
| IM-72             | "AN/FSQ-7 Area Discriminator Specifications<br>for XD-1 and XD-2", by R. C. Marden, in-<br>cluding change of 3 April 1954.  | Concurred 18 February<br>1954<br>Released 1 March 1954 | IBM<br>345<br>378 | Installed                     |
| IM-78             | "Specifications for Light Gun and Area Discriminator Control and Information Signals", by W. S. Squire, dated 10 March 1954.  | No Concurrence<br>For Information Only                 | IBM<br>376        | e e                           |
| Display System    |   |  |                   |                               |
| M-2877            | "Specifications for AN/FSQ-7 (XD-1)<br>Display System", by C. L. Corderman<br>and R. S. Fallows, dated 27 July 1954.  | Concurred 18 August<br>1954                            |                   | Installed                     |
| P-77              | 6M-2877, Supplement 1, by R. H. Gerhardt, dated 12 November 1954.   | Concurred 15 December 1954                             |                   | Installed                     |
| 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. H. Gerhardt, dated 23 January 1955. | Concurred 30 March<br>1955                             | DR<br>314**       | Installed                     |
| P-151             | 6M-2877, Supplement 5, by C. Corderman, dated 2h January 1955.  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<br>318**       | Installed 2                   |

#### DISPLAY SYSTEM (Continued)

|                   |  |  |                     |                                | 2    |
|-------------------|--|--|---------------------|--------------------------------|------|
| Document Number   | Title  | Remarks  | LL<br>6DR#          | Status and/or<br>Required Date | -385 |
| Display System (C | ontinued)  |  |                     |                                | 5    |
| P-205-1           | "Proposed Changes in Manual Input<br>Cabling Between Consoles and Frame 28",<br>by R. C. Marden, dated 15 August 1955. | Concurred 1 September 1955.  | DR<br>412* & **     | Installed                      |      |
| P-207             | "XD-1 Console Equipment and Label Layouts",<br>by H. K. Rising and R. D. Buzzard, dated<br>1 June 1955.                | Concurred 21 July 1955<br>Applicable sections<br>superseded by P-207-4.    | DR<br>304**         | Installed                      |      |
| P-207-1           | Correction to 6M-3583-1.   | Concurred 29 September 1955  | DR<br>463**         | Clarification to P-207.        |      |
| P-207-2           | "Change to XD-1 Console Equipment and<br>Label Layouts", by R. C. Marden, dated<br>19 January 1956.                    | Concurred 19 January<br>1956   | DR<br>591**         | Clarification to P-207.        |      |
| P-207-3           | "Concurrence on Change to XD-1 Console<br>Equipment and Label Layout", dated<br>28 June 1956.                          | Concurred 28 June<br>1956  | DR<br>694**         | Clarification to P-207.        |      |
| P-207-l4          | XD-1 Console Equipment and Label Layout<br>Memorandum 6M-3583-3, 6M-3584-2, 6M-3585-2,<br>6M-3586-2, 6M-3587-2.        | Concurred 2 August<br>1956. Supersedes<br>Applicable Sections<br>of P-207. | DR<br>695**         | As soon as possible.           | ٠    |
| P-208             | "Proposed Changes in the Manual Input<br>Interconnection Unit (Frame 28) for<br>XD-1"                                  | Concurred 1 September 1955   | DR<br>361*<br>414** | Installed                      |      |
| P-209             | "Proposed Warning Light Interconnection<br>Unit for XD-1", by R. C. Marden, dated<br>31 August 1955.                   | Concurred 1 September<br>1955  | DR<br>413* & **     | Installed                      | Page |
| P=209=1           | "Location of Warring Light Intercon-<br>nection Unit", by P. Longo, dated<br>20 September 1955.                        | Concurred 20 September 1955.   | DR<br>426* & **     | Installed                      | 22   |

#### DISPLAY SYSTEM (Continued)

| Document Number<br>Display System | Title (Continued)   | Remarks                        | LL<br>6DR#          | Statu and/or<br>Required Date | M-3851-3 |
|-----------------------------------|---|--------------------------------|---------------------|-------------------------------|----------|
| P=214                             | "Changes in Warning Light Cabling for XD-1", by R. C. Marden and R. E. Wagner, dated 12 September 1955.         | Concurrence covered in P-207.  | DR<br>464*<br>465** | Installed                     | w        |
| P=238                             | 6M-2877, Supplement 8, *Changes to Display Specifications*, dated 28 September 1955.                            | Concurred 14 October 1955      |                     | Installed                     |          |
| P=256                             | "Supplement to the Display System Specifications (6M-2877) for XD-1", by R. J. Paddock, dated 28 December 1955. | Concurred 12 January<br>1956   | DR<br>579*<br>588** | 1 September<br>1956           |          |
| P=261                             | 6M-2877, Supplement 9, "Changes to Display Specifications for XD-1", by R. H. Gerhardt, dated 26 October 1955.  | Concurred 29 December 1955     | DR<br>581**         | Installed                     |          |
| P-271                             | "Supplement to the Display System Specifications (6M-2877) for XD-1", by R. J. Paddock, dated 31 January 1956.  | Concurred 9 February<br>1956   | DR<br>611*<br>608** | 1 September<br>1956           |          |
| P-286                             | 6M-2877, Supplement 6, Addendum #1  | Concurrence 9 February<br>1955 | DR<br>604**         | Installed                     |          |
| Display Consoles                  | <u>1</u>  |                                |                     |                               |          |
| H-139A                            | "Design Specifications, Display Console<br>for AN/FSQ-7, XD-1 and XD-2", by R. G.<br>Mork, dated 21 June 1954.  | Released 8 August<br>1954      | DR<br>127*          | Installed                     |          |
| P=36-1                            | Changes to H-139A, dated 21 June 1954.  | Concurred September<br>1954    | DR<br>399**         | Installed                     | Pa       |
| P=36=2                            | Changes to H=139A   | Concurred 11 October<br>1955   |                     | Installed                     | Page 23  |
|                                   |   |                                |                     |                               |          |

|                  | DISPLAY SYSTEM (Continued) |                  |                      |            |     |
|------------------|----------------------------|------------------|----------------------|------------|-----|
| Document Number  | Title                      |                  | Remarks              | LL<br>6DR# | Sta |
| Display Consoles | (Continued)                |                  |                      |            |     |
| P-36-3           | Concurrence on Modifi      | cation of H_139A | Concurred 19 January | שת         |     |

| Document Number   | Title   | Remarks                       | LL<br>6DR#          | Status and/or &<br>Required Date 5  |
|-------------------|---|-------------------------------|---------------------|---|
| Display Consoles  | (Continued)   |                               |                     | ů   |
| P-36-3            | Concurrence on Modification of H-139A   | Concurred 19 January<br>1956  | DR<br>586**         | Installed in one location.  |
| P-36-7            | Concurrence on the permanent deferment of the completion of the change P-36-3.  | Concurred 17 August<br>1956   |                     |   |
| P-36-4            | "Change of the 19 Inch Charactron in the Situation Display Consoles for XD-1", by R. C. Marden, dated 19 January 1956.                        | Concurred 19 January<br>1956  | DR<br>598**         | P-14 tubes will<br>be used to re-<br>place P-7 tubes<br>when present<br>P-7 supply is<br>exhausted. |
| P=36-5            | Changes in H-139A   | Concurred 16 February<br>1956 | DR<br>603**         | Clarification<br>Document.  |
| P=243             | 6M-3995, "Visor for Situation Display Console", by E. L. Smiley, dated 16 November 1955.  | Concurred 17 November 1955    | DR<br>541**         | Installed   |
| P-270             | "Proposed Change in the DD Filters for<br>the XD-1 Situation and Auxiliary Dis-<br>play Consoles", by R. C. Marden, dated<br>6 February 1956. | Concurred 9 February<br>1956  | DR<br>605*<br>606** | Installed   |
| Auxiliary Console | !   |                               |                     |   |
| 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<br>1955     | DR<br>274*<br>262** | Installed g   |

|         | <del></del> -    |
|---------|------------------|
| P-127-1 | "Auxiliary Conso |
|         | VD_1 VD_2 and    |

dated 6 April 1955.

#### DISPLAY SYSTEM (Continued)

| Document Number |  | Remarks                       | LL<br>6DR#          | Statu and/or & Required Date |
|-----------------|--|-------------------------------|---------------------|------------------------------|
| P=127=2         |  | Concurred 11 August<br>1955   | DR<br>416**         | دُّ<br>Installed             |
| P-127-3         | Change to AN/FSQ-7 Auxiliary Console<br>Specifications for XD-1 and XD-2, and<br>Production Machine.               | Concurred 23 September 1955   | DR<br>461*<br>550** | Installed in one location.   |
| P-127-5         | Concurrence on the permanent deferment of the completion of the change P-127-3.                                    | Concurrence 17 August<br>1956 |                     |                              |
| Side Frames     |  |                               |                     |                              |
| 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<br>1955    | DR<br>227*<br>253** | Installed                    |
| P-156-2         | "Supplement 2 to Display Console Side Frames for XD-1", dated 6 June 1955.   | Concurred 8 June<br>1955      | DR<br>264*<br>270** | Installed                    |
| Large Board D   | isplay   |                               |                     |                              |
| P-173           | "Proposed Specifications for Large Board Display", 6M-3439, by R. D. Buzzard and N. T. Jones, dated 21 April 1955. | Concurred 8 June<br>1955      | DR<br>285**         | Installed                    |
| P-173-1         | "6M-4017, Specifications for Utilizing the<br>Kelvin & Hughes Rapid Processing Photo-<br>graphic Projector System" | Concurred 15 December 1955    | DR<br>575**         | Installed                    |

#### DISPLAY SYSTEM (Continued)

| Document Number | Title   | Remarks                      | LL<br>6DR#          | Status and/or Required Date |
|-----------------|---|------------------------------|---------------------|-----------------------------|
| Command Post    |   |                              |                     |                             |
| P-182-4         | "Command Post DD Desk Specifications<br>for XD-1", by R. C. Marden, dated<br>16 September 1955.                     | Concurred 23 September 1955  | DR<br>460**         | Installed                   |
| P-182-5         | Supplement to Command Post DD Desk<br>Specifications, by R. C. Marden,<br>dated 12 December 1955.                   | Concurred 15 December 1955   | DR<br>573**         | Installed                   |
| P-186-6         | "Supplement to Command Post Digital<br>Display Desk Specifications for XD-1",<br>by H. P. Hempel, dated 1 May 1956. | Concurred 17 May<br>1956     | DR<br>655*<br>657** | Clarification to P-182-5.   |
| P=237           | "6M-3929, Proposed Specifications for<br>Status Boards for the XD-1 Command<br>Post", by R. D. Buzzard.             | Concurred 27 October<br>1955 | DR<br>507**         | Installed                   |

#### ASSOCIATE EQUIPMENT

| ocument Number | Title  | Remarks                     | LL<br>6DR#          | Statue and/or<br>Required Date |
|----------------|--|-----------------------------|---------------------|--------------------------------|
| ower Supplies  |  |                             |                     |                                |
| IM-65          | "Power System for XD-1 Installation",<br>by P. A. Beeby and J. J. Gano, dated<br>26 January 1954.                      | Released19 March<br>1954    | IBM<br>330          | Installed                      |
| P-46           | "Specification Change to Eliminate the Acknowledge Button", by W. S. Squire, dated 12 August 1954.                     | Concurred 17 August<br>1954 | DR<br>402**         | Installed                      |
| P-51           | "Proposal for SDV Radar Input MCD<br>Frame for XD-1", by G. H. Halgas,<br>dated 13 August 1954.                        | Concurred 31 August<br>1954 | DR<br>403**         | Installed                      |
| P-86           | "Deviation from IM-65", by R. F. Keating,<br>dated 14 September 1954.  | Concurred 21 September 1954 | DR<br>401**         | Installed                      |
| P-117          | "Central Computer MCD Frame", by N. H. Decker, dated 19 January 1955.  | Concurred 5 April<br>1955   | DR<br>353*<br>354** | Installed                      |
| P-118          | "Proposed Drum MCD Specifications for<br>the XD-1 and XD-2", by N. H. Decker,<br>dated 11 January 1955.                | Concurred 3 April<br>1955   | DR<br>342*<br>341** | Installed                      |
| P-120          | "Proposed Specifications for Output<br>Crosstell and LRI MCD Frame", by<br>N. H. Decker, dated 27 January 1955.        | Concurred 5 April<br>1955   | DR<br>340*<br>357** | Installed                      |
| P-121          | "Proposed Display Console CB Frame<br>Specifications for XD-1 and XD-2",<br>by N. H. Decker, dated 10 January<br>1955. | Concurred 5 April<br>1955   | DR<br>339*<br>358** | Installed                      |

#### ASSOCIATE EQUIPMENT (Continued)

| Document   | Number      | Title  | Remarks  | LL<br>6DR#          | Status and/or Required Date |
|------------|-------------|--|--|---------------------|-----------------------------|
| rower 50   | ipplies (CC | on cinued)   |  |                     | Ĭ.                          |
| P-         | -122        | "Display MI-WL MCD Frame", by N. H. Decker, dated 31 January 1955.   | Concurred 5 April<br>1955                        | DR<br>359*<br>360** | Installed                   |
| P-         | -143        | "Proposal on Specifications for the Auxiliary Drum MCD Unit", by N. H. Decker, dated 3 March 1955.                           | Concurred 29 April<br>1955                       | DR<br>313**<br>139* | Installed                   |
| P-         | -190-2      | "Specifications of the Tape Power<br>Supply Unit for AN/FSQ-7"   | Concurred 29 June<br>1955<br>Supersedes P-190-1. | DR<br>294**         | Installed                   |
| P-         | -213        | "Change in Method of Sequencing", by<br>P. Longo, dated 12 September 1955.   | Concurred 23 September 1955                      | DR<br>508**         | September,<br>1957          |
| P-         | -222        | "Proposed Expansion of the Marginal<br>Checking System for the Tape Element",<br>by N. H. Decker, dated 27 November<br>1955. | Concurred 27 November 1955                       | DR<br>529*<br>537** | September,<br>1957          |
| P-         | -235        | "Proposal for Placing the Spare Amplidyne<br>for XD-1 in a Standby Status", by P.<br>Longo, dated 31 October 1955.           | Concurred 17 November 1955                       | DR<br>523*<br>540** | As soon as possible.        |
| Air Cool   | Ling        |  |  |                     |                             |
| 6 <u>M</u> | 1-2660      | "Cooling Equipment Specifications for AN/FSQ-7 (XD-1)", by W. H. Ayer, dated 1 February 1954.                                | Released 10 February<br>1954                     |                     | Installed                   |
| M-         | -2658       | "Second Floor Heat Loads for XD-1",<br>by W. H. Ayer, dated 29 January 1954.   | Released 10 February                             |                     | Installed %                 |

#### ASSOCIATE EQUIPMENT (Continued)

| Document Number Air Cooling (Cont | Title (inued)   | Remarks  | LL<br>6DR#   | Status and/or Required Date |
|-----------------------------------|---|--|--------------|-----------------------------|
| P=10l4                            | "Flexible Tubing for Console Connections of the Equipment Cooling System", by H. A. Olsen, dated 29 October 1954. | Concurred 9 November 1954                                      | DR<br>404**  | Installed                   |
| P=277                             | "Automatic Shutdown of Power to Display Consoles of XD-1", by P. Longo, dated 27 February 1956.                   | Concurred 15 March 1956.                                       | DR<br>631**  | As soon as possible.        |
| Misc. Test Equipm                 | ent   |  |              |                             |
| P=66                              | "Test Equipment, Tools, and Furniture List for XD-1 Maintenance", dated 26 October 1954.                          | Concurred 26 October<br>1954.<br>Released 18 November<br>1954. | DR<br>405**  | Installed                   |
| P=79                              | "Spare Parts and Maintenance Test Equipment<br>Storage", by A. Gayle, dated 1 December<br>1954.                   | Concurred 1 December 1954                                      | DR<br>406**  | Installed                   |
| P-126                             | "Supplement to Test Equipment, Tools, and Furniture List", by R. Bottomley, dated 20 December 1954.               | Concurred 20 December 1954.                                    | •            | Installed                   |
| P=165                             | "Supplement to the Test Equipment, Tools, and Furniture List", by R. C. Marden, dated 2 March 1955.               | Concurred 2 March<br>1955                                      | DR<br>336*** | Installed                   |
| P-187                             | "Change in Test Equipment, Tool, and<br>Furniture", by R. C. Marden, dated<br>27 April 1955.                      | Concurred 27 April 1955  | DR<br>347**  | Installed                   |
| P=203                             | "Supplement to Test Equipment, Tools, and Furniture List", by R. C. Marden.                                       | Concurred 13 July<br>1955                                      | DR<br>407**  | Installed 29                |

#### ASSOCIATE EQUIPMENT (Continued)

| Document Number | Title  | Remarks                      | LL<br>6DR#  | Statua and/or Required Date |
|-----------------|--|------------------------------|-------------|-----------------------------|
| P-227-3         | Concurrence on the permanent deferment of the installation of the proposal, P-227-2.                       | Concurred 17 August<br>1956  |             | į.                          |
| P-241           | "Supplement to the Test Equipment, Tools,<br>and Furniture List", by R. Bottomley,<br>dated 23 March 1955. | Concurred 23 March           |             | Installed                   |
| P-21414         | "Test Equipment Supplement List for XD-1 Maintenance", by R. Bottomley, dated 17 May 1955.                 | Concurred 20 May<br>1955     |             | Installed                   |
| P-264           | Additional Test Equipment for XD-1.  | Concurred 19 January<br>1956 | DR<br>589** | Installed                   |
| Spare Parts     |  |                              |             |                             |
| P-109           | "Prototype System Spare Parts Policy<br>Revision", by N. H. Decker, dated<br>1 December 1954.              | Concurred 1 December<br>1954 | DR<br>1408* | Installed                   |
| P=223           | Spare Parts Policy Revision  | Concurred 11 October<br>1955 |             | Installed                   |

#### GENERAL

| Document Number   | Title   | Remarks   | LL<br>6DR#  | Status and/or Required Date |
|-------------------|---|---|-------------|-----------------------------|
| Building          |   |   |             | 7                           |
| H-152             | "Scope of IBM Responsibility at AFCRC Building F for XD-1", by A. E. Quick, dated 15 October 1954 and Correction dated 13 April 1955. | Approved by Lincoln,<br>Letter to A. E. Quick,<br>by R. R. Everett, dated<br>9 November 1954. |             |                             |
| P-115-1           | First Floor Layout of Building F<br>Drawing 5001-31007 Revision M.  | Concurred 14 October 1955. Incorporates all previous Changes.                                 | DR<br>447** |                             |
| P-163             | "Attached Sketch of Basement Layout<br>Building F"  | Concurred 15 March<br>1955  | DR<br>411** |                             |
| <b>P-</b> 250     | "Drawing E-58233-12, "Second Floor<br>Layout Building F"  | Concurred 15 December 1955  | DR<br>574** |                             |
| Operational Furni | ture for XD-1   |   |             |                             |
| P-78              | 6M-3218, Operational Furniture for AN/FSQ-7 (XD-1).   | Concurred 14 December 1954  |             | Installed                   |
| 6M-3055-1         | Types and Locations of Clocks, Building F.  | Released 3 December 1954  |             | As soon as possible.        |

6M-3851-3

Col. A. R. Shiely (4)

H. E. Ernst

Page 32

#### DISTRIBUTION LIST

#### Lincoln IBM J. A. Arnow C. P. Baccari H. D. Benington P. A. Beeby D. R. Israel R. D. Cole J. A. O'Brien R. P. Crago H. K. Rising W. A. Dayger G. E. Valley, Jr. A. F. DiMarco C. A. Zraket R. C. Eisele Design Control Office R. M. Furman ESS-PCC File E. H. Goldman Div. 2 File (R. E. Rader) R. A. Imm P. J. Gray C. F. Lynch B. H. Matteson ADES A. E. Quick A. H. Raymond, Jr. H. D. Ross A. A. Carrie (BTL) (at Linc.) R. Bright, Jr. P. J. Sharkitt G. W. Clement (BTL) (at Linc.) W. S. Squire C. W. Halligan (BTL) (5) M. A. Taylor (1 repro.) F. C. Ong (at Linc.) C. E. Walston J. P. Quinlan (3 cys. and 1 repro.) R. J. Whalen R. W. Carlsen S. P. Schwartz F. Simon (at Linc.) D. P. Wilkes AFCRC ADC Lt. Col. J. R. Waterman, CRL (3) W. J. Smith, CRLE Cdr. 4620th ADW (3) L. C. Mangur, CRLD Cdr. RAFD Attn: MRPC ADES-PO