

## 1

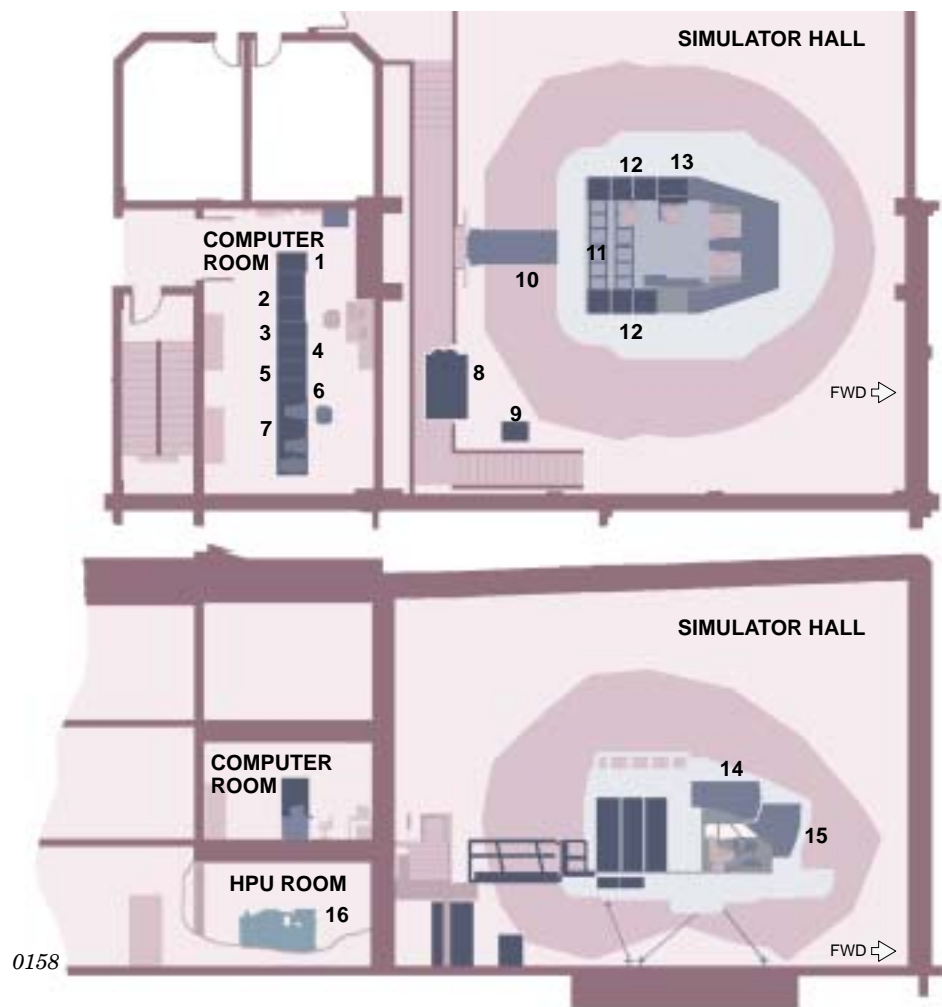
**GENERAL**

This section describes the location of equipment and physical layout of the FFS complex. The simulator complex comprises equipment in three different locations (Figure 1):

- Simulator Hall
- Computer Room
- Hydraulic Power Unit Room

## 01-02

## Location of Equipment



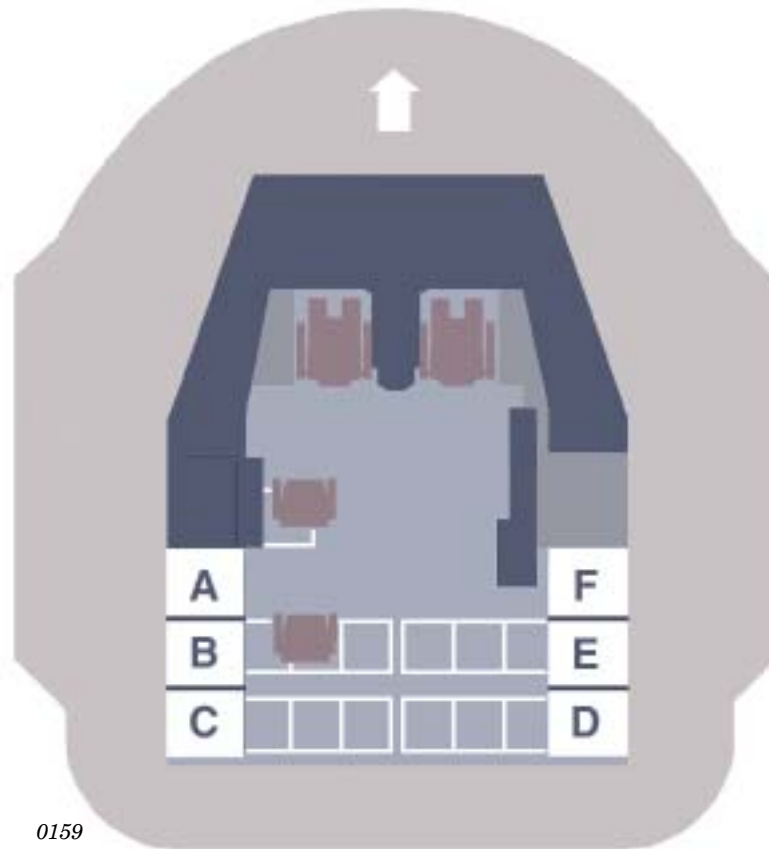
- |                                    |  |
|------------------------------------|--|
| 1 Image Generator Cabinet (Visual) | 9 Motion Control Cabinet                       |
| 2 Power Cubicle                    | 10 Drawbridge                                  |
| 3 Interface Cabinet 'G'            | 11 Underfloor Equipment Racks                  |
| 4 Interface Cabinet 'M'            | 12 On Board Cabinets                           |
| 5 Interface Cabinet 'N'            | 13 Forward Facing Instructor Operating Station |
| 6 Interface Cabinet 'J'            | 14 Visual Projectors and Rear Projector Screen |
| 7 Workstation Desk Unit 'H'        | 15 Mirror                                      |
| 8 Air Conditioning Unit            | 16 Hydraulic Power Unit                        |

**FIGURE 1 Simulator Complex - Location of Equipment**

## 2 SIMULATOR ROOM

### 2.1 On Board Cabinets (Figure 1 Item 12 and Figure 2)

To the rear of the flightdeck, in the aft compartment are six equipment cabinets, these are known as the on board cabinets. Figure 2 shows the general layout of the cabinets. Figures 3 to 8 detail the layout of the individual cabinets A to F.



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FIGURE 2 On Board Cabinets - Layout

01-02

Location of Equipment

## 2.1.1 Cabinet A



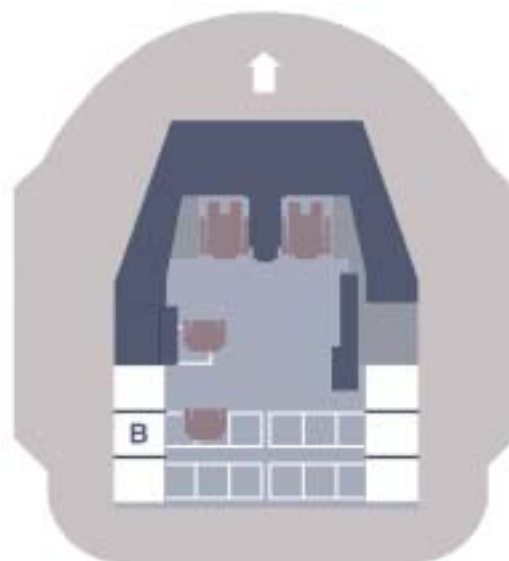
MISCELLANEOUS CONTROL PANEL  
*Amc*



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**FIGURE 3 Cabinet A**

2.1.2 Cabinet B



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FIGURE 4 Cabinet B

### 2.1.3 Cabinet C

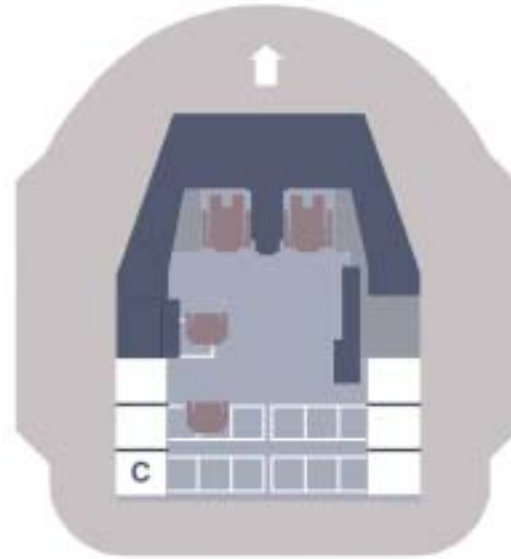
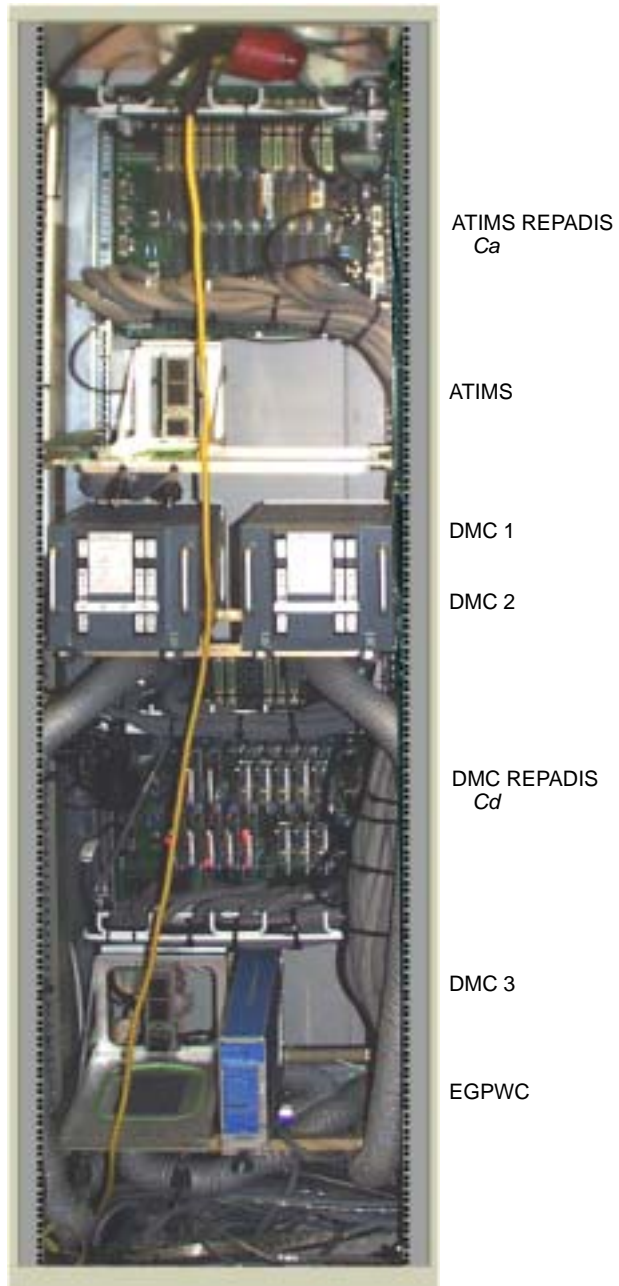
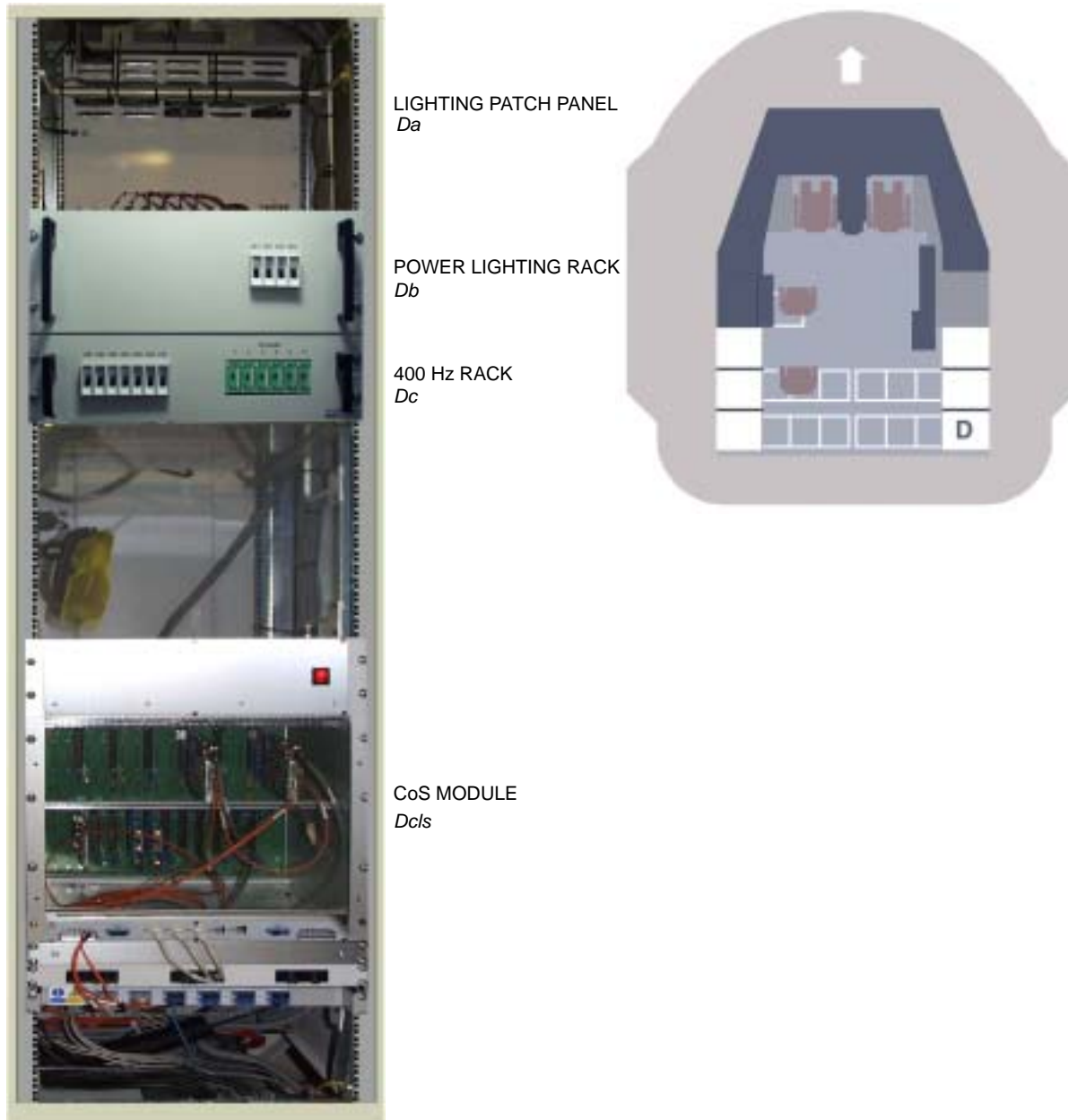


FIGURE 5 Cabinet C

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## 2.1.4 Cabinet D



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FIGURE 6 Cabinet D



## 2.1.5 Cabinet E



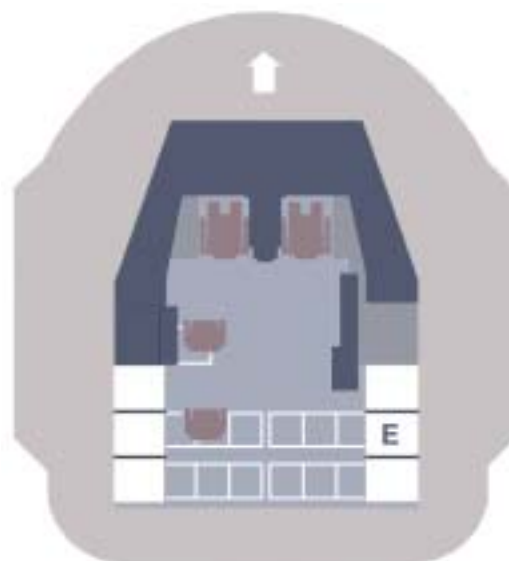
OVHD1 REPADIS  
*Ea*

OVHD2 REPADIS  
*Eb*

OVHD3 REPADIS  
*Ec*

VOLT/BATTERY PSU  
*Ed*

SEAT CONTROL RACK  
*Eg*

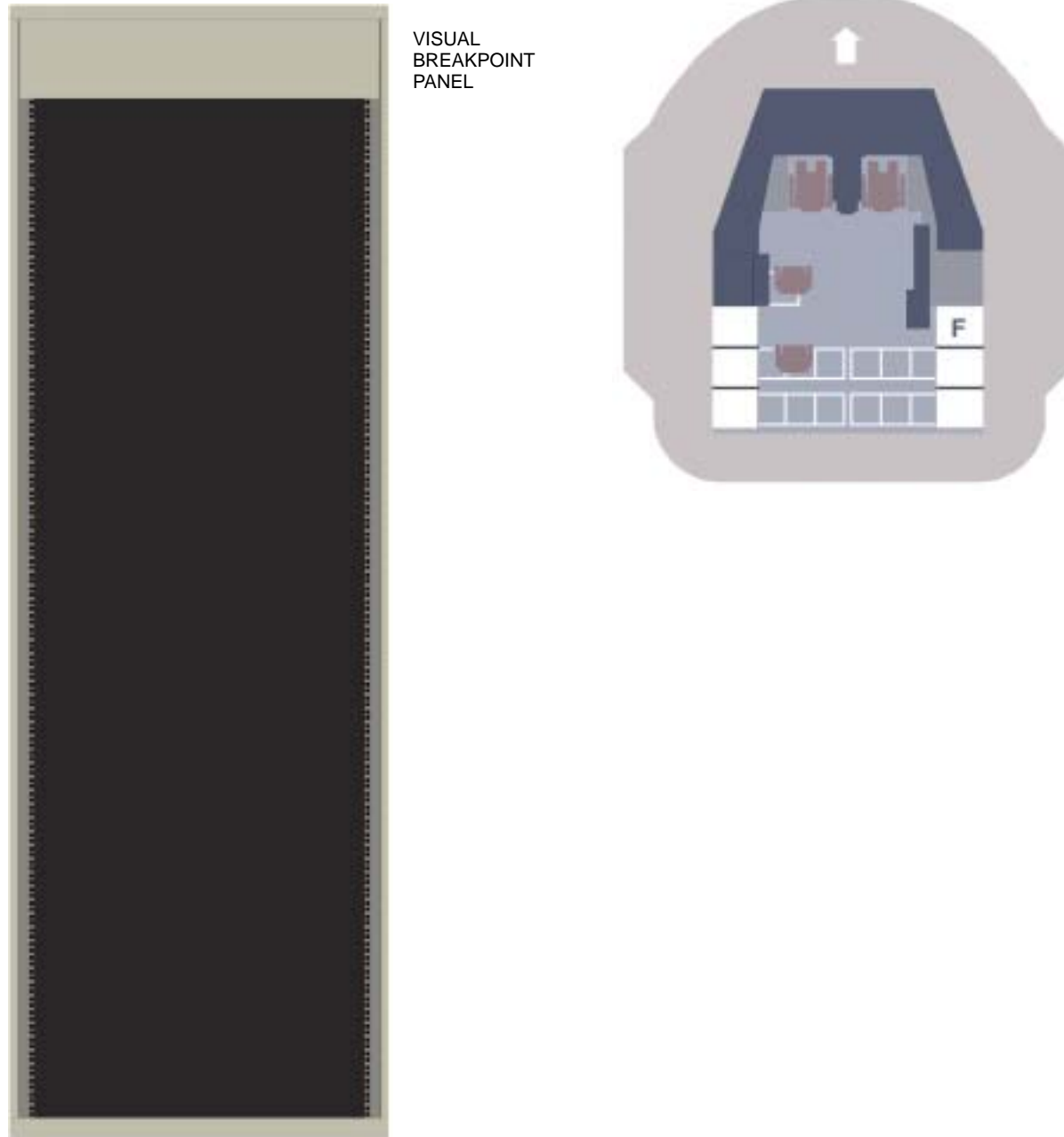


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**FIGURE 7 Cabinet E**



## 2.1.6 Cabinet F

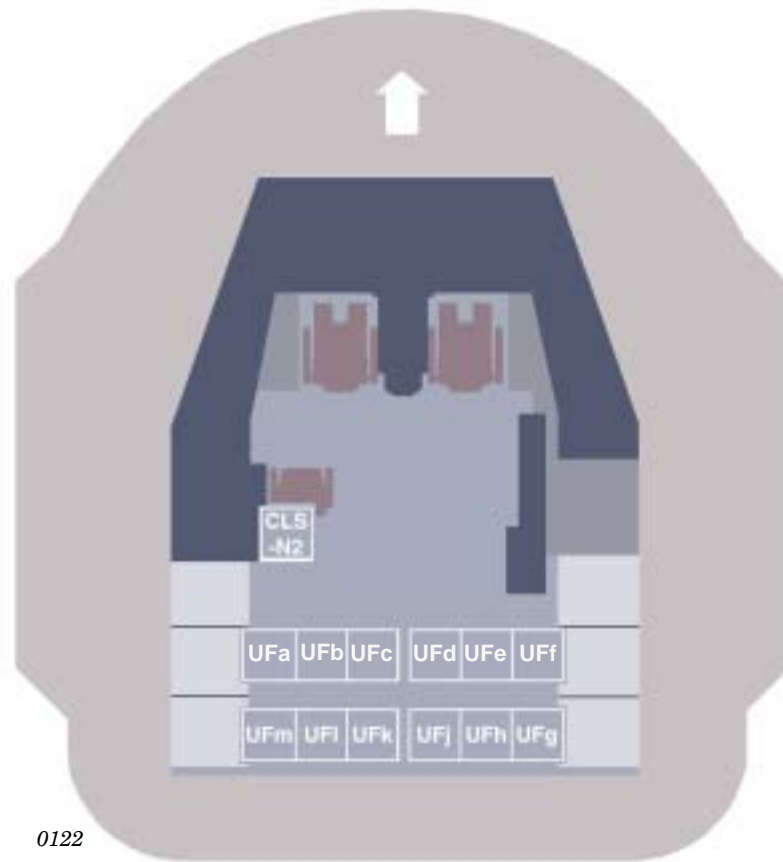


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**FIGURE 8 Cabinet F Visual Control Module**

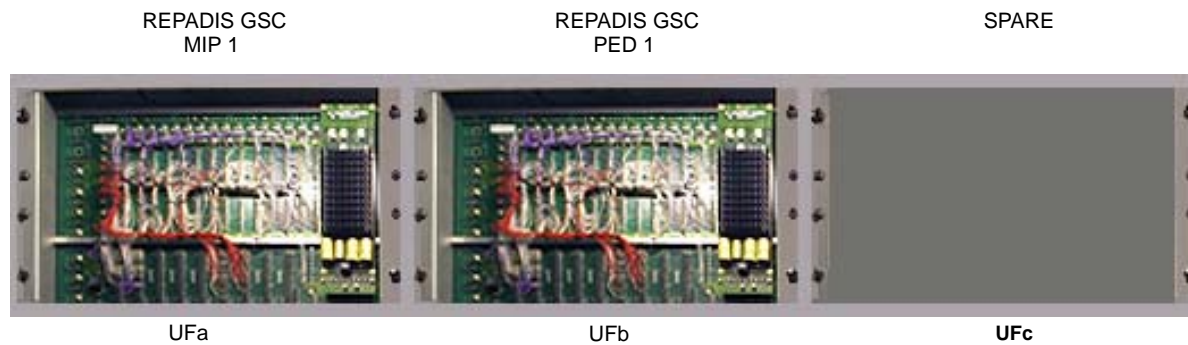
## 2.2 Underfloor Equipment Racks (Figure 1 Item 11 and Figure 9)

Located under the aft compartment, within the floor structure are the underfloor equipment racks. The racks are in four groups of three, with additional racks located adjacent to the control loading frame. Figure 9 shows the general layout. Figures 10 to 13 detail the layout of the individual racks UFa to UFm and CLSN2.



**FIGURE 9 Underfloor Equipment Racks**

## 2.2.1 Underfloor Racks UFa, UFb, UFc



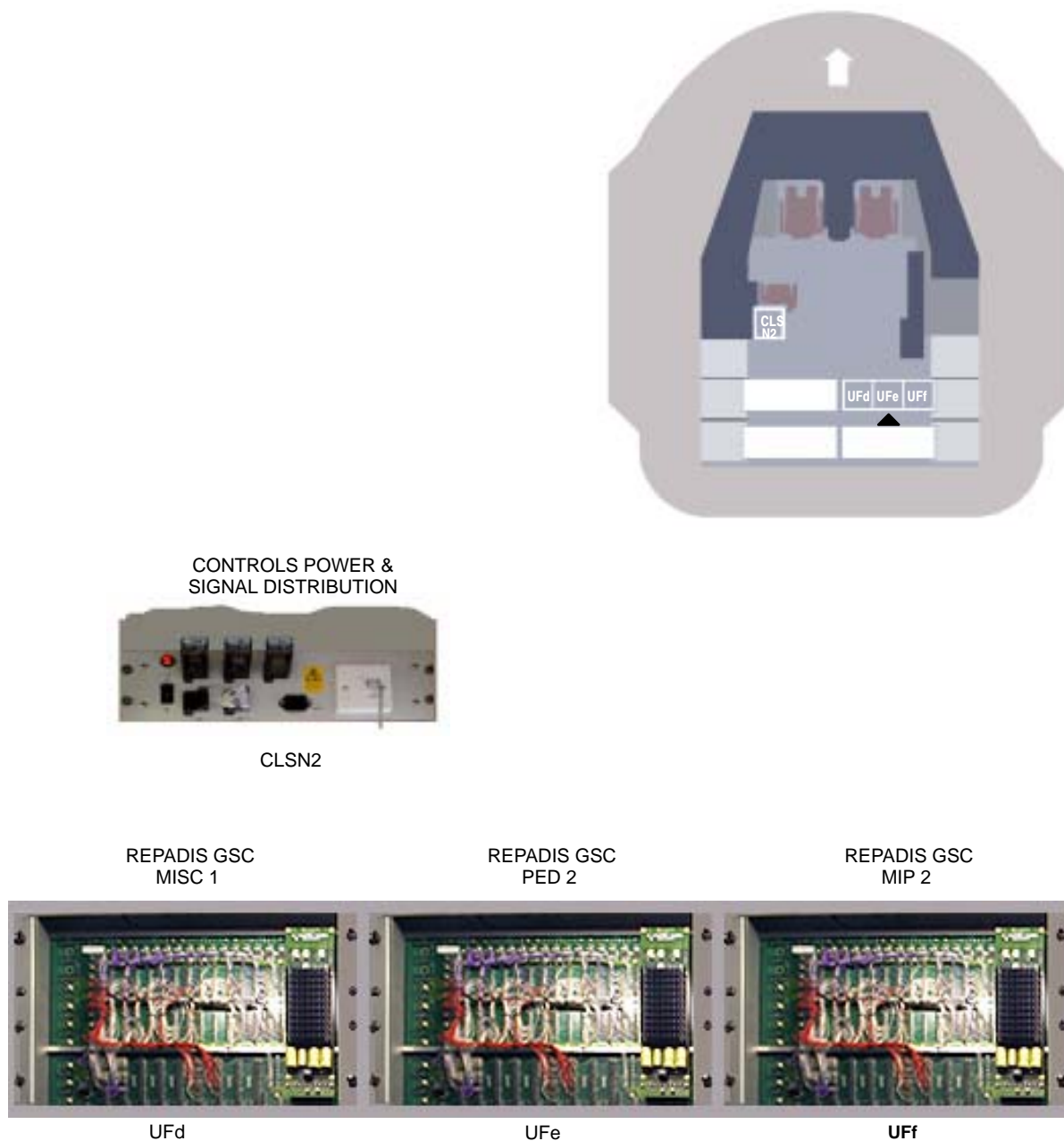
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**FIGURE 10 Underfloor Racks UFa, UFb and UFc**

01-02

Location of Equipment

## 2.2.2 Underfloor Racks UFd, UFe UFf and CLSN2



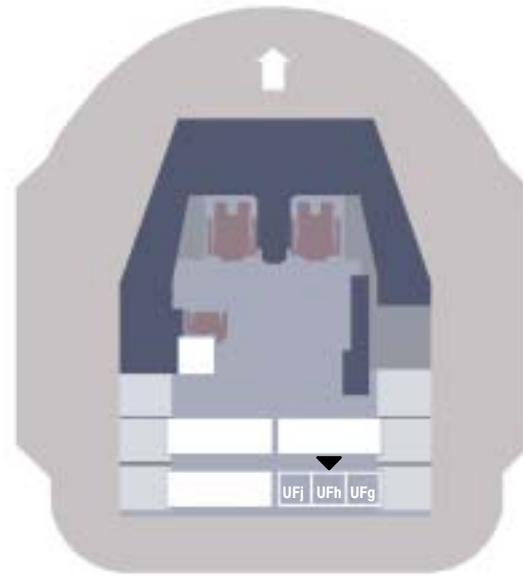
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FIGURE 11 Underfloor Racks UFd , UFe, UFf, UFn and CLSN2

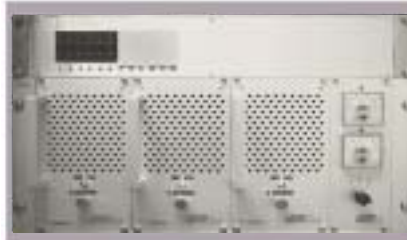
01-02

Location of Equipment

## 2.2.3 Underfloor Racks UFg, UFh and UFj



POWER SUPPLY T28UR  
AND CB DISTRIBUTION PANEL



UFg

POWER JUNCTION BOX  
No. 1



UFh

POWER JUNCTION BOX  
No. 2

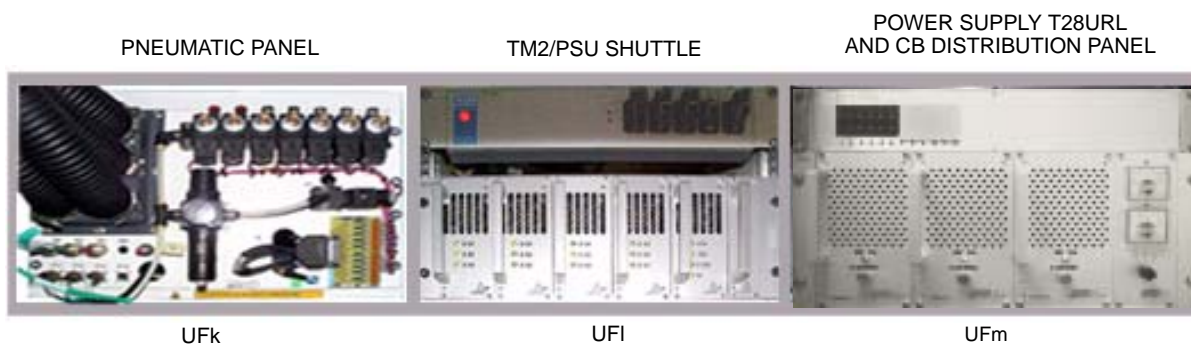
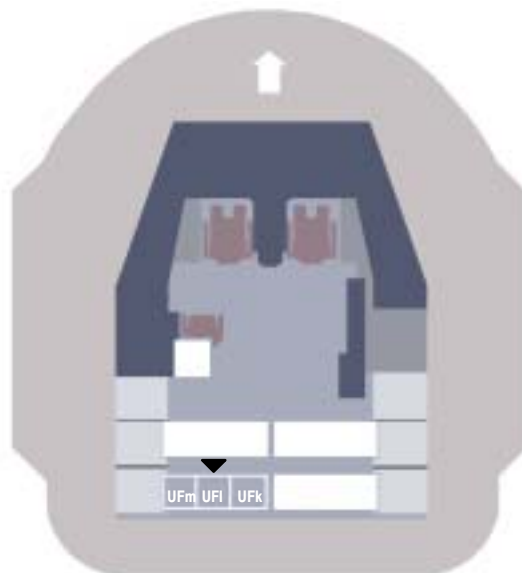


UFj

06080

**FIGURE 12 Underfloor Racks UFg, UFh and UFj**

## 2.2.4 Underfloor Racks UFk, UFI and UFm



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FIGURE 13 Underfloor Racks UFk, UFI and UFm

## 2.3 Motion Cabinet (Figure 1 Item 9 and Figure 14)

Figure 14 shows the general layout of the motion cabinet.



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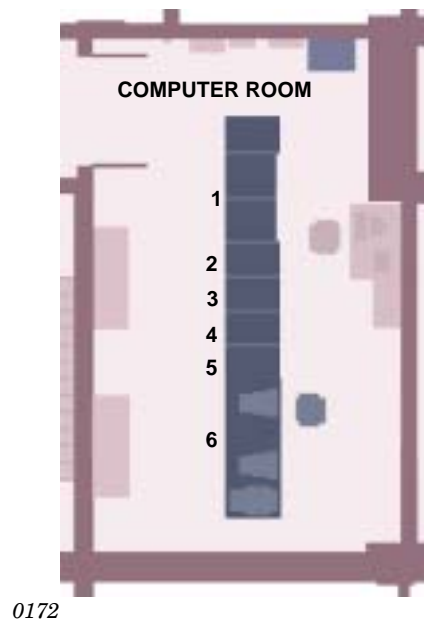
**FIGURE 14 Motion Cabinet Assembly**



### 3 COMPUTER ROOM

#### 3.1 Off Board Cabinets (Figure 1 Items 2, 3, 4, 5, 6, 7 and Figure 15)

The off board equipment cabinets include computing and interface equipment. The general layout of the off board cabinets (Cabinets G, J, M, N, the Power Cubicle and Desk Unit) are shown in Figure 15. Figures 17, 18, 19 and 20 detail the layout of the individual racks G, J, M and N.



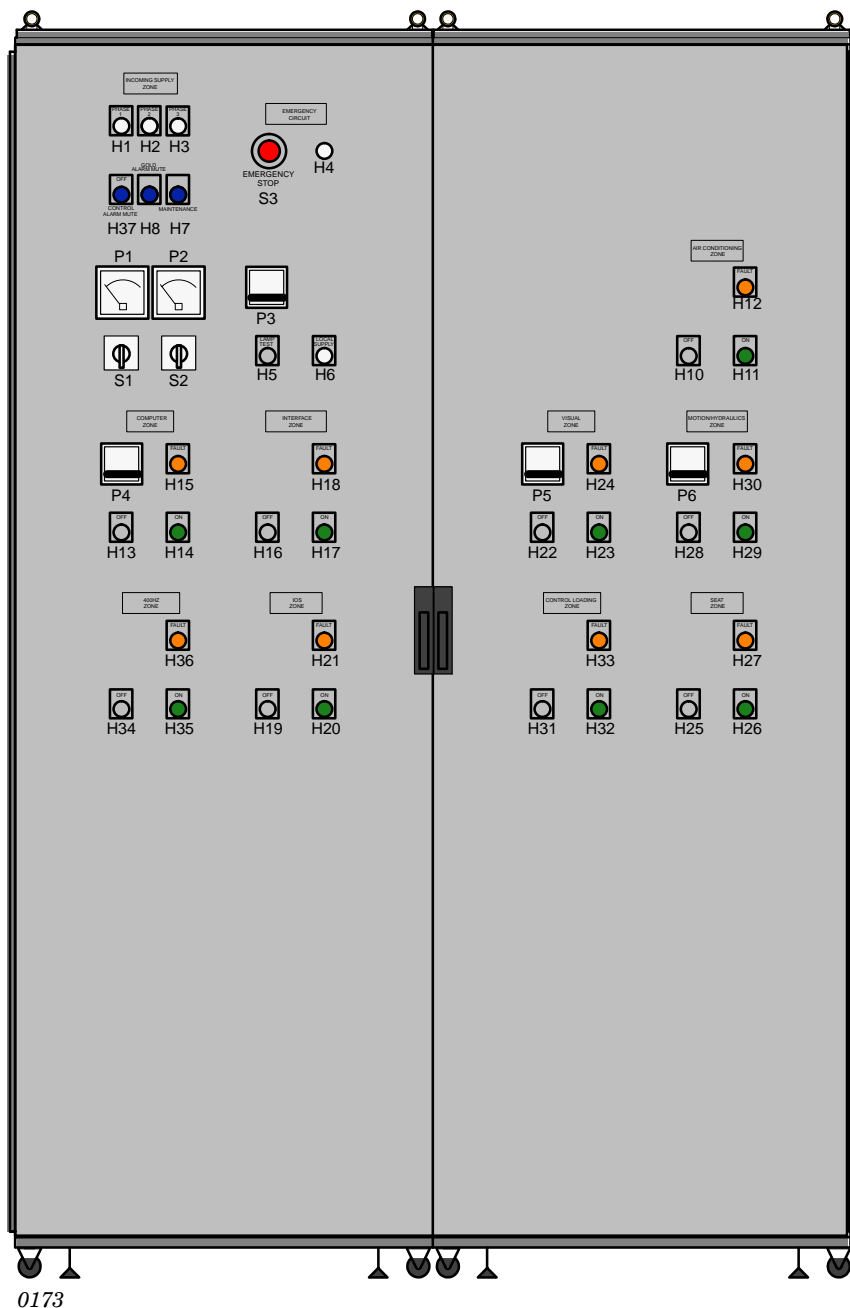
- |   |                       |   |                           |
|---|-----------------------|---|---------------------------|
| 1 | Power Cubicle         | 4 | Interface Cabinet 'N'     |
| 2 | Interface Cabinet 'G' | 5 | Interface Cabinet 'J'     |
| 3 | Interface Cabinet 'M' | 6 | Workstation Desk Unit 'H' |

**FIGURE 15 Off Board Cabinets**

FWD ➞

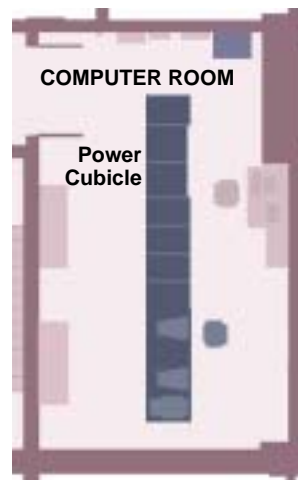
### 3.1.1 **Power Cubicle** (Figure 1 Item 2 and Figure 16)

The power cubicle consists of a 2-bay cabinet that houses all the items for the control of the simulator power.



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FIGURE 16 Power Cubicle - Front View



3.1.2 Cabinet G



- STATIC INVERTER display  
*Gh*
- STATIC INVERTER equipment  
*Gj*
- STATIC INVERTER equipment  
*Gk*
- STATIC INVERTER seats  
*Gl*
- STATIC INVERTER seats  
*Gm*
- GOLD  
REPADIS GSC  
*Ge*



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FIGURE 17 Cabinet G



AMPLIFIER  
*Ja*

SAMPLER  
*Jc*

ETHERNET SWITCH  
*Je*

RS232 SWITCH  
*Jf*

HOST COMPUTER  
*Jg*

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**FIGURE 18 Cabinet J**





RACK CB  
*Ma1*

POWER SUPPLY T28URL  
*Ma*

ELAC 1

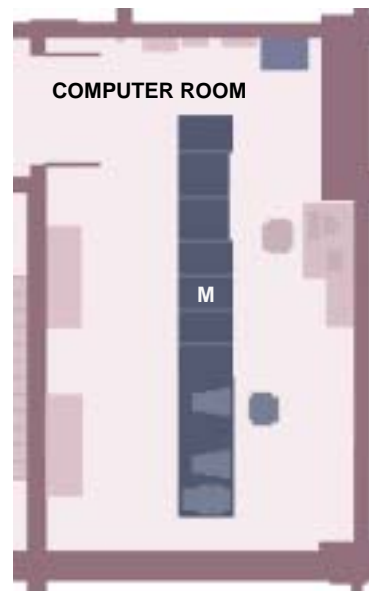
ELAC 2

ELAC 1 / ELAC 2 / SEC 3 REPADIS  
*Md*

SEC 3

AIR FLOW  
*Mk*

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**FIGURE 19 Cabinet M**



POWER JUNCTION BOX No. 3

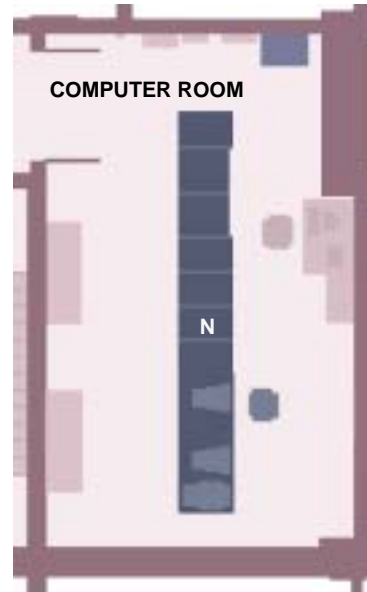
SEC 1

SEC 1 / SEC 2 REPADIS  
*Nd*

SEC 2

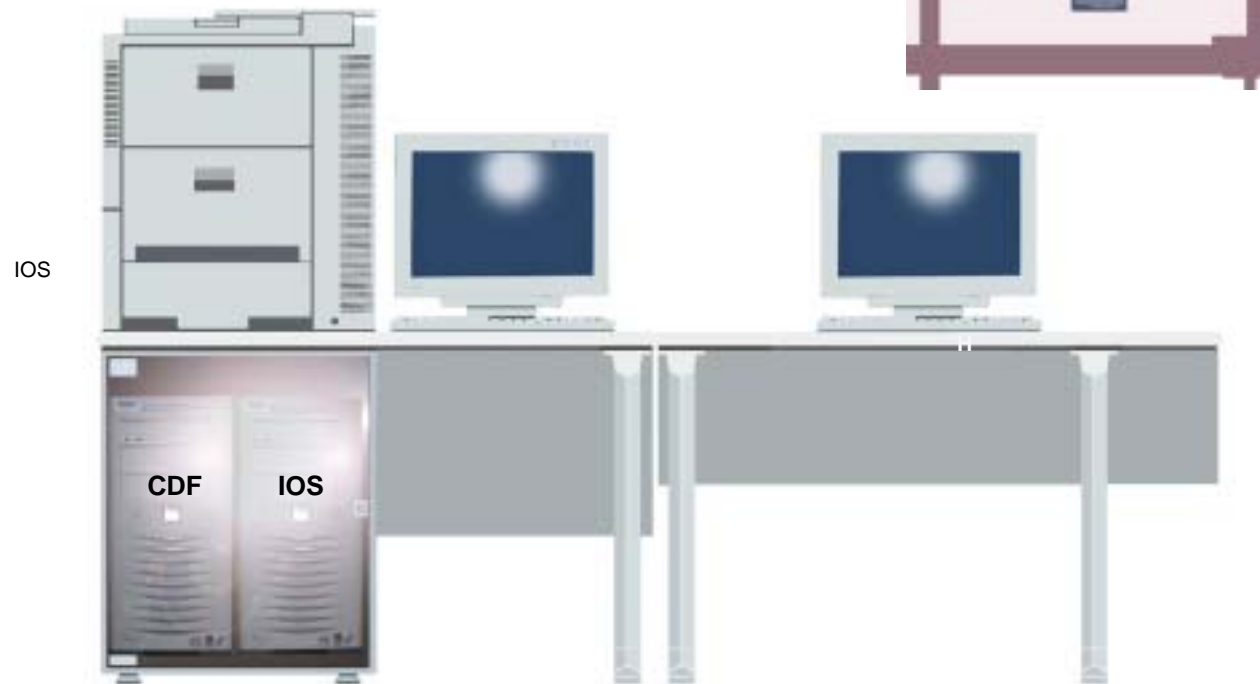
AIRFLOW  
*Nk*

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**FIGURE 20 Cabinet N**





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**FIGURE 21 Workstaton Desk Unit**