

























ORBITAL MANEUVERING SYSTEM LEFT







OVIV 1	OVIV 2	OTIV A
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE







OTIV B	OCV A	OCV B
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE







FTIV A	FTIV B	FCV A
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE







FCV B	N ₂ CV 1	N ₂ CV 2
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE

ORBITAL MANEUVERING SYSTEM RIGHT

OVIV 1	OVIV 2	OTIV A
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE


OTIV B	OCV A	OCV B
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE

FTIV A	FTIV B	FCV A
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE



FCV B	N ₂ CV 1	N ₂ CV 2
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE

PAYLOAD



POWER





PAYLOAD BAY DOOR

OPEN 

CLOSE

RADIATORS



DEPLOY 

STOW

Ku ANTENNA



DEPLOY 

STOW

DATA NETWORK



MEC 1

RUN 

SHTDOWN



MEC 2

RUN 

SHTDOWN

HUD

ON 

OFF

HUD AUX

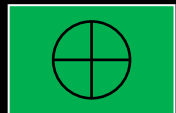
ON 

OFF

GENERAL PURPOSE COMPUTER

AC POWER DISTRIBUTION CENTER

DC POWER DISTRIBUTION CENTER

MAIN POWER



GPC 1

RUN 



HALT

GPC 2

RUN 



HALT

GPC 3

RUN 



HALT

GPC 4

RUN 



HALT

GPC 5

RUN 



HALT

PC MMU 1

ON 



OFF

PC MMU 2

ON 



OFF

INVERTER 1-3

ON 



OFF

INVERTER 4-6

ON 



OFF

INVERTER 7-9

ON 



OFF

DA 1

ON 



OFF

DA 2

ON 



OFF

DA 3

ON 



OFF

PCA 1

ON 



OFF

PCA 2

ON 



OFF

PCA 3

ON 



OFF

AC BUS 1

ON 



OFF

AC BUS 2

ON 



OFF

AC BUS 3

ON 



OFF

FUEL CELL 1

ON 



OFF

FUEL CELL 2

ON 



OFF

FUEL CELL 3

ON 



OFF

DA 1

ON 



OFF

DA 2

ON 



OFF

DA 3

ON 



OFF

PCA 1

ON 



OFF

PCA 2

ON 



OFF

PCA 3

ON 



OFF

DC BUS 1

ON 



OFF

DC BUS 2

ON 



OFF

DC BUS 3

ON 



OFF

PRIMARY
SYSTEM
RADAR









LANDING
SYSTEM
RADAR















MASTER
ALARM
RESET









FRWD REACTION CONTROL SYSTEM







He TERMINAL	RELEASE VLV	O ₂ TERMINAL
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE







ISOL LEG 1/2	ISO LEG 3/4/5	ISO VLV 1L
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE







ISO VLV 2L	ISO VLV 1 R	ISO VLV 2R
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE







ISO VLV 3UL	ISO VLV 4UC	ISO VLV 5UR
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE

AFT REACTION CONTROL SYSTEM



He TERMINAL	RELEASE VLV	O ₂ TERMINAL
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE



ISOL LEG 1/2	ISO LEG 3/4/5	ISO VLV 1L
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE



ISO VLV 2L	ISO VLV 1 R	ISO VLV 2R
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE



ISO VLV 3UL	ISO VLV 4UC	ISO VLV 5UR
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE

CRYO O₂ SYS



REAC VLV FC1
OPEN 

CLOSE



REAC VLV FC2
OPEN 

CLOSE



REAC VLV FC3
OPEN 

CLOSE



ECS SYS1 VLV
OPEN 

CLOSE

CRYO H₂ SYS







REAC VLV FC1
OPEN 

CLOSE







REAC VLV FC2
OPEN 

CLOSE







REAC VLV FC3
OPEN 

CLOSE







ECS SYS1 VLV
OPEN 

CLOSE

ORBITAL MANEUVERING SYSTEM LEFT







OVIV 1	OVIV 2	OTIV A
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE







OTIV B	OCV A	OCV B
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE







FTIV A	FTIV B	FCV A
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE







FCV B	N ₂ CV 1	N ₂ CV 2
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE

ORBITAL MANEUVERING SYSTEM RIGHT

OVIV 1	OVIV 2	OTIV A
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE

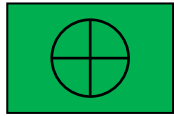
OTIV B	OCV A	OCV B
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE

FTIV A	FTIV B	FCV A
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE


FCV B	N ₂ CV 1	N ₂ CV 2
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE


PAYLOAD

POWER




PAYLOAD BAY DOOR


OPEN 



CLOSE


RADIATORS


DEPLOY 



STOW

Ku ANTENNA


DEPLOY 




STOW

DATA NETWORK


MEC 1


RUN 



SHTDOWN


MEC 2


RUN 



SHTDOWN


HUD


ON 



OFF

HUD AUX

ON 



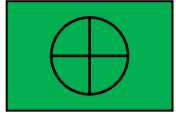
OFF

GENERAL PURPOSE COMPUTER

AC POWER DISTRIBUTION CENTER

DC POWER DISTRIBUTION CENTER

MAIN POWER



GPC 1

RUN 



HALT

GPC 2

RUN 



HALT

GPC 3

RUN 



HALT

GPC 4

RUN 



HALT

GPC 5

RUN 



HALT

PC MMU 1

ON 



OFF

PC MMU 2

ON 



OFF

INVERTER 1-3

ON 



OFF

INVERTER 4-6

ON 



OFF

INVERTER 7-9

ON 



OFF

DA 1

ON 



OFF

DA 2

ON 



OFF

DA 3

ON 



OFF

PCA 1

ON 



OFF

PCA 2

ON 



OFF

PCA 3

ON 



OFF

AC BUS 1

ON 



OFF

AC BUS 2

ON 



OFF

AC BUS 3

ON 



OFF

FUEL CELL 1

ON 



OFF

FUEL CELL 2

ON 



OFF

FUEL CELL 3

ON 



OFF

DA 1

ON 



OFF

DA 2

ON 



OFF

DA 3

ON 



OFF

PCA 1

ON 



OFF

PCA 2

ON 



OFF

PCA 3

ON 



OFF

DC BUS 1

ON 



OFF

DC BUS 2

ON 



OFF

DC BUS 3

ON 



OFF

PRIMARY
SYSTEM
RADAR









LANDING
SYSTEM
RADAR















MASTER
ALARM
RESET









FRWD REACTION CONTROL SYSTEM







He TERMINAL	RELEASE VLV	O ₂ TERMINAL
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE







ISOL LEG 1/2	ISO LEG 3/4/5	ISO VLV 1L
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE







ISO VLV 2L	ISO VLV 1 R	ISO VLV 2R
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE







ISO VLV 3UL	ISO VLV 4UC	ISO VLV 5UR
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE

AFT REACTION CONTROL SYSTEM



He TERMINAL	RELEASE VLV	O ₂ TERMINAL
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE



ISOL LEG 1/2	ISO LEG 3/4/5	ISO VLV 1L
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE



ISO VLV 2L	ISO VLV 1 R	ISO VLV 2R
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE



ISO VLV 3UL	ISO VLV 4UC	ISO VLV 5UR
OPEN 	OPEN 	OPEN 
		
CLOSE	CLOSE	CLOSE

CRYO O₂ SYS



REAC VLV FC1
OPEN 

CLOSE



REAC VLV FC2
OPEN 

CLOSE



REAC VLV FC3
OPEN 

CLOSE



ECS SYS1 VLV
OPEN 

CLOSE

CRYO H₂ SYS

REAC VLV FC1
OPEN 

CLOSE

REAC VLV FC2
OPEN 

CLOSE

REAC VLV FC3
OPEN 

CLOSE

ECS SYS1 VLV
OPEN 

CLOSE