

Report No. FAA ^{NA-}75-165

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**McCLELLAN RAPCON
SACRAMENTO, CALIF.**



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Prepared for

**U. S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
Systems Research & Development Service
Washington, D. C. 20590**

PREFACE

This document is published by the National Aviation Facilities Experimental Center, Atlantic City, New Jersey, in response to a requirement from Systems Research and Development Service to provide basic data to the sustaining engineering program. It is intended only as a reference source, containing operational information, equipment content, layout, and physical design characteristics of major terminal facilities. It will be published as a series of facility supplements which will be updated as required during March of each year as long as the information is required for system planners. Changes to the reported conditions, of a nature believed to warrant an errata page, are to be forwarded to NAFEC, attention ANA-260, annually during the month of January. Suggestions on content, involving modification, revisions and/or additions, are also encouraged at that time.

Subprogram Manager..... K. Cohen, ARD-120
SRDS, Washington, D. C.

Program Area Agreement Manager..... F. Hierbaum, ANA-260
NAFEC, Atlantic City, N. J.

1. NAME OF FACILITY: McCLELLAN RAPCON
2. TYPE FACILITY: RAPCON
3. GEOGRAPHIC LOCATION: SACRAMENTO, CALIFORNIA
4. MAILING ADDRESS/FACILITY OFFICERS:
McCLELLAN RAPCON
FAA
SACRAMENTO, CALIFORNIA
PHONE: 916-643-4242

DONALD MUNCY, CHIEF
5. DISTANCE BETWEEN TRACON AND PRIMARY TOWER CAB:
NINE MILES TO SACRAMENTO METRO AIRPORT (SMF)

TEN MILES TO SARAMENTO EXECUTIVE AIRPORT (SAC)

ON BASE - McCLELLAN (MCC)

EIGHT MILES TO MATHER FIELD (MHR)

TWENTY-FIVE MILES TO MARYSVILLE-BEALE AFB (BAB)

TWENTY-FIVE MILES TO YUBA COUNTY AIRPORT (MYV)

TWENTY MILES TO TRAVIS (ARTS 2) AFB (SUU)
6. TYPE OF RADAR(S):
ASR-4/ATCBI 3 - McCLELLAN
ASR-5/ATCBI 4 - BEAL AFB
7. NUMBER OF DISPLAYS:
FIVE HORIZONTAL AND ONE VERTICAL (MILITARY USES
GCA) TWO VERTICAL
8. TYPE OF RADAR SERVICE PROVIDED: STAGE III
9. LIST OF AUTHORIZED POSITIONS OF OPERATION:
SEE ATTACHED DRAWINGS

10. NORMAL STAFFING BY SHIFTS:
10 TO 6 - 16 10 PEOPLE AFTER (7 TO 10 - 10)
MIDS - 3
11. CONSOLIDATION OF POSITION PROCEDURE:
ALL SECTORS MUST BE AVAILABLE ON #2 PRIME SCOPE
12. SATELLITE AIRPORTS (APPROACH CONTROL AND/OR RADAR SERVICES PROVIDED):
SACRAMENTO METRO - 9 mi
SACRAMENTO EXECUTIVE - 10 mi
McCLELLAN - ON BASE
MATHER FIELD - 8 mi
BEALE AFB - 25 mi
YUBA COUNTY AIRPORT - 25 mi
TRAVIS AFB
13. NUMBER OF ARTS KEYPACKS AND LOCATIONS:
SEE ATTACHED DRAWING
14. AIR/GROUND FREQUENCIES BY POSITION (MHz):
SEE ATTACHED DRAWING
15. FLIGHT DATA HANDLING ACTIVITY PECULIAR TO THE FACILITY:
NONE
16. TRAFFIC COUNT FOR A REPRESENTATIVE BUSY DAY: JAN. 1975
PRIME AIRPORTS 3,282 SECONDARY 15,248 OVERFLIGHTS 3,351
TOTAL 21,881 STAGE III - VFR 3,875
17. FUTURE PLANNING:
NOT PLANNING TO USE H1 (EMERGENCY TRAVIS)
NO ROOM EXPANSION PLANNED
18. FDEP EQUIPMENT:
TWO PRINTERS AND KEYBOARD
19. TOWER EN ROUTE AGREEMENTS:
TRAVIS/STOCKTON
20. ASSOCIATED FSS(S): NONE

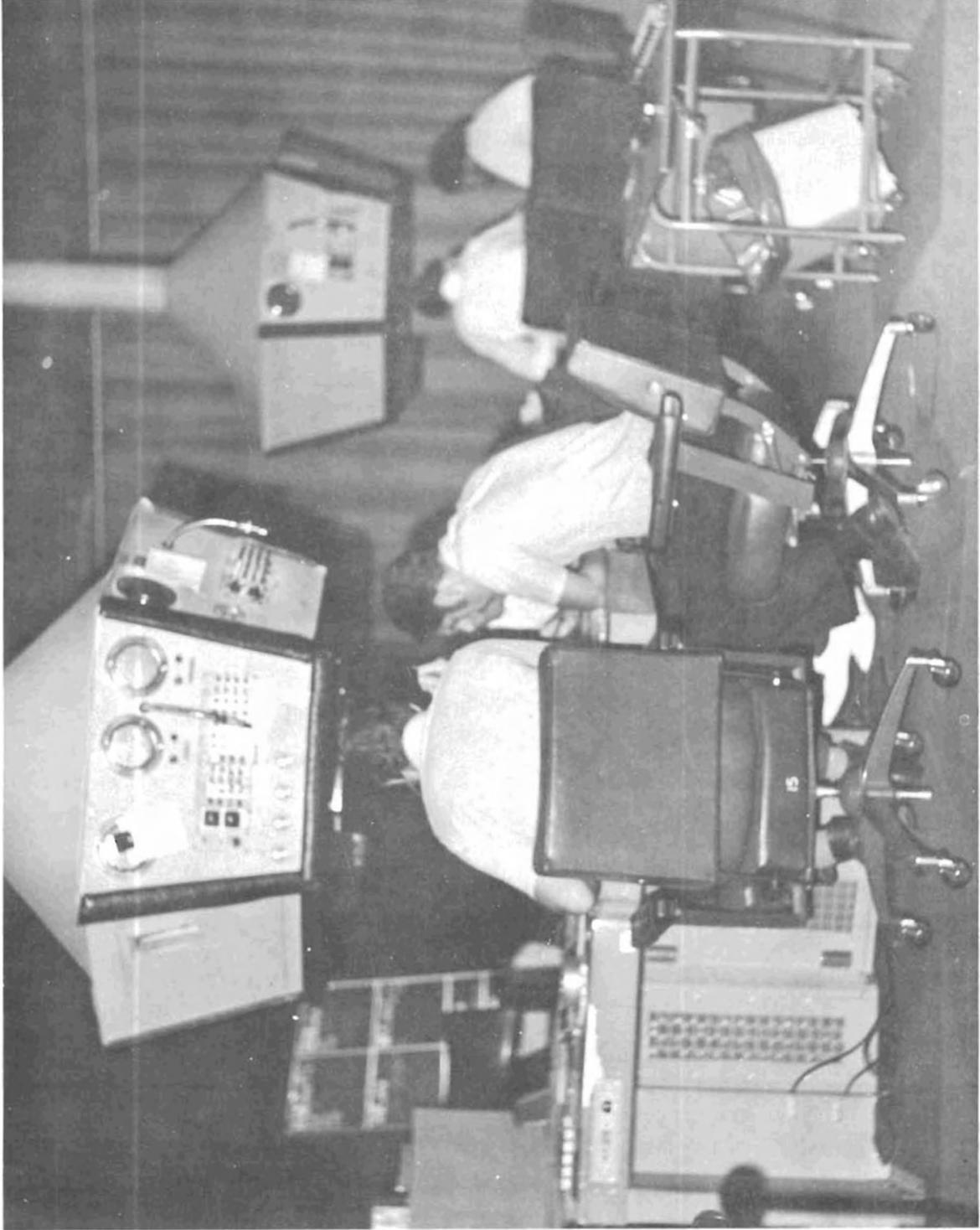
21. RADAR DATA PROCESSING WITH ADJACENT FACILITY(S): NONE
22. WEATHER DATA POSTED WITHIN FACILITY (SOURCE AND HOW RECEIVED):
ELECTROWRITER/TELAUTOGRAPH
23. RVR'S (RVV'S):
RVR METRO/McCLELLAN/MATHER/BEALE
24. ARTS III COMPUTER:
 - a. CAPACITY (NO. OF K): 40K
 - b. NO. OF INPUT/OUTPUT CHANNELS: 16 CHANNELS
 - c. IS THIS FACILITY AN ASSEMBLY SITE: NO
25. FACILITY STAFFING:
ONE CHIEF, ONE DEPUTY, THREE ASSISTANT CHIEFS, FIVE TEAM SUPERVISORS, 47 CONTROLLERS, TWO SECRETARIES, TWO DSS, TWO EPDS

1. NAME OF FACILITY: METRO TOWER
SACRAMENTO METROPOLITAN AIRPORT
2. TYPE FACILITY:
FAA TOWER
3. GEOGRAPHIC LOCATION:
NORTH CENTRAL CALIFORNIA
4. MAILING ADDRESS/FACILITY OFFICERS:
FAA METRO ATC TOWER
5620 ALAN BOYD DRIVE
SACRAMENTO, CALIFORNIA 95837
PHONE: AREA CODE 916-929-5151

ROBERT MARKWITH, CHIEF
5. TYPE OF TOWER CAB:
PEI C-1
6. DISTANCE BETWEEN TRACON AND PRIMARY TOWER CAB:
NINE MILES VIA AIR
7. a. TYPE OF RADAR(S): NONE AT PRESENT
b. ANTENNA LOCATION(S): NONE AT PRESENT
c. TYPE OF RADAR BEACON INTERROGATOR: NONE AT PRESENT
8. NUMBER OF DISPLAYS: N/A
9. NUMBER AND TYPE OF BRITE SYSTEM(S): PROGRAMMED FOR BRITE 4
NUMBER AND TYPE OF DISPLAY(S): ANTICIPATE ONE BRITE 4
10. ALPHA/NUMERIC CAPABILITY ON BRITE DISPLAY(S):
NOT DETERMINED
11. TYPE OF RADAR SERVICE PROVIDED:
STAGE III TRSA (MCC RAPCON)

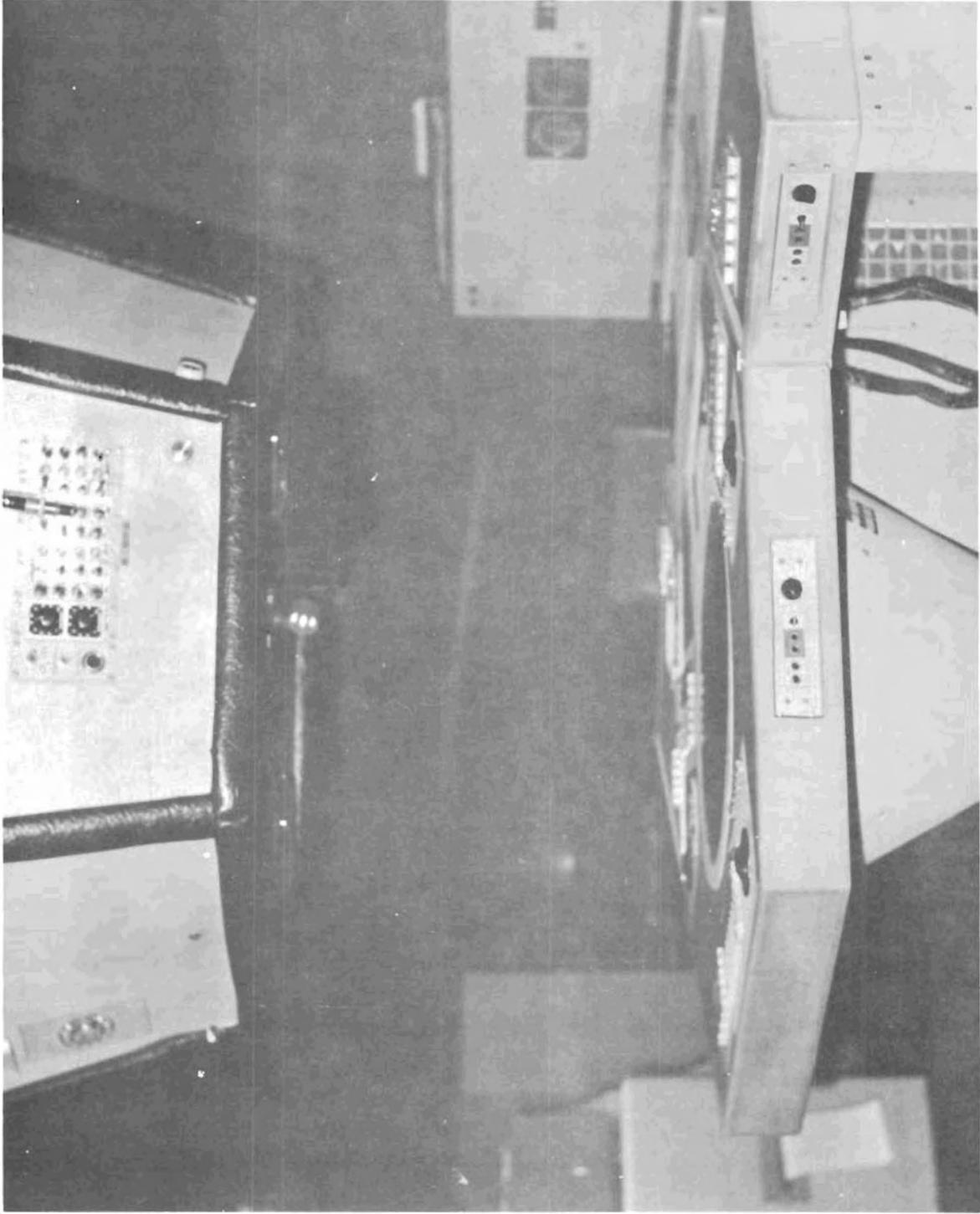
12. LIST OF AUTHORIZED POSITIONS OF OPERATION:
 CAB: LOCAL CONTROL (LC)
 FLIGHT DATA (FD)
 GROUND CONTROL (GC)
13. NORMAL STAFFING BY SHIFTS:
 0800 - 1600 LC AND GC/FD
 1600 - 2400 LC AND GC/FD
 0000 - 0800 LC/GC/FD COMBINED
14. CONSOLIDATION OF POSITIONS PROCEDURES:
 0800 - 1600 GC AND FD TO FD
 1600 - 2400 GC AND FD TO FD
 0000 - 0800 LC AND GC AND FD TO FD
15. SATELLITE AIRPORTS (APPROACH CONTROL/RADAR SERVICES PROVIDED):
 N/A
16. NUMBER OF ARTS KEYPACKS (LOCATIONS): N/A
17. AIR/GROUND FREQUENCIES BY POSITION (MHz):
 LC 125.7, 121.1, 121.7, 256.7
 GC 125.7, 121.1, 121.7, 256.7
 FD 125.7, 121.1, 121.7, 256.7
18. FLIGHT DATA HANDLING ACTIVITY PECULIAR TO THE FACILITY:
 FD ENTERS STAGE III DEPARTURE INFORMATION INTO FDEP FOR RAPCON.
19. TRAFFIC COUNT FOR A REPRESENTATIVE BUSY DAY:
- | | AIR
CARRIER | AIR
TAXI | ITIN. | TOTAL | IFR
OPNS |
|-----------|----------------|-------------|-------|-------|-------------|
| Peak Day | 125 | 49 | 281 | 625 | 284 |
| Busy Hour | 14 | 11 | 32 | 65 | 48 |
20. FUTURE PLANNING:
 PARALLEL RUNWAY CONSTRUCTION PLANNED.
 RUNWAYS 16 L AND 34R
21. FDEP EQUIPMENT:
 ONE FDEP IN OPERATION, BACKUP PENDING. DEPARTURE INFORMATION ONLY PROVIDED.

22. TOWER ENROUTE AGREEMENTS: NONE
23. ASSOCIATED FLIGHT SERVICE STATION(S):
SACRAMENTO FSS
SACRAMENTO EXECUTIVE AIRPORT
24. RADAR DATA PROCESSING WITH ADJACENT FACILITY(S): N/A
25. WEATHER DATA POSTED WITHIN FACILITY (SOURCE AND HOW RECEIVED):
LAWRS - LIMITED AVIATION WEATHER REPORTING STATION
26. RVR'S (RVV'S):
RVR RUNWAY 16, TOUCHDOWN AND ROLLOUT
RUNWAY 34, TOUCHDOWN
27. ASDE (TYPE OF DISPLAYS):
FACILITY DOES NOT HAVE ASDE
28. ARTS III COMPUTER: N/A
29. ACCESS TO CAB FOR MOVEMENT OF EQUIPMENT:
STAIRWELL
30. FACILITY STAFFING:
CHIEF, TWO ASSISTANT CHIEFS, AND 10 CONTROLLERS



MCC 10/74

MCC RAPCON-1

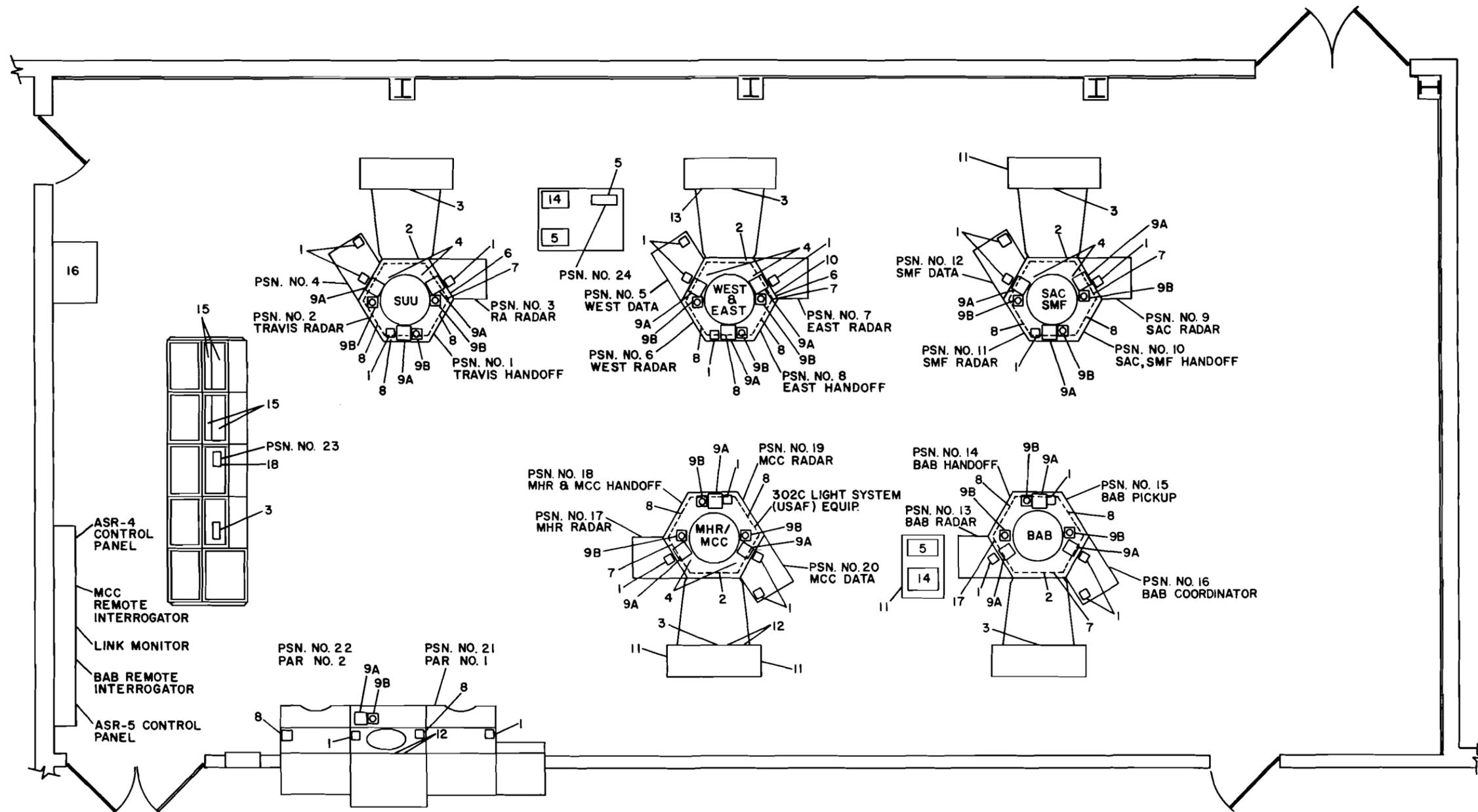


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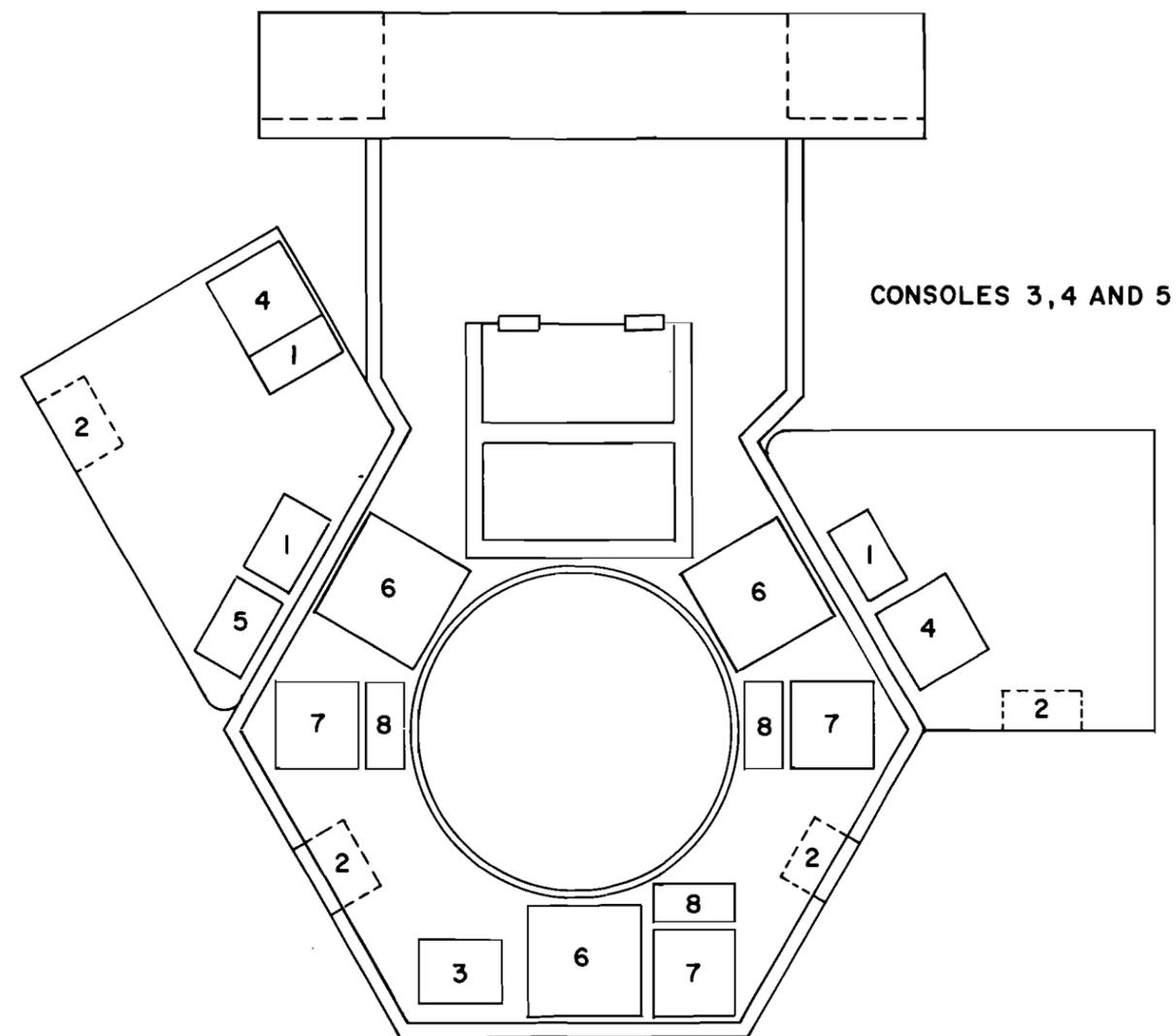
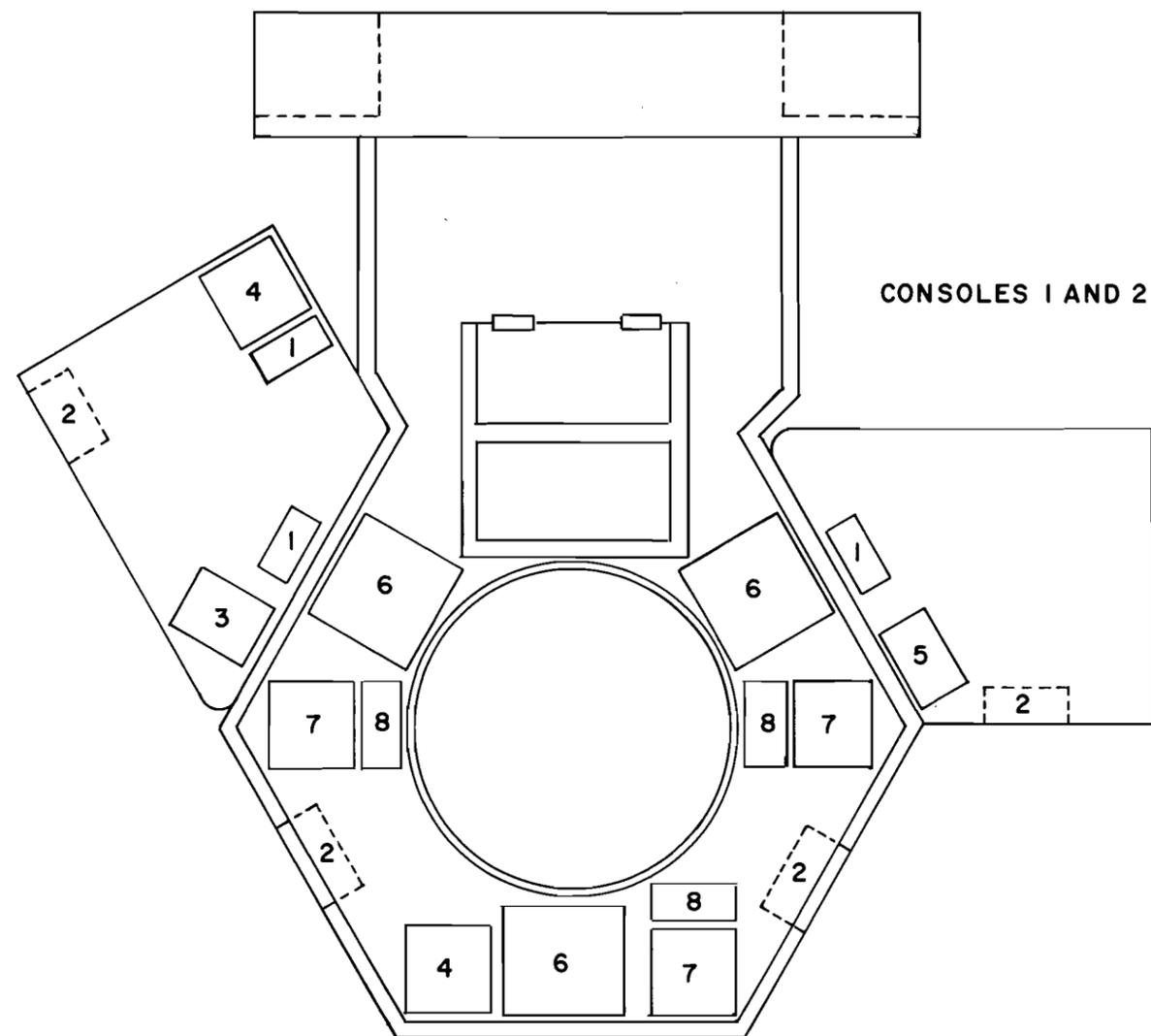
MCC RAPCON-2



MCC 10/74 MCC RAPCON-3 (MILITARY GCA)



- | | |
|--|---|
| <ul style="list-style-type: none"> 1. INTERPHONE SELECTOR 2. BEACON DECODER 3. 24 HOUR CLOCK 4. TELCO & FAA SPEAKERS IN OVERHEAD TUB 5. FDEP KEYBOARD 6. ASR-4 CONTROLS 7. OVERHEAD TUB 8. XMTR & RCVR FREQUENCY SELECTOR KEYS 9A. ARTS III KEYBOARD 9B. TRACKBALL | <ul style="list-style-type: none"> 10. RF ATTENUATOR 11. ELECTROWRITER 12. WIND SPEED & DIRECTION INDICATOR 13. ALTIMETER INDICATOR 14. FDEP PRINTER 15. MAIN & STANDY XMTR & RCVR SELECTOR PANEL 16. ARTS III READOUT PRINTER 17. ASR-5 CONTROLS 18. SUPERVISORS INTERPHONE SELECTOR KEYS |
|--|---|



- 1- TELCO DIAL
- 2- JACKS
- 3- TELCO 24 KEYS
- 4- TELCO 36 KEYS
- 5- TELCO 18 KEYS
- 6- KEYBOARD
- 7- TRACKBALL
- 8- QUICK LOOK

MCC 10/74

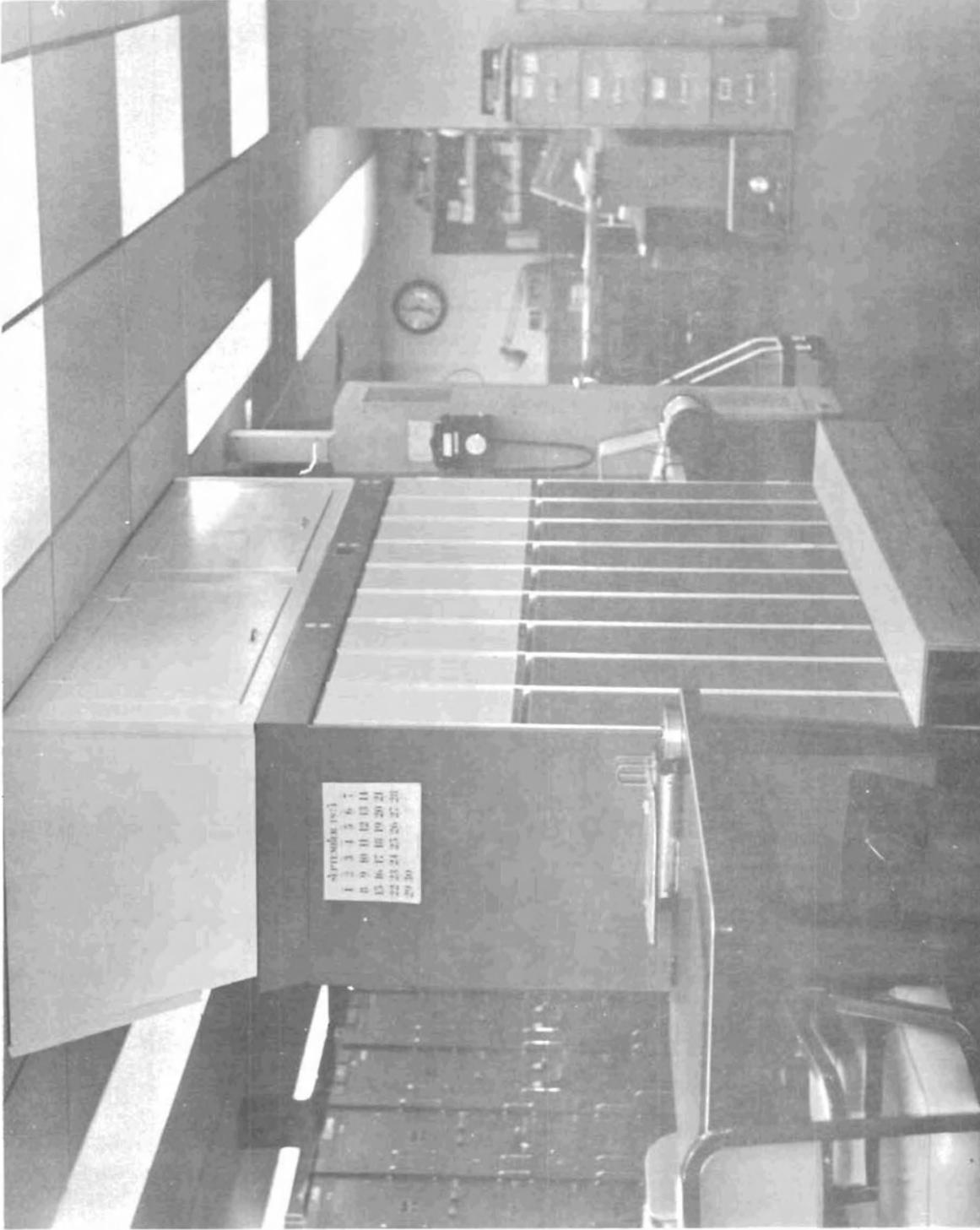
MCC RAPCON-5



APR 1974 (S-3)
1 2 3 4 5 6
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30

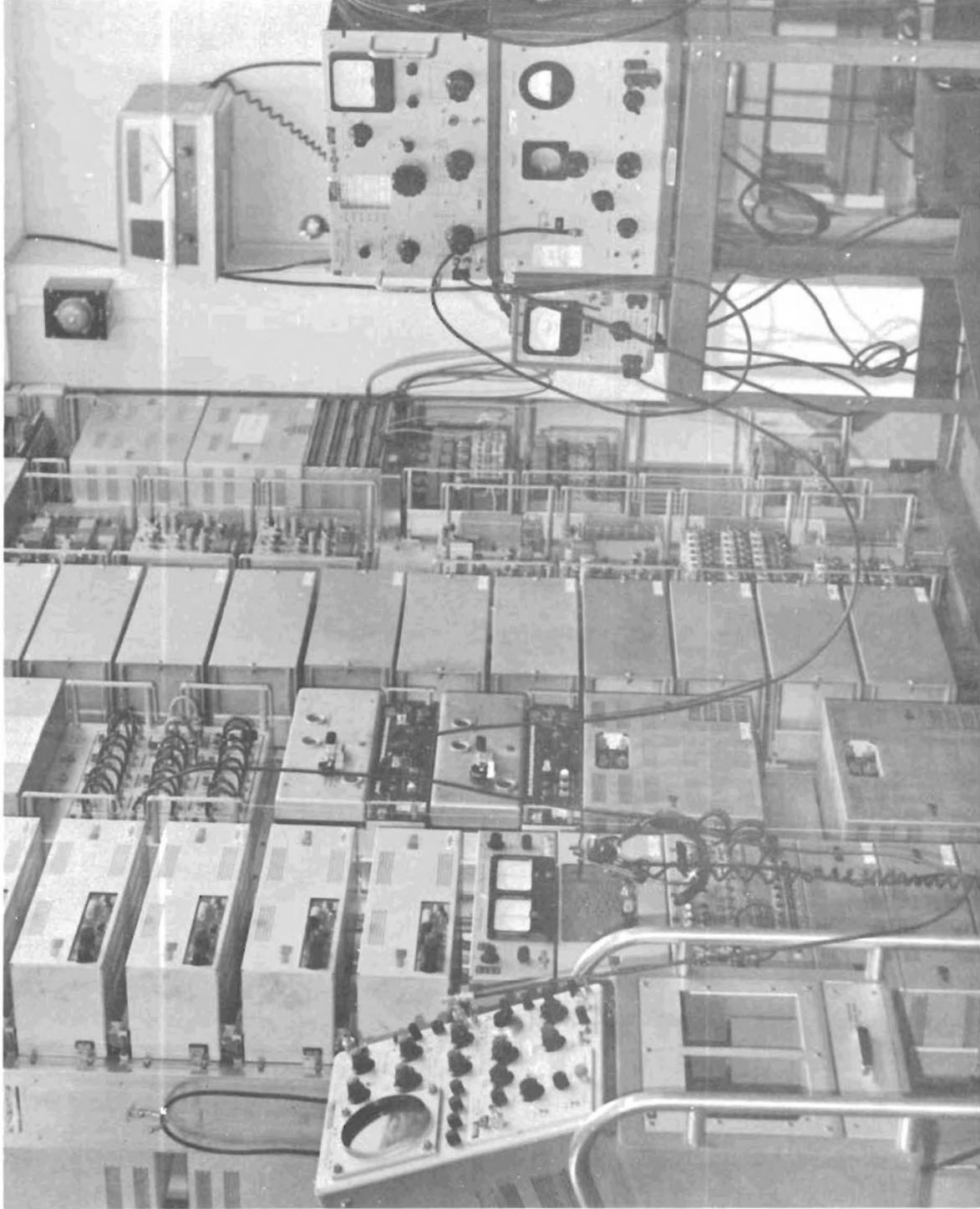
MCC EQUIPMENT ROOM - I

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MCC EQUIPMENT ROOM-2

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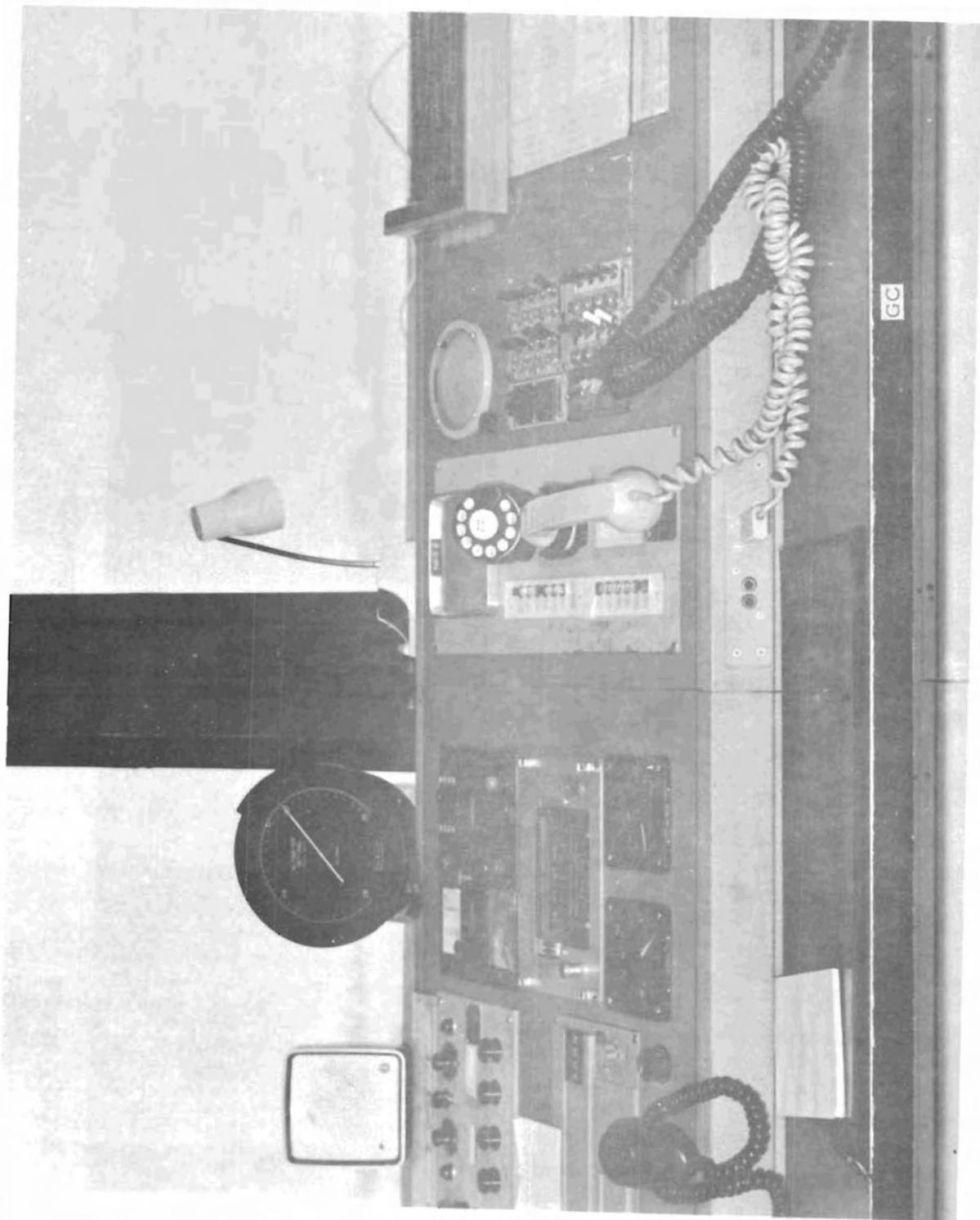
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MCC EQUIPMENT ROOM-3



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SMF TOWER-1



MCC 10/74

SMF TOWER-2



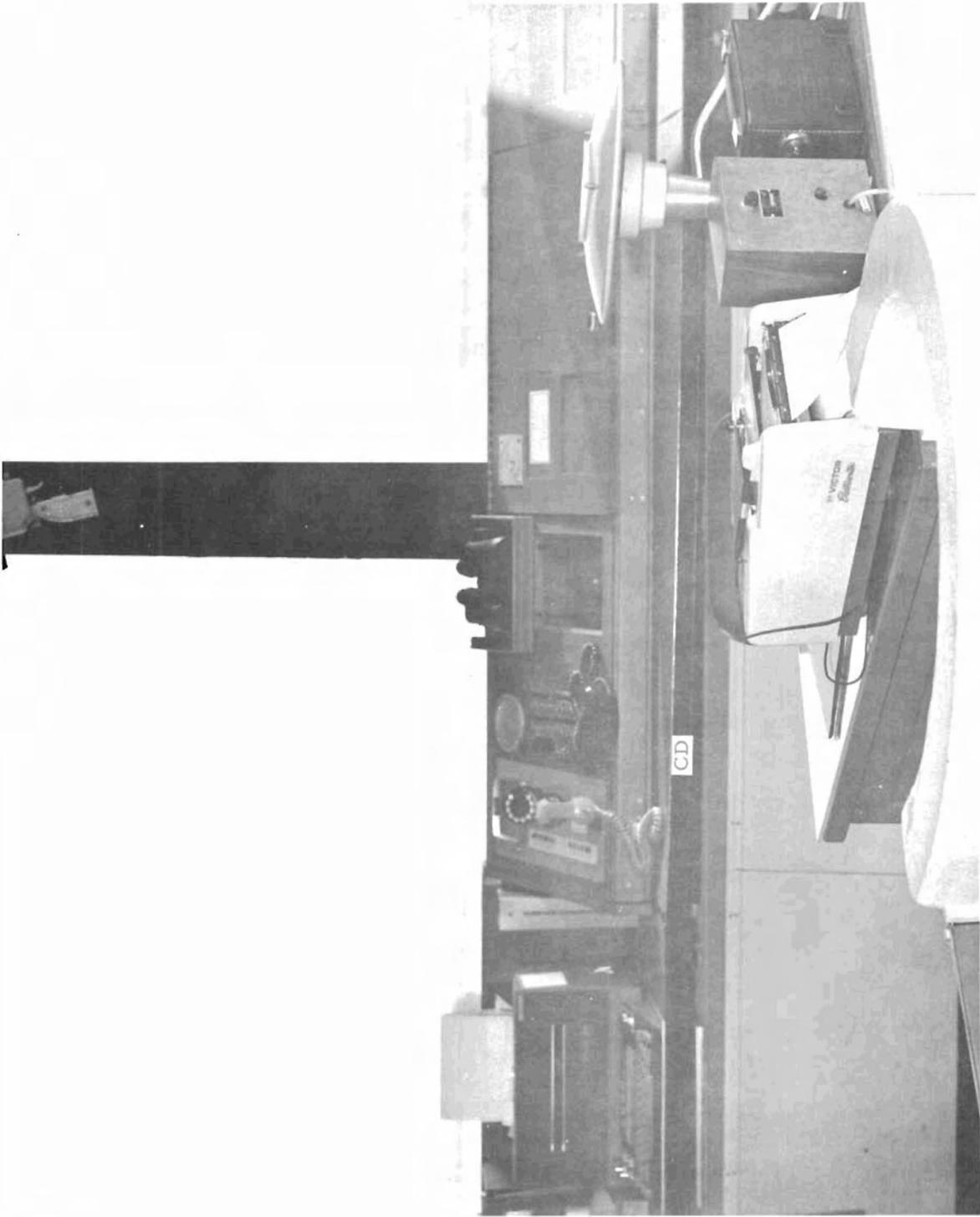
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SMF TOWER-3



MCC 10/74

SMF TOWER-4



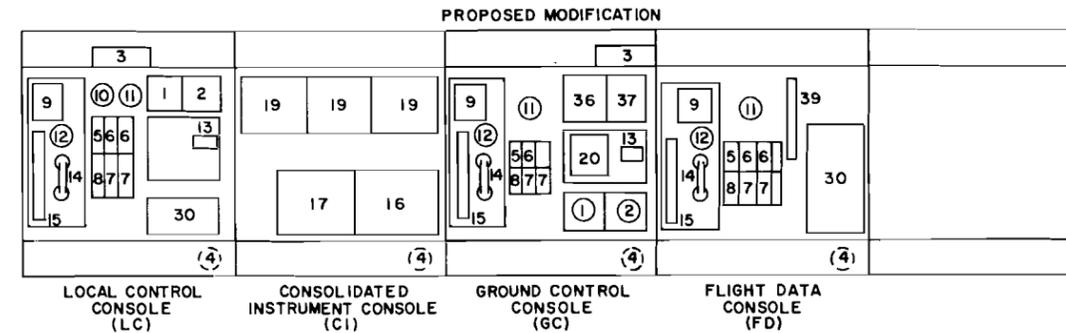
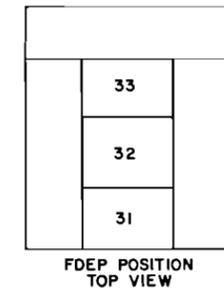
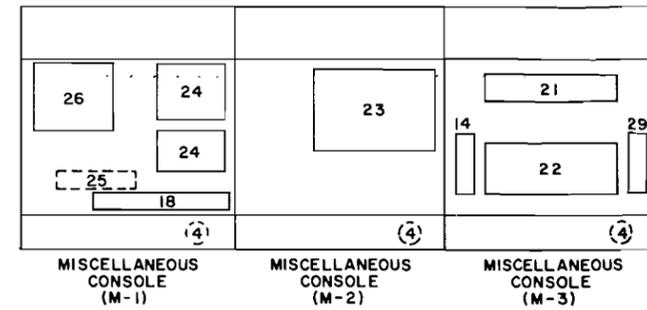
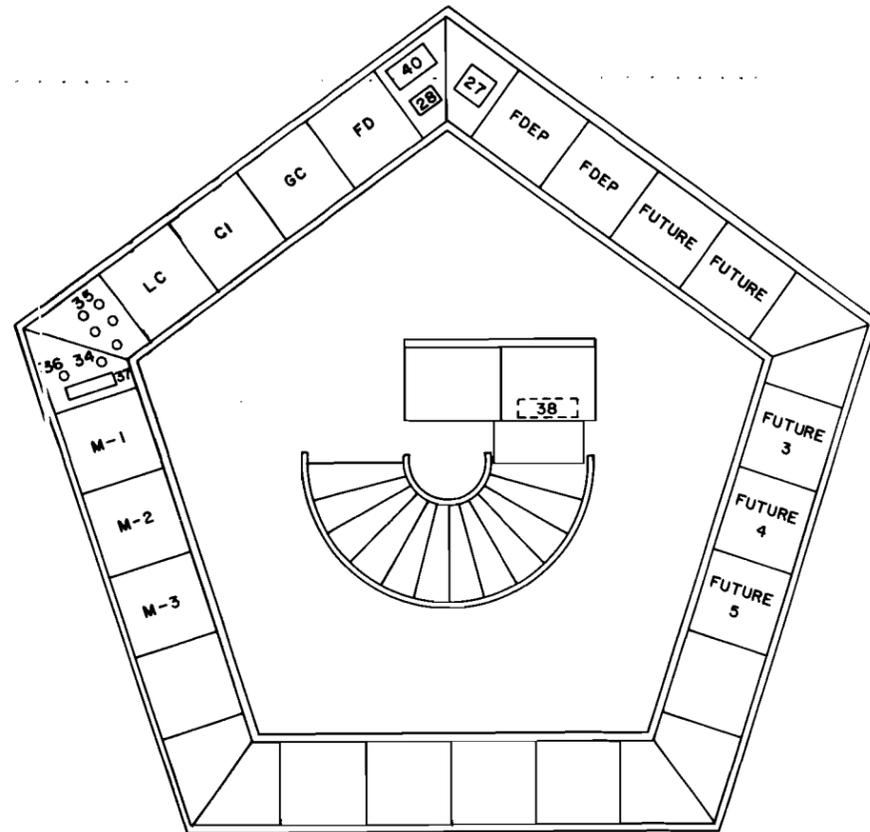
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SMF TOWER-5



MCC 10/74

SMF TOWER-6



- 1 WIND DIRECTION INDICATOR
- 2 WIND SPEED INDICATOR
- 3 DIGITAL CLOCK
- 4 OVERHEAD LIGHT CONTROL
- 5 RCVR VOLUME CONTROL PANEL
- 6 RCVR MIXING & CHANNEL SELECTOR PANEL
- 7 TRANS SELECTOR UNIT
- 8 MIKE TRANSFER UNIT
- 9 TELCO SPEAKER
- 10 AIR/GND SPEAKER (FREQUENCY)
- 11 AIR/GND SPEAKER (POSITION)
- 12 TELCO DIAL
- 13 DIGITAL ALTIMETER INDICATOR
- 14 TELCO HANDSET

- 15 TELCO KEYING EQUIPMENT
- 16 VHF TRANSCEIVER
- 17 UHF TRANSCEIVER
- 18 VHF/UHF TRANS/RCVR CHANGEOVER PANEL
- 19 RVR
- 20 LOG
- 21 RECORDER ALARM PANEL
- 22 ILS MONITOR & DIAL PANEL
- 23 FIELD LIGHTING PANEL
- 24 RUNWAY LIGHT INTENSITY RELAY CHASSIS
- 25 RUNWAY END IDENTIFIER
- 26 APPROACH/SEQUENCE FLASHER LIGHTING SYSTEM
- 27 RVR RECORDER

- 28 INTERCOM
- 29 ILS INTERPHONE CONTROL PANEL
- 30 STRIP HOLDER DISPLAY BOX
- 31 ALPHA NUMERIC KEYBOARD
- 32 FLIGHT STRIP PRINTER
- 33 FORM HOLDER
- 34 FLOOR LIGHTS CONTROL
- 35 EMERGENCY VENTILATION SYSTEM
- 36 DEW POINT INDICATOR
- 37 TEMPERATURE INDICATOR
- 38 TELAUTOGRAPH/ELECTROWRITER EQUIPMENT
- 39 STRIP STORAGE BOX
- 40 RBC CRT INDICATOR