

# International Space Station Command and Data Group Portable Onboard Computers

## All Expedition Flights

**Mission Operations Directorate  
Operations Division**

**December 21, 2000**

*These procedures are available  
electronically on the SODF Homepage  
at <http://ftpproc.jsc.nasa.gov>*

National Aeronautics and  
Space Administration

**Lyndon B. Johnson Space Center**  
Houston, Texas



**INTERNATIONAL SPACE STATION  
COMMAND AND DATA GROUP  
PORTABLE ONBOARD COMPUTERS  
ALL EXPEDITION FLIGHTS**

December 21, 2000

APPROVED BY:

---

Carolyn Shlatz  
Book Manager

---

Michael T. Hurt  
Supervisor, Procedures and Portable Computing Section

---

Jeffery L. Wilson  
SODF Coordinator

ACCEPTED BY:

---

Michael T. Hurt  
SODF Manager

This document is under the configuration control of the Systems Operations Data File Control Board (SODFCB).

Incorporates the following:			
CR:	POCU36	POCU39	C&DHU92 R1
	POCU37	POCU40	
	POCU38	PCOU41	

**INTERNATIONAL SPACE STATION  
COMMAND AND DATA GROUP  
PORTABLE ONBOARD COMPUTERS  
ALL EXPEDITION FLIGHTS**

**LIST OF EFFECTIVE PAGES**

21 DEC 00

Sign Off .....	* 21 DEC 00	36 .....	14 NOV 00
ii .....	* 21 DEC 00	37 .....	14 NOV 00
iii .....	* 21 DEC 00	38 .....	20 DEC 00
iv .....	* 21 DEC 00	39 .....	14 NOV 00
v .....	21 DEC 00	40 .....	14 NOV 00
vi .....	21 DEC 00	41 .....	14 NOV 00
1 .....	21 DEC 00	42 .....	14 NOV 00
2 .....	21 DEC 00	43 .....	14 NOV 00
3 .....	14 NOV 00	44 .....	14 NOV 00
4 .....	14 NOV 00	45 .....	14 NOV 00
5 .....	14 NOV 00	46 .....	20 DEC 00
6 .....	14 NOV 00	47 .....	14 NOV 00
7 .....	14 NOV 00	48 .....	14 NOV 00
8 .....	20 DEC 00	49 .....	14 NOV 00
9 .....	18 DEC 00	50 .....	20 DEC 00
10 .....	18 DEC 00	51 .....	14 NOV 00
11 .....	18 DEC 00	52 .....	20 DEC 00
12 .....	18 DEC 00	53 .....	19 DEC 00
13 .....	18 DEC 00	54 .....	19 DEC 00
14 .....	18 DEC 00	55 .....	14 NOV 00
15 .....	18 DEC 00	56 .....	14 NOV 00
16 .....	18 DEC 00	57 .....	14 NOV 00
17 .....	18 DEC 00	58 .....	20 DEC 00
18 .....	18 DEC 00	59 .....	20 DEC 00
19 .....	18 DEC 00	60 .....	20 DEC 00
20 .....	18 DEC 00	61 .....	20 DEC 00
21 .....	14 NOV 00	62 .....	20 DEC 00
22 .....	14 NOV 00	63 .....	14 NOV 00
23 .....	14 NOV 00	64 .....	14 NOV 00
24 .....	20 DEC 00	65 .....	14 NOV 00
25 .....	17 DEC 00	66 .....	14 NOV 00
26 .....	17 DEC 00	67 .....	14 NOV 00
27 .....	17 DEC 00	68 .....	14 NOV 00
28 .....	17 DEC 00	69 .....	14 NOV 00
29 .....	17 DEC 00	70 .....	20 DEC 00
30 .....	17 DEC 00	71 .....	14 NOV 00
31 .....	17 DEC 00	72 .....	14 NOV 00
32 .....	20 DEC 00	73 .....	14 NOV 00
33 .....	21 DEC 00	74 .....	20 DEC 00
34 .....	21 DEC 00	75 .....	14 NOV 00
35 .....	14 NOV 00	76 .....	14 NOV 00

\* - Omit from flight book

77 .....	19 DEC 00	128 .....	14 DEC 00
78 .....	19 DEC 00		
79 .....	19 DEC 00		
80 .....	20 DEC 00		
81 .....	14 NOV 00		
82 .....	20 DEC 00		
83 .....	14 DEC 00		
84 .....	14 DEC 00		
85 .....	14 NOV 00		
86 .....	20 DEC 00		
87 .....	14 NOV 00		
88 .....	20 DEC 00		
89 .....	14 NOV 00		
90 .....	20 DEC 00		
91 .....	21 DEC 00		
92 .....	21 DEC 00		
93 .....	14 NOV 00		
94 .....	14 NOV 00		
95 .....	14 NOV 00		
96 .....	20 DEC 00		
97 .....	14 NOV 00		
98 .....	14 NOV 00		
99 .....	14 NOV 00		
100 .....	14 NOV 00		
101 .....	14 NOV 00		
102 .....	14 NOV 00		
103 .....	14 NOV 00		
104 .....	20 DEC 00		
105 .....	14 DEC 00		
106 .....	14 DEC 00		
107 .....	14 DEC 00		
108 .....	20 DEC 00		
109 .....	21 DEC 00		
110 .....	21 DEC 00		
111 .....	14 NOV 00		
112 .....	20 DEC 00		
113 .....	16 NOV 00		
114 .....	20 DEC 00		
115 .....	14 NOV 00		
116 .....	14 NOV 00		
117 .....	14 NOV 00		
118 .....	20 DEC 00		
119 .....	14 NOV 00		
120 .....	14 NOV 00		
121 .....	14 NOV 00		
122 .....	20 DEC 00		
123 .....	21 DEC 00		
124 .....	21 DEC 00		
125 .....	14 DEC 00		
126 .....	14 DEC 00		
127 .....	14 DEC 00		

## CONTENTS

<u>ACTIVATION AND CHECKOUT</u> .....	1
<u>OPS LAN</u>	
1.201 EARLY COMM OCA SETUP .....	3
1.202 SSC NETWORK RECONFIGURE FOR LAB .....	9
1.204 SSC PRINTER SETUP .....	21
1.206 SSC PHASE II NETWORK SETUP .....	25
<u>NOMINAL</u> .....	33
<u>OPS LAN</u>	
2.201 EARLY COMM CREW CALL - PRE-LAB .....	35
2.202 EARLY COMM VIDEO TELECONFERENCE .....	39
2.203 EARLY COMM OCA DEACTIVATION .....	41
2.204 SSC BATTERY CONDITIONING .....	43
2.205 SSC DATA BACKUP .....	45
2.207 SSC LATE UPDATE .....	47
2.208 SSC NETWORK TIME UPDATE .....	49
2.209 SSC PCMCIA CARD CHANGEOUT .....	51
2.210 SSC RF LAN SITE SURVEY .....	53
2.211 SSC SOFTWARE AUTO RELOAD .....	55
2.212 EARLY COMM OCA1 SOFTWARE AUTO RELOAD .....	57
<u>PCS</u>	
2.301 EPCS SETUP - ISS .....	59
2.302 ONBOARD FILE TRANSFER .....	63
2.303 PCS DEACTIVATION .....	67
2.304 PCS LOG FILE SAVE .....	69
2.305 PCS REBOOT .....	71
2.306 PCS RECONNECT .....	73
2.307 PCS SCREEN CAPTURE .....	75
2.308 PCS SETUP .....	77
2.309 TRANSFERRING LOG FILES TO FLOPPY DISK .....	81
<u>PDA</u>	
2.501 PDA LOAD BACKUP .....	83
<u>THINKPAD</u>	
2.401 THINKPAD BATTERY CHANGEOUT .....	85
2.402 THINKPAD CD ROM/FLOPPY DRIVE CHANGEOUT .....	87
2.403 THINKPAD HARD DRIVE CHANGEOUT .....	89
<u>CORRECTIVE</u> .....	91
<u>OPS LAN</u>	
4.202 SSC PRINTER MAINTENANCE .....	93
4.203 SSC NETWORK TROUBLESHOOTING .....	97
4.204 SSC SOFTWARE ANOMALY .....	99
4.205 SSC DATA RESTORE .....	101
4.303 THINKPAD CMOS REINITIALIZATION .....	103

<u>PDA</u>	
4.401 PDA LOAD RESTORE.....	105
<u>REFERENCE</u> .....	109
<u>OPS LAN</u>	
5.201 OCA DIRECTORY STRUCTURE .....	111
5.202 SSC USER LOGON ACCOUNTS .....	113
5.203 SSC WINDOWS KEYBOARD REFERENCE.....	115
5.204 CREATING AN .AVI FILE FROM CAMCORDER PLAYBACK .....	119
<u>CUE CARDS</u> .....	123
6.101 THINKPAD CUE CARDS.....	125

ACTIVATION AND CHECKOUT



This Page Intentionally Blank

# 1.201 EARLY COMM OCA SETUP

## 1. UNSTOW

- FGB1D113 Collapsible Transfer Bag contains the following items
  - OCA1 Docking Station (Laptop and Expansion Chassis)
  - OCA1 Data Cable for Node 1
  - EECOM RFPDB18/VTS OCA CBL SED16103021-301
  - OCA1 Power Cable for Node 1
  - ECOMM VTS CBL SED16103023-301
  - OCA1 Power Cables and Power Isolator for FGB
  - FGB PWR CABLE SED39134107-301
  - DC Power Isolator SED39134112-301
  - FGB VTSPC ISO PWR CBL SED39134120-301
  - Headset
  - Mini-cam
  - Mini-cam Cable
  - Speakers

NOTE

The following OCA1 Data cables for the FGB are taped in ΠΓO between Planes 1 and 2.

- Wire Harness Assy - 1553 Data Bus IF74151-1
- Wire Harness Assy - 1553 Data Bus IF74153-1
- PDGF/VTSPC OCA CBL - SED39134125-301

- OCA1 2. √Expansion Chassis power – Off

## 3. INHIBITING POWER TO OCA1

If in FGB

FGB 427  
(227)

NOTE

Power from either 427 or 227 may be used for OCA1.

On panel OUTLET PWR-10/3 AMPS (PEC-10/3)  
 √Switch – Off

NOD1S4

On RF PWR DIST BOX ORU, verify ECOMM RFPDB18/JUMPER is installed on J18.

If in Node 1

Notify **MCC** before performing this step.

If MCDS required

CRT

SM 203 EARLY COMM  
 N1RS2A RPC 11 OP – ITEM 16 EXEC (\*)

If PCS required

PCS

nav C&T  
 Early S-Band Comm Management  
 'System Configuration'

sel Power Control Display  
 sel N1RS2A RPC 11

**cmd N1RS2A\_RPC\_11\_OP Execute**

√N1RS2A RPC 11 – Off

## 1.201 EARLY COMM OCA SETUP

(POC/2R - ALL/FIN B) Page 2 of 5 pages

### 4. CONFIGURING POWER CABLES

If in FGB, configure cables per Figure 1.

If in Node 1, configure cables per Figure 3.

5. √Expansion Chassis airflow ports not obstructed

### 6. CONFIGURING DATA CABLES

If in FGB, configure cables per Figure 2.

If in Node 1, configure cables per Figure 4.

For Video Conference, configure cables per {P/TV 104 ECOMM VIDEO CONFERENCE} (SODF: P/TV SPEC: SCENES).

### 7. ENABLING POWER TO OCA1

If in FGB

FGB 427  
(227)  
DC Pwr  
Isolator

On panel OUTLET PWR-10/3 AMPS (P5C-10/3)  
Switch → On  
√Power Isolator Switch – On

If in Node 1

Notify **MCC** before performing this step.

If MCDS required

CRT

**SM 203 EARLY COMM**  
N1RS2A RPC 11 CL – ITEM 15 EXEC (\*)

If PCS required

PCS

nav C&T  
**Early S-Band Comm Management**  
'System Configuration'

sel Power Control Display  
sel N1RS2A RPC 11

**cmd N1RS2A\_RPC\_11\_CL Execute**

√N1RS2A RPC 11 – On

OCA1

Expansion Chassis power → On  
OCA1 power → On

8. At Startup Menu, sel "Docked" configuration

#### NOTE

KFX software will be initiated upon bootup for SSCs with OCA card installed.

- √'KFX' icon Mini-Window appears
- √TDRSS LINK STATUS display appears, then:
- √OCA-ORBITER SEND: 128 Kbps

```

*****
If SEND rate out of configuration
sel OPTIONS
sel DOWNLINK RATE 128 Kbps, as required
*****
  
```

9. Notify **MCC** when complete.

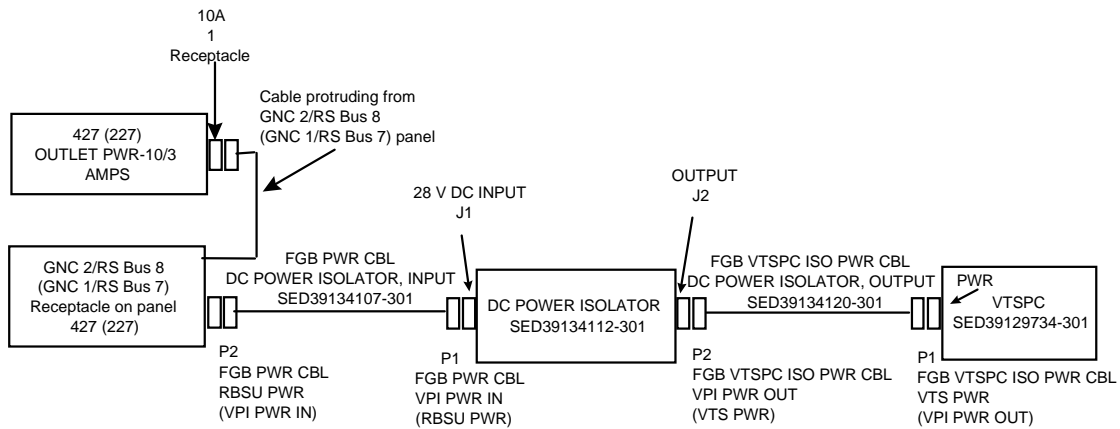


Figure 1.- Early Comm FGB OCA1 Power.

# 1.201 EARLY COMM OCA SETUP

(POC/2R - ALL/FIN B)

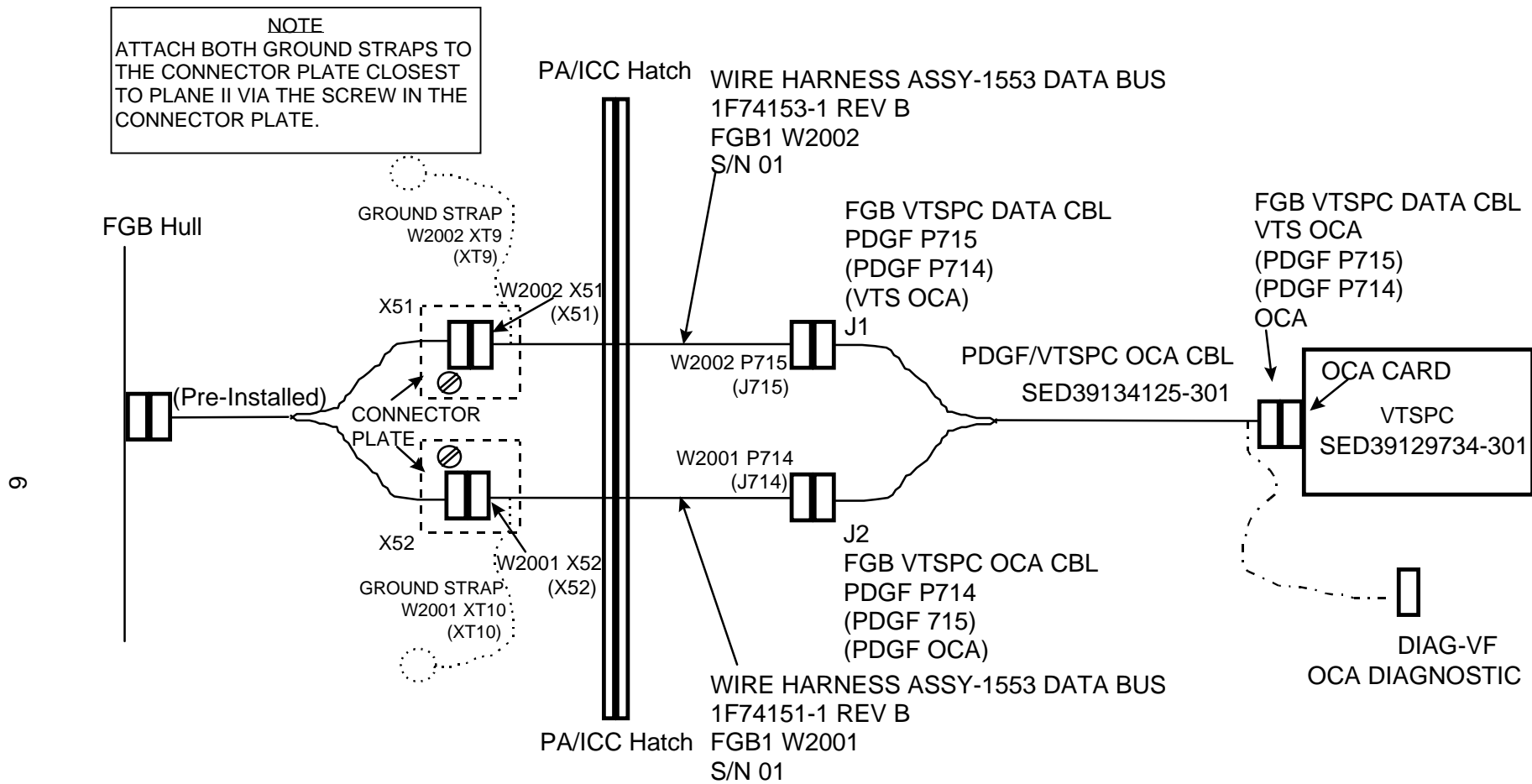


Figure 2.- Early Comm FGB OCA1 Data.

# 1.201 EARLY COMM OCA SETUP

(POC/2R - ALL/FIN B)

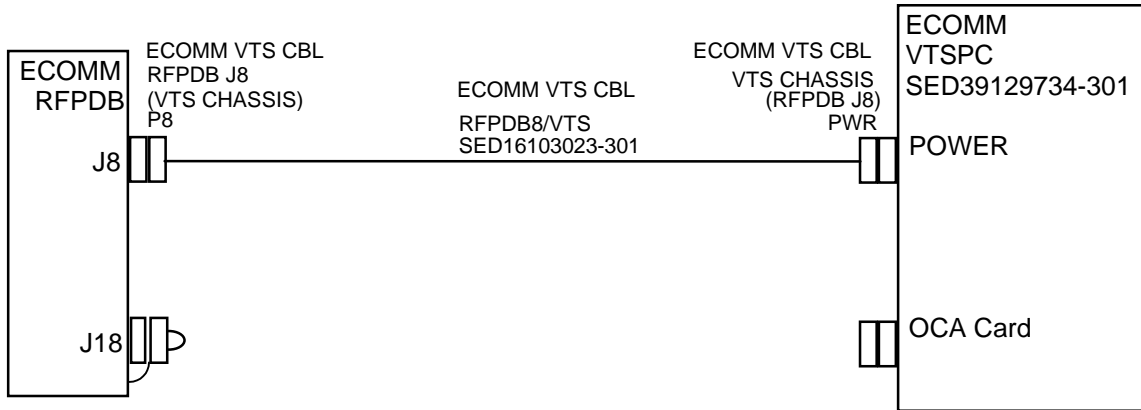
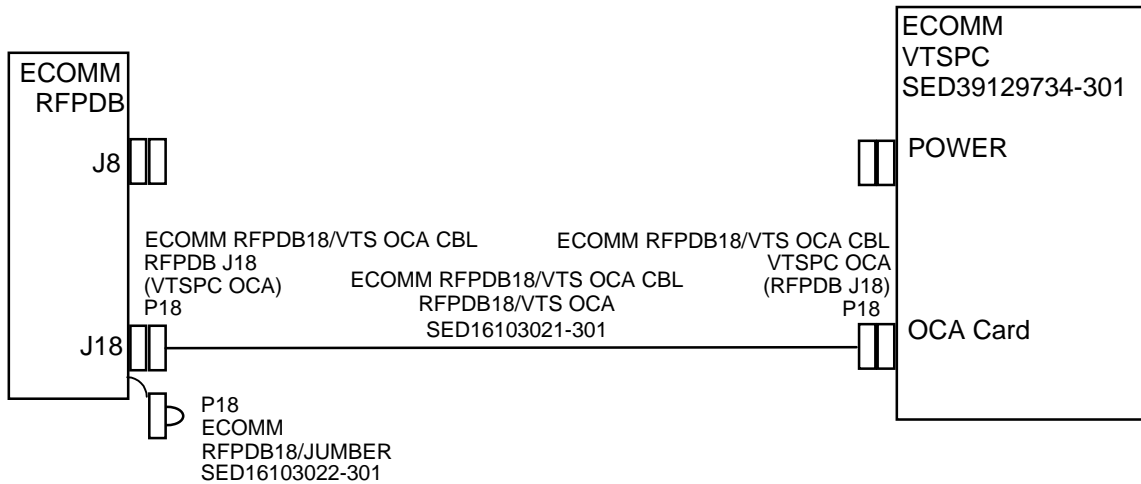


Figure 3.- Early Comm NODE OCA1 Power.



NOTE: After removal from J18, the ECOMM RFPDB18/JUMPER should be capped with the soft cover attached to it. The jumper should then be the RF PWR DIST BOX.

Figure 4.- Early Comm NODE OCA1 Data.

This Page Intentionally Blank

## 1.202 SSC NETWORK RECONFIGURE FOR LAB

(POC/5A - ALL/FIN B)

Page 1 of 12 pages

1. UNSTOW
  - TBD SSC ThinkPad 4, 5, and 6  
Cue Cards for SSC 4, 5, and 6  
SSC Desk and Mounting Bracket
  - TBD ThinkPad Auto Loader Floppy disk (three)  
External floppy drive case (three)  
Floppy drive (three)
  - CD Case SSC 5A Client Reload CD-ROM disk  
SSC 5A Server Reload CD-ROM disk  
PC Hard Card labeled "SSC File Server Full Backup"
  - TBD US DC Power Supply (five)  
US DC Power Cable (three)  
US DC Power Cable, 25 feet (two)  
DC Power Supply Adapter Cable (five)
  - TBD RF LAN Access Point (two)  
RF LAN PC Card (two)
  - SM\_313 Ethernet PC Card and Cable (two)  
Ethernet 10Base2 Cable, 25 feet  
Ethernet 10Base2 Cable, 3 feet  
Ethernet T-Connectors  
Ethernet Terminators  
Ethernet Barrel Connectors  
Cable Ties
  - TBD Mass Storage Device (MACE SILO 1)  
Adaptec SCSI PC Card and Cable  
Storage Device Power Cable (W-cable)

Refer to Diagram 1 for schematic of SSC Network LAB Configuration.

### 2. BACKING UP AND RELOADING SSC FILE SERVER

√**MCC** to ensure no OCA uplink in progress

#### NOTE

1. Do not run additional programs on the SSC File Server while performing backup.
2. Backup should take 1 --- 15 minutes depending upon number of files.

- FGB  
SSC FS
- Insert PC Hard Card labeled "File Server Full Backup" into PCMCIA slot extender.  
Insert PCMCIA slot extender into laptop.

PC Card Director for Windows NT




## 1.202 SSC NETWORK RECONFIGURE FOR LAB

(POC/5A - ALL/FIN B)

Page 2 of 12 pages

sel OK  
sel Station Apps folder from desktop  
sel Ultrabac Icon  
sel Full Backup Icon

sel Yes

Confirm hard disk indicator   
is active on the keyboard LCD screen.

sel OK

Eject PCMCIA slot extender.

sel OK

Disconnect PC Hard Card from PCMCIA slot extender.  
Stow "File Server Backup" PC Hard Card.

SSC FS

Shut down SSC File Server  
sel Start | Shut Down | Shut Down | OK

Wait while computer saves data to hard drive, ~45 seconds.

Once  screen appears  
SSC FS pwr sw → Off

SSC FS

Connect external floppy drive.  
Insert Auto Loader floppy disk.  
While holding down the F1 button (continue holding until Easy-Setup  
screen appears)  
SSC FS ThinkPad pwr → On

sel Config  
sel Initialize  
sel OK  
sel Exit  
sel Restart  
sel OK

Insert SSC File Server Reload CD-ROM disk.

## 1.202 SSC NETWORK RECONFIGURE FOR LAB

(POC/5A - ALL/FIN B)

Page 3 of 12 pages

If CD-ROM disk is not inserted within 45 seconds

Autoloader Start Menu

Input 1. Reload Hard Disk

### NOTE

1. The reload process is automatic and will take 15 --- 20 minutes to complete.
2. The computer will restart several times during this process.
3. Step 3 can be performed at the same time.

When on-screen prompt appears, eject floppy and CD ROM disk.

Autoloader Reconfiguration Summary Autoloader

ThinkPad pwr → Off

### 3. SETTING UP DESK AND SSC 5 IN THE LAB

LAB  
SSC 5      Mount SSC desk in LAB for SSC 5.  
Secure LAB SSC5 laptop to one of the desks.  
Apply cue card labeled "SSC 5" to ThinkPad.  
Refer to Diagram 1.

LAB UOP      √UOP pwr sw – Off  
LAB1P5-J4

US DC Power Cable →|← UOP LAB1P5-J4  
US DC Power Cable →|← US DC Power Supply  
DC Power Supply Adapter Cable →|← US DC Power Supply  
DC Power Supply Adapter Cable →|← SSC 5 power port

SSC 5      Insert Ethernet PC Card into bottom PCMCIA slot.  
If desired, attach PC card strain relief.

### 4. MOVING SSC FILE SERVER FROM FGB TO LAB

FGB  
SSC FS      √SSC FS ThinkPad pwr – Off

Pwr Sply  
RbS      RS/ORB DC Pwr Sply sw → Off  
RbS sw → Off

DC Pwr Sply adapter cable →|← SSC FS ThinkPad

SSC FS      Ethernet T-Connector →|← Ethernet PC card and cable

## 1.202 SSC NETWORK RECONFIGURE FOR LAB

(POC/5A - ALL/FIN B)

Page 4 of 12 pages

Leave Ethernet PC card and cable in SSC FS.  
Move SSC FS from FGB to LAB.  
Refer to Diagram 1.

LAB UOP   √UOP pwr sw – Off  
LAB1SD4-J4 √US DC pwr sply sw – Off  
Pwr Sply

Storage Device pwr cable (W-cable) →|← UOP LAB1SD4-J4  
Storage Device pwr cable (W-cable) →|←US DC pwr sply  
DC pwr sply adapter cable →|← US DC pwr sply  
DC pwr →|← SSC File Server pwr port

### NOTE

Do not power on SSC File Server until step 5 is complete.

## 5. CONNECTING MACE 1 TO SSC FILE SERVER

LAB UOP   √UOP pwr sw – Off  
LAB1SD4-J4 √US DC pwr sply sw – Off  
Pwr Sply

Storage Device pwr cable (W-cable) →|← MACE 1 pwr port

Adaptec SCSI PC card and cable →|← top MACE SCSI connector  
SCSI terminator →|← bottom MACE SCSI connector

Refer to Diagram 1.

Verify SCSI terminator is attached to back of MACE 1.

SSC FS     Insert Adaptec SCSI PC Card and Cable into PCMCIA slot.

LAB UOP     UOP pwr sw → On  
LAB1SD4-J4 US DC pwr sply sw → On  
Pwr Sply

SSC FS     SSC File Server ThinkPad power → On

## 6. MOVING SSC 3 FROM NODE TO FGB

NODE UOP   √UOP pwr sw – Off  
NOD1PD4-J3

DC pwr sply adapter cable →|← SSC 3 ThinkPad

SSC 3     Ethernet T-Connector →|← Ethernet PC card and cable

Leave Ethernet PC card and cable in SSC 3.  
Move SSC 3 from NODE to FGB.

## 1.202 SSC NETWORK RECONFIGURE FOR LAB

(POC/5A - ALL/FIN B)

Page 5 of 12 pages

FGB           √RS/ORB DC Pwr Sply sw – Off  
Pwr Sply  
RbS           √RbS sw – off  
                DC Pwr Sply adapter cable →|← SSC 3 ThinkPad

SSC 3           Ethernet T-Connector →|← Ethernet PC card and cable

Pwr Sply       RS/ORB DC Pwr Sply sw → On  
PCR           PCR power sw → On

### NOTE

Do not power on SSC 3 at this time.  
SSC 3 will be reloaded in step 12.

## 7. INSTALLING RF LAN ACCESS POINT 1 (MASTER)

LAB           Refer to Diagram 1 for RF LAN AP 1 installation layout.

AP1           Secure RF LAN AP 1 with patch antenna in LAB.  
Orient patch antenna cone to point toward NODE.

Ethernet T-Connector →|← RF LAN AP1

Pwr Sply       √US DC pwr sply sw – Off

Storage Device Pwr Cbl (W-cable) →|← US DC pwr sply  
DC pwr sply adapter cable →|← US DC pwr sply  
DC pwr sply adapter cable →|← RF LAN AP 1 pwr port

Pwr Sply       US DC pwr sply sw → On

AP 1           RF LAN AP1 pwr sw → On

√RF LAN AP1 power light – green, ~40 seconds

## 8. INSTALLING RF LAN ACCESS POINT 2 (SLAVE)

NODE          Refer to Diagram 1 for RF LAN AP 2 installation layout.

AP 2           Secure RF LAN AP 2 with dipole antenna in NODE.  
Orient dipole antenna to point toward the LAB.

Terminator →|← Ethernet T-Connector  
Ethernet T-Connector →|← RF LAN AP2

NODE UOP     √UOP pwr sw – Off  
NOD1PD4-J3

## 1.202 SSC NETWORK RECONFIGURE FOR LAB

(POC/5A - ALL/FIN B)

Page 6 of 12 pages

US DC pwr cable →|← UOP NOD1PD4-J3  
US DC pwr cable →|← US DC pwr sply  
DC pwr sply adapter cable →|← US DC pwr sply  
DC pwr sply adapter cable →|← RF LAN AP 2 pwr port

NODE UOP UOP pwr sw → On  
NOD1PD4-J3

AP 2 RF LAN AP 2 pwr sw → On

√RF LAN AP 2 power light – green, ~40 seconds

### 9. CONNECTING COMPONENTS TO LAB ETHERNET BACKBONE

LAB Construct Ethernet hardwire data backbone per Diagram 1.

AP1 Ethernet 10Base2 Cable →|← RF LAN AP1 Ethernet T-Connector

AP2 Ethernet 10Base2 Cable →|← RF LAN AP2 Ethernet T-Connector

SSC FS Ethernet T-Connector with Terminator →|← Ethernet PC card and cable  
Ethernet 10Base2 Cable →|← SSC FS Ethernet T-Connector

SSC5 Ethernet T-Connector with Terminator →|← Ethernet PC card and cable  
Ethernet 10Base2 Cable →|← SSC5 Ethernet T-Connector

### 10. POWERING ON SSC 5 IN THE LAB

LAB Verify SSC FS is connected via Ethernet cable in the LAB.  
Verify SSC FS is powered on in the LAB.  
Verify SSC 5 is connected via Ethernet cable in the LAB.  
Verify AP 1 is connected via Ethernet cable in the LAB.  
Verify AP 2 is connected via Ethernet cable in the NODE.

LAB UOP UOP pwr sw → On

LAB1P5-J4

Pwr Sply US DC pwr sply sw → On

SSC 5 SSC pwr sw → On

If Windows Protection Error appears

ThinkPad pwr → Off

ThinkPad pwr → On

Input standard crew personal or generic crew logon.

sel OK

√PC Card (PCMCIA) status icon  appears in the system tray

## 1.202 SSC NETWORK RECONFIGURE FOR LAB

(POC/5A - ALL/FIN B)

Page 7 of 12 pages

- LAB  
SSC 5
11. [VERIFYING SSC 5 TO SSC FS CONNECTIVITY IN THE LAB](#)  
Select PingMaster icon  from system tray.

PingMaster 2000

sel Ping Primary

√File Server Coax icon green and good response status, ~15 seconds

If PingMaster File Server icon – green and good response status  
Proceed to step 12.

Else if PingMaster SSC File Server icon  yellow or red

Perform {4.203 [SSC NETWORK TROUBLESHOOTING](#)} (SODF:  
POC: CORRECTIVE: OPS LAN), then:  
Repeat step 11.

12. [RELOADING OF SSC 3, 2, AND 1 WITH CLIENT CD-ROM DISK](#)

**NOTE**

Only SSC 3 (FGB), SSC 2 and 1 (SM) need to  
be reloaded with the Client CD-ROM disk.

√**MCC** to verify any SSC client software load changes

FGB(SM)  
SSC 3(2,1) Shut down SSC 3 in FGB  
sel Start | Shut Down | Shut Down | OK

Connect external floppy drive case.  
Insert Auto Loader floppy disk.

While holding down the F1 button (continue holding until Easy-Setup  
screen appears)  
ThinkPad pwr → On

sel Config  
sel Initialize  
sel OK  
sel Exit  
sel Restart  
sel OK

SSC 3(2,1) Insert SSC Client CD-ROM disk.

If CD-ROM disk is not inserted within 45 seconds

Autoloader Start Menu

Input 1. Reload Hard Disk

## 1.202 SSC NETWORK RECONFIGURE FOR LAB

(POC/5A - ALL/FIN B)

Page 8 of 12 pages

### NOTE

1. The reload process is automatic and will take 15 --- 20 minutes to complete.
2. The computer will restart several times during this process.
3. Step 13 can be performed for each SSC after a successful reload.

When on-screen prompt appears, eject floppy and CD ROM disk.

SSC 3(2,1) ThinkPad pwr → Off

SSC 3(2,1) Repeat step 12 for SSC 2 and 1 in SM.

### 13. POWERING ON SSC 3, 2, AND 1 AFTER SUCCEFUL RELOAD

FGB(SM) ThinkPad pwr → On

SSC 3(2,1)

If Windows Protection Error appears

ThinkPad pwr → Off

ThinkPad pwr → On

sel Cancel

sel Yes to run Unique Client Configuration Program

sel a unique computer name SSC 3 (SSC 2, SSC 1) based on attached cue card and computer location

sel Update

√Network settings

sel OK

sel Yes to restart Windows

## 1.202 SSC NETWORK RECONFIGURE FOR LAB

(POC/5A - ALL/FIN B)

Page 9 of 12 pages

Input standard crew personal logon information.


For appropriate logon information, refer to [{5.202 SSC USER LOGON ACCOUNTS}](#) (SODF: POC: REFERENCE: OPS LAN).

sel OK

√PC Card (PCMCIA) status icon  appears in the system tray

Repeat step 13 for SSC 2 and 1 after successful reload.

### 14. VERIFYING SSC 3 (FGB), 2 AND 1 (SM) TO SSC FS (LAB) CONNECTIVITY

FGB(SM)  
SSC 3(2,1) Select PingMaster icon  from system tray.

PingMaster 2000

sel Ping Primary

√File Server Coax icon green and good response status, ~15 seconds

If PingMaster File Server icon – green and good response status  
Proceed to verify next SSC client.

Else if PingMaster SSC File Server icon  yellow or red

Perform [{4.203 SSC NETWORK TROUBLESHOOTING}](#) (SODF:  
POC: CORRECTIVE: OPS LAN), then:  
Repeat step 14.

Repeat step 14 for SSC 2 and 1 in the SM.

### 15. SETTING UP SSC 4 NODE AND SSC 6 IN LAB (IF DESIRED)

NODE(LAB)  
SSC 4(6) Refer to Diagram 1 for installation of SSC 4 and 6.  
Apply cue cards labeled “SSC 4” and “SSC 6” to ThinkPad accordingly.

√UOP pwr sw – Off

US DC Power Cable →|← UOP

US DC Power Cable →|← US DC Power Supply

DC Power Supply Adapter Cable →|← US DC Power Supply

DC Power Supply Adapter Cable →|← SSC client power port

SSC 4(6) Insert RF PC card into bottom PCMCIA slot.

UOP UOP pwr sw → On

Pwr Sply US DC pwr sply sw → On

SSC 4(6) SSC 4 pwr sw → On



## 1.202 SSC NETWORK RECONFIGURE FOR LAB

(POC/5A - ALL/FIN B)

Page 10 of 12 pages

If Windows Protection Error appears

ThinkPad pwr → Off

ThinkPad pwr → On

Input standard crew personal or generic crew logon.

sel OK

√PC Card (PCMCIA) status icon  appears in the system tray

Repeat step 15 for SSC 6 in the LAB.

### 16. VERIFYING FULL NETWORK CONNECTIVITY FROM SSC FILE SERVER

#### NOTE

1. Do not proceed unless all previous steps have been completed successfully.
2. Verify all SSC clients are powered on, including the ECOM OCA.

LAB  
SSC FS


Select PingMaster icon  from system tray.

sel Ping All Network button

√All status icons green, ~15 seconds

If all PingMaster icons – green and good response status

Proceed to step 17.

Else any PingMaster icon  yellow or red

Perform {4.203 SSC NETWORK TROUBLESHOOTING} (SODF:

POC: CORRECTIVE: OPS LAN), then:

Repeat step 16.

### 17. SETTING NETWORK CLOCK ON SSC FILE SERVER

LAB  
SSC FS

Press [Ctrl+Alt+Delete] to logon.

Input generic SSC File Server logon information.

For appropriate logon information, refer to {5.202 SSC USER LOGON ACCOUNTS} (SODF: POC: REFERENCE: OPS LAN).

sel OK

PCS 3

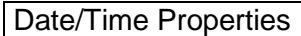
From PCS 3 or other on board clock, obtain current GMT.

## 1.202 SSC NETWORK RECONFIGURE FOR LAB

(POC/5A - ALL/FIN B)

Page 11 of 12 pages

SSC FS sel clock from system tray

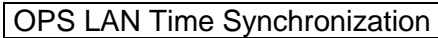


Manually adjust time to match PCS 3 or another time source.

sel OK

sel Start 

sel Ops LAN Time Update  from menu



Confirm time broadcast ~ 1 minute.

SSC (1-6) Confirm time on all SSC Clients matches time on SSC File Server.

### 18. TESTING PRINTER 1 IN THE SM

SM

BCK  BCK sw – On

RbS  RbS sw – On

PRINTER 1 Printer power button → On

Wait while printer performs cleaning cycle (up to 2 minutes).

SSC 5

sel MPV from the desktop and open any procedure

sel File | Print

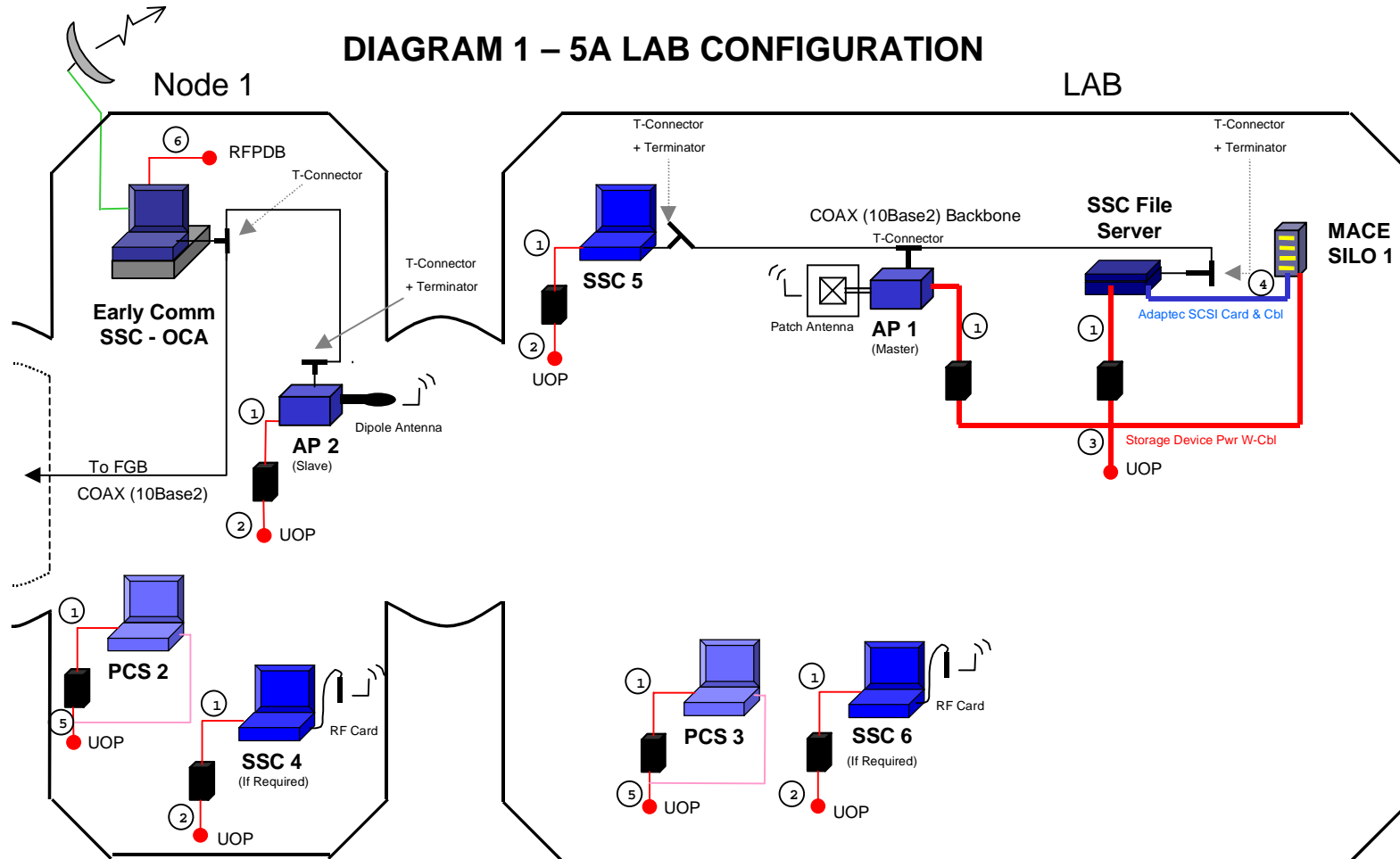
sel OK to begin printing

Exit MPV.

PRINTER 1  Print job results

Inform **MCC** network that reconfiguration is complete, and report the mounting location of major network components.

DIAGRAM 1 – 5A LAB CONFIGURATION



20

**Power Cable Legend**

- ① US DC pwr sply adapter cbl SEG39129263-301
- ② US DC pwr cbl SEG39129260-301
- ③ Storage Device pwr cbl (W-cable) SEG46117493-301
- ④ Adaptec SCSI PC card & cbl SEG46117494-301
- ⑤ US DC pwr and 1553 cbl SEZ39129268-301
- ⑥ ECOM OCA1 cbl SED16103023-301

## 1.204 SSC PRINTER SETUP

(POC/2R - ALL/FIN B) Page 1 of 3 pages

I

FGB1 302 1. UNSTOW  
Printer  
Printer Power Cable  
Printer Input Tray  
Printer Output Tray  
Philips Screwdriver  
Printer Paper

If SM setup, also unstow:  
RS Modified Printer Power Cable  
Printer Power Supply

Printer 2. ASSEMBLING PRINTER  
Align arrows on Printer Input Tray and back of Printer.  
Refer to Figure 1.

Insert white tabs on Printer Input Tray (near arrows) into black outlined slots on Printer.

Slide tray downward.

Attach Printer Input Tray to Printer (Use Phillips screwdriver on two captive screws to secure tray. Captive screws are circled in white).

Attach Printer Output Tray to Printer (four captive screws).

Insert paper.

BCK 3. POWER CONFIGURATION  
If SM  
√BCK – Off  
Printer Power Cable →|← Printer Power Port  
Printer Power Cable →|← Printer Power Supply  
RS Modified Printer Cable →|← Printer Power Supply  
RS Modified Printer Cable →|← BCK

UOP If US LAB  
√UOP – Off  
Printer Power Cable →|← Printer Power Port  
Printer Power Cable →|← UOP

## 1.204 SSC PRINTER SETUP

(POC/2R - ALL/FIN B)

Page 2 of 3 pages

### 4. WARMUP

	If in SM
BCK	BCK power switch → On Printer Power Supply switch → On Printer power button → On (light flashing)
	If in US Lab
UOP	UOP power switch → On Printer Power Supply switch → On Printer power button → On (light flashing)

√Flashing green power light while printer performs self-test (up to 3 minutes)

Printer ready when power light steady green.

### 5. PRINT QUALITY TEST

Refer to Figure 2.

Printer power button → Off (light – off)

SIMO sel Printer power button and LOAD/EJECT button (hold both for 3 seconds)

Immediately after printing page 2 (color page)

Printer power button → Off (to terminate self test)

Verify print quality of 1 black and white and 1 color text page.

If Print quality not acceptable

Go to {4.202 SSC PRINTER MAINTENANCE}, step 3 (SODF: POC: CORRECTIVE, OPS LAN).

# 1.204 SSC PRINTER SETUP

(POC/2R - ALL/FIN B)

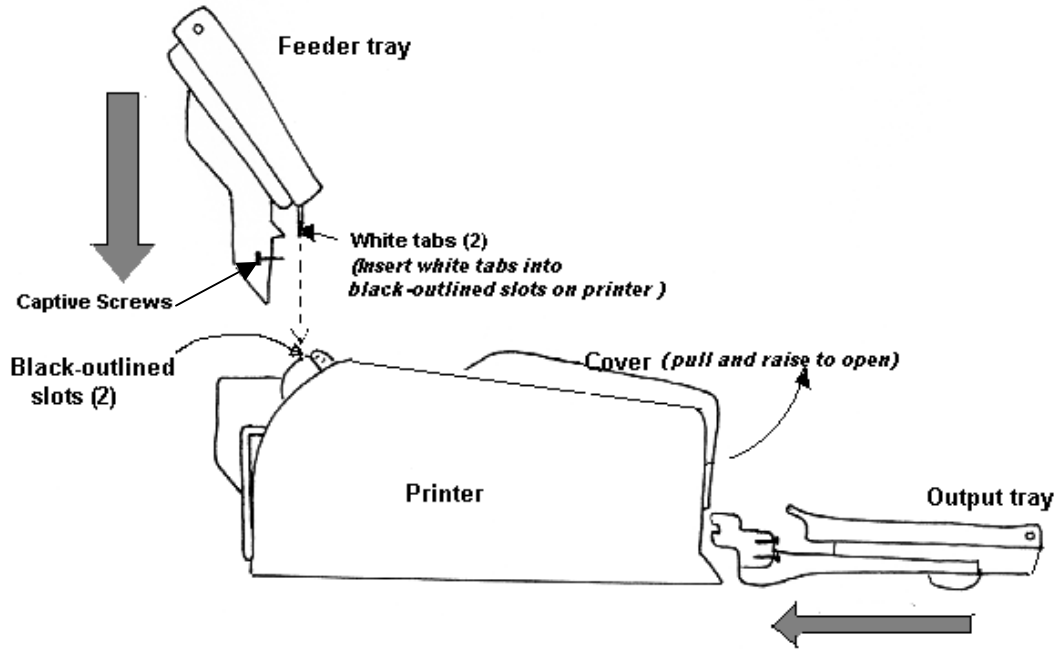
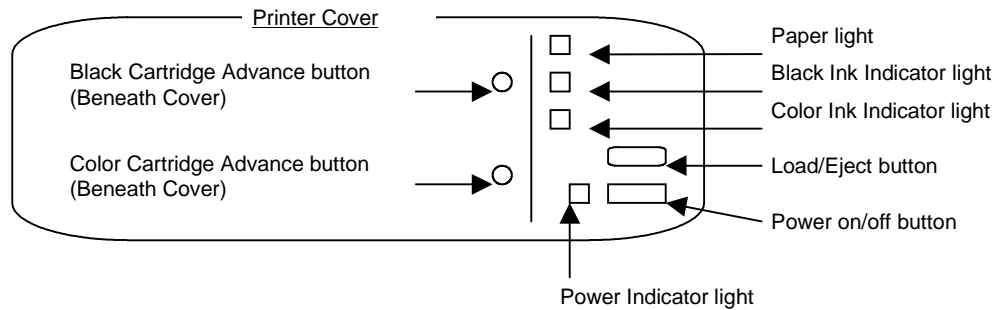


Figure 1.- Sideview of Printer and Trays (ready for assembly).

## PRINTER Top View



## PRINTER Back View

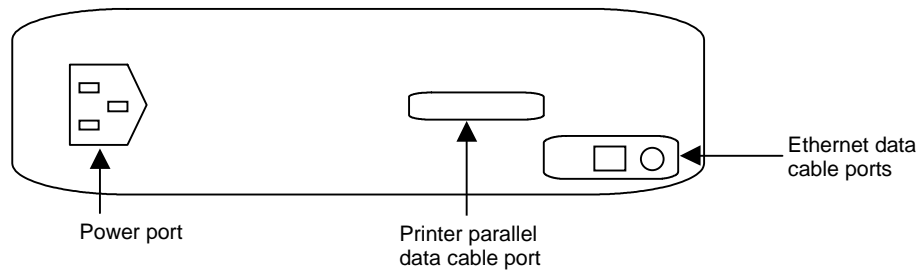


Figure 2.- Printer View.

This Page Intentionally Blank

## 1.206 SSC PHASE II NETWORK SETUP

(POC/2R - 5A/FIN C) Page 1 of 7 pages

### 1. UNSTOW

FGB1\_208\* ThinkPad 760XD laptop labeled with cue card SSC3  
RS DC Power Cbl (one)  
DC Power Supply Adapter Cbl (two)  
RS/ORB DC Power Supply (three)

NOD1P4\_J4 US DC Power Supply (one)

CD Case PC Hard Card labeled "SSC File Server Full Backup"  
Volume I ThinkPad Auto Loader floppy disk (one)  
FGB1\_226\*

CD Case SSC Client Reload CD ROM disk  
Volume II  
FGB1\_302\*

SM\_110\* External floppy drive case (one)  
Floppy drive (one)  
PCMCIA Slot Extender

SM\_313\* 3Com Ethernet network card (three)  
Ethernet 10Base2 Coax Cables, 25 feet  
Ethernet 10Base2 Coax Cables, 3 feet  
Ethernet T-Connectors  
Ethernet Barrel Connectors  
Ethernet Terminators  
Cable Ties

RS provided Intel Ethernet network card (one)

Perform {1.204 SSC PRINTER SETUP}, step 1 (SODF: POC:  
ACTIVATION AND CHECKOUT: OPS LAN) for unstow of printer items,  
then:

### 2. PREPARING ECS/OCA1

#### **WARNING**

Locate Quick Disconnects at hatches for ease  
in locating, disconnecting during hatch closure.  
Route, restrain cables to prevent loose cable  
lengths which could entrap crew.

NODE If not previously accomplished, move OCA1 to Node  
Perform {1.201 EARLY COMM OCA SETUP} within Node, all (SODF:  
POC: ACTIVATION AND CHECKOUT: OPS LAN), then:



## 1.206 SSC PHASE II NETWORK SETUP

(POC/2R - 5A/FIN C)

Page 2 of 7 pages

### 3. MOVING USER PROFILES FROM SSC FILE SERVER

#### NOTE

All SSC Clients should be powered off before proceeding with step 3. Do not log on until all laptops are reloaded.

- 3.1 Log into SSC File Server as Administrator.
- 3.2 Open windows explorer.
- 3.3 Create an archive folder under d:\homedir.
- 3.4 Create three subfolders: Shep, Yuri, and Sergei.
- 3.5 Select all contents of the d:\homedir\shep\profiles folder.  
Select Edit | Cut.
- 3.6 Go to d:\homedir\archive\shep folder.  
Select Edit | Paste.

Repeat steps 3.5 and 3.6 for Sergei and Yuri.

Verify that the d:\homedir\shep\profiles folder is clear (repeat for Yuri and Sergei).

Log Off.

### 4. MOUNTING SSC3 CLIENT IN NODE

Move SSC3 to Node.

Refer to diagram 1 for network layout.

UOP           √UOP pwr sw – Off  
Pwr Sply     √US DC pwr sply sw – Off

ThinkPad →|← DC pwr sply adapter cable  
DC pwr sply adapter cable →|← US DC pwr sply (28V → 20V)  
US DC pwr sply (28V → 20V) →|← US DC pwr cable  
US DC pwr cable →|← UOP

### 5. LOADING SSC CLIENTS

SSCx           Connect external floppy drive case.  
                  Insert Auto Loader floppy disk.

SSC1(2)       |  
                  If SM  
                  ThinkPad pwr → Off

UOP           |  
Pwr Sply     |  
                  If Node  
                  UOP pwr sw → On  
                  US DC pwr sply sw → On

## 1.206 SSC PHASE II NETWORK SETUP

(POC/2R - 5A/FIN C)

Page 3 of 7 pages

While holding down the F1 button (continue holding until Easy-Setup screen appears)

ThinkPad pwr → On

sel Config  
sel Initialize  
sel OK  
sel Exit  
sel Restart  
sel OK

Insert SSC Client Reload CD ROM disk.

If CD ROM is not inserted within 45 seconds

Autoloader Start Menu

Input 1. Reload Hard Disk

### NOTE

1. The reload process is automatic and will take 15 --- 20 minutes to complete.
2. The computer will restart several times during this process.
3. Step 6 can be performed at the same time.

When on-screen prompt appears, eject floppy and CD ROM disk.

Autoloader Reconfiguration Summary Autoloader

ThinkPad pwr → Off

Repeat for each SSC Client.

## 6. INSTALLING DATA CABLES

### NOTE

1. Step 6 may be performed while machines are reloading.
2. Barrel connectors and T-connectors are interchangeable.

Install coax network data cables from the FGB to the Node per diagram 1.

### **WARNING**

Locate Quick Disconnects at hatches for ease in locating, disconnecting during hatch closure. Route, restrain cables to prevent loose cable lengths which could entrap crew.

√All dongles have T-connectors

## 1.206 SSC PHASE II NETWORK SETUP

(POC/2R - 5A/FIN C)

Page 4 of 7 pages

### 7. POWERING ON SSC CLIENTS

SSCx

ThinkPad pwr → On

If Windows Protection Error appears

ThinkPad pwr → Off

ThinkPad pwr → On

sel Cancel

sel Yes to run Unique Client Configuration Program

sel a unique computer name SSC1 (SSC2, SSC3) based on attached cue card and computer location

sel Update

√Network settings

sel OK

sel Yes to restart Windows

Input standard crew personal logon information.

For appropriate logon information, refer to [{5.202 SSC USER LOGON ACCOUNTS}](#) (SODF: POC: REFERENCE: OPS LAN).

sel OK

√PC Card (PCMCIA) status icon  appears in the system tray

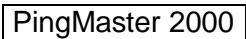
Repeat step 7 for all SSC Clients.


## 1.206 SSC PHASE II NETWORK SETUP

(POC/2R - 5A/FIN C)

Page 5 of 7 pages

- SSCx 8. [CHECKING NETWORK CONNECTIVITY](#)  
Select PingMaster icon  from system tray.



sel Ping All Network button 

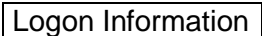
√All status icons green, ~15 seconds

If PingMaster icon  yellow or red

Perform [{4.203 SSC NETWORK TROUBLESHOOTING}](#) (SODF:  
POC: CORRECTIVE: OPS LAN), then:

Repeat step 8 for all SSC Clients.

9. [SETTING NETWORK CLOCK](#)  
Press [Ctrl+Alt+Delete] to logon.



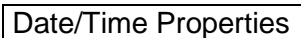
Input generic File Server logon information.

For appropriate logon information, refer to [{5.202 SSC USER LOGON ACCOUNTS}](#) (SODF: POC: REFERENCE: OPS LAN).

sel OK

PCS From PCS or other on board clock, obtain current GMT.

SSC FS sel clock from system tray

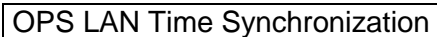


Manually adjust time to match PCS or other time source.

sel OK

sel Start 

sel Ops LAN Time Update  from menu



SSC1(2,3) Confirm time broadcast ~ 1 minute.  
Confirm time on clients match time on server.

## 1.206 SSC PHASE II NETWORK SETUP

(POC/2R - 5A/FIN C)

Page 6 of 7 pages

### 10. PERFORMING FILE SERVER DATA BACKUP

√**MCC** to ensure no OCA uplink in progress

#### NOTE

1. Do not run additional programs on the SSC File Server while performing backup.
3. Backup should take 1 --- 15 minutes depending upon number of files.

Insert PC Hard Card labeled File Server Full Backup into PCMCIA slot extender.

Insert PCMCIA slot extender into laptop.


sel OK

sel Station Apps folder from desktop

sel Ultrabac Icon

sel Full Backup Icon

sel Yes

Confirm hard disk indicator  is active on the keyboard LCD screen.

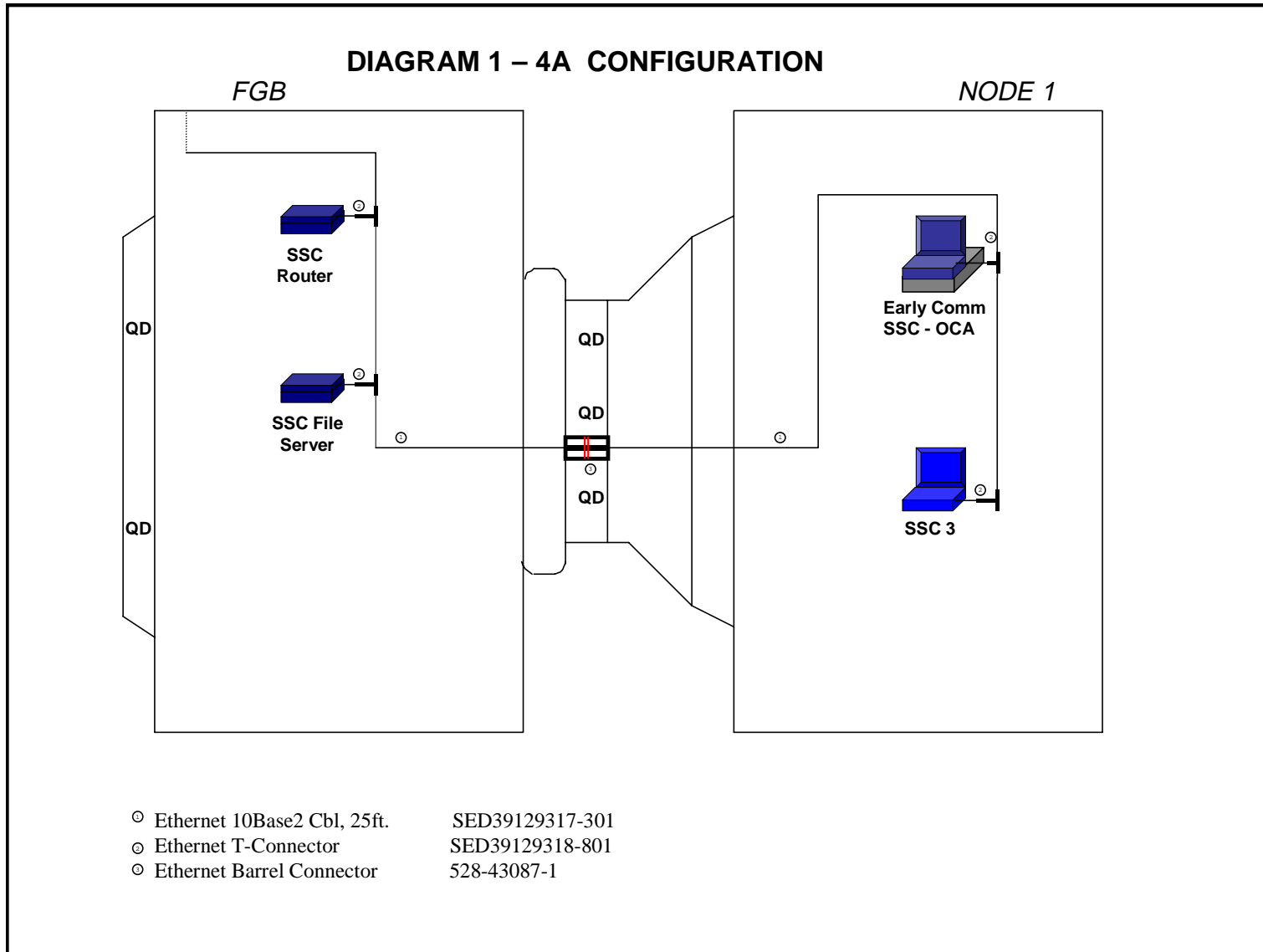
sel OK

Eject PCMCIA slot extender.

sel OK

Disconnect PC Hard Card from PCMCIA slot extender.  
Stow File Server Backup PC Hard Card.

**1.206 SSC PHASE II NETWORK SETUP**  
 (POC/2R - 5A/FIN C) Page 7 of 7 pages



31

This Page Intentionally Blank

NOMINAL



**NOMINAL**

This Page Intentionally Blank

## 2.201 EARLY COMM CREW CALL - PRE-LAB

(POC/4A - ALL/FIN B)

Page 1 of 3 pages

I

### NOTE

If the ISS S-Band system is not available, or if S-band TDRS service has not been previously scheduled, this procedure will cause the loss of command and telemetry with MCC when ECS is moded to High Data Rate.

### 1. PREPARING VIDEO TELECONFERENCES (CREW ONLY)

Perform {2.202 EARLY COMM VIDEO TELECONFERENCE}, steps 1 --- 6 (SODF: POC: NOMINAL: OPS LAN).

### NOTE

The Crew Call indicator may not work correctly using e5A PCS (REF: SPN 670).

### 2. SETTING CREW CALL INDICATOR 1 (CREW ONLY)

#### NOTE

1. Crew Call Indicator 1 is used to signal the readiness of the crew to begin a non-critical teleconference.
2. Crew Call Indicators 1 and 2 are used to signal the readiness of the crew to begin a critical teleconference.

EPCS

C&T: Early Comm Overview

Early Comm Overview

'Crew Call'

sel Set Cmds

Crew Call Set

'Indicator 1'

**cmd** Set

Verify Indicator 1 – X

Early Comm Overview

'Crew Call'

Verify Crew Call Indicator 1 is lit.

## 2.201 EARLY COMM CREW CALL - PRE-LAB

(POC/4A - ALL/FIN B)

Page 2 of 3 pages

### 3. SETTING CREW CALL INDICATOR 2 (CREW FOR CRITICAL, GROUND FOR NON-CRITICAL)

#### NOTE

CREW CALL INDICATOR 2 WILL BE

1. Used by the ground to acknowledge the crew's request for a teleconference.
2. Used by the ground to signal its request to begin a teleconference with the crew.
3. Used by the crew conjunction with Crew Call Indicator 1 to signal the readiness of the crew to begin a critical teleconference.

EPCS/MCC C&T: Early Comm Overview

Early Comm Overview

'Crew Call'

sel Set Cmds

Crew Call Set

'Indicator 2'

**cmd** Set

Verify Indicator 2 – X

Early Comm Overview

'Crew Call'

Verify Crew Call Indicator 2 is grayed out.

### 4. ECS COMMAND TO HIGH DATA RATE (GROUND ONLY)

#### NOTE

The next step requires time for the ground to be configured to High Data Rate.

5. Crew and **MCC-H** (Ops Plan) verify two green lights on their respective OCA machines.

### 6. CONDUCTING VIDEO TELECONFERENCE (CREW ONLY)

Perform {2.202 EARLY COMM VIDEO TELECONFERENCE}, step 7 (SODF: POC: NOMINAL: OPS LAN).

### 7. AFTER COMPLETION OF VIDEO TELECONFERENCE (CREW ONLY)

Perform {2.202 EARLY COMM VIDEO TELECONFERENCE}, steps 8 --- 10 (SODF: POC: NOMINAL: OPS LAN).

## 2.201 EARLY COMM CREW CALL - PRE-LAB

(POC/4A - ALL/FIN B)

Page 3 of 3 pages

- MCC
8. RESETTING CREW CALL INDICATORS (GROUND ONLY)
- C&T: Early Comm Overview
- 
- 'Crew Call'
- sel Reset Cmds
- 
- 'Indicator 1'
- cmd** Reset
- Verify Indicator 1 – X
- 'Indicator 2'
- cmd** Reset
- Verify Indicator 2 – X
- 
- 'Crew Call'
- Verify Crew Call Indicator 1 is green.  
Verify Crew Call Indicator 2 is green.

This Page Intentionally Blank

## 2.202 EARLY COMM VIDEO TELECONFERENCE

(POC/2R - ALL/FIN B)

Page 1 of 2 pages

I

### 1. VIDEO TELECONFERENCE PREPARATION

If required, perform {1.201 EARLY COMM OCA SETUP}, all (SODF: POC: ACTIVATION AND CHECKOUT: OPS LAN), then:

### OCA1 2. VIDEO TELECONFERENCE

If using mini-cam

sel OCA ProShare Video icon from desktop

If using camcorder

sel OCA ProShare Video with Camcorder icon from desktop

#### NOTE

ProShare application takes ~30 seconds to start.

3. √Video active in LOCAL window

4. Adjust Thinkpad display tilt-angle, camera position, iris.  
Focus so operator's face centered in LOCAL video window.

5. √Picture quality and position

\*\*\*\*\*

If picture quality poor

From LOCAL video window

sel Adjust Video (slide bar icon)

Adjust picture quality as required.

sel Close

If 'Save camera control settings?' appears,

sel Yes button

√Zooms in button (mag glass) in the out position

\*\*\*\*\*

6. Wait for **MCC-H** to initiate call.

### OCA1 7. CONDUCTING VIDEO TELECONFERENCE

#### NOTE

Video teleconference performance may be affected if other applications are active. However, the TDRSS Link Status and KFX application should always be active.

√Remote video window active, audio active

√Speaker/Mic icon on remote window toggled appropriately

Adjust audio volume using slide bar under remote video window.

## 2.202 EARLY COMM VIDEO TELECONFERENCE

(POC/2R - ALL/FIN B)

Page 2 of 2 pages

Optional: To change the LOCAL or remote video window size, use SPLIT button to separate video windows from handset.

sel Video Size icon on video windows to change size

### NOTE

When video teleconference completed, either side can terminate call. If **MCC-H** has disconnected, Hang Up button on handset will change to Dial.

## 8. SETTING EARLY COMM MODE TO LOW RATE (PRELAB ONLY)

### NOTE

**MCC-H** (ISS GC) will need to configure the ground for Early Comm Low Data Rate after command is sent.

√ **MCC-H** before performing this step

EPCS

C&T: Early Comm Overview

Early Comm Overview

'Command Telemetry Processor'

sel System Mode

Early Comm System Mode

**cmd** Sys Mode Low **Execute**

Verify MODE – LOW

## 9. VIDEO TELECONFERENCE TEARDOWN

If required, go to {2.203 EARLY COMM OCA DEACTIVATION}, all (SODF: POC: NOMINAL: OPS LAN).

## 2.203 EARLY COMM OCA DEACTIVATION

(POC/2R - ALL/FIN B) Page 1 of 2 pages

I

- OCA1
1. Exit OCA applications.
  2. Shut down Windows.
  3. OCA1 power → Off  
Expansion Chassis power → Off

### 4. INHIBITING POWER TO OCA1

FGB 427  
(227)

If in FGB  
On panel OUTLET PWR-10/3 AMPS (P5C-10/3)  
sw → Off

If in Node 1  
Notify **MCC** before performing this step.

CRT

If MCDS required  
SM 203 EARLY COMM  
N1RS2A RPC 11 OP – ITEM 16 EXEC (\*)

PCS

If PCS required  
nav C&T  
Early S-Band Comm Management  
'System Configuration'

sel Power Control Display  
sel N1RS2A RPC 11

**cmd N1RS2A\_RPC\_11\_OP Execute**

√N1RS2A RPC 11 – Off

- OCA1
5. If in FGB  
Disconnect data cables from rear of OCA1 only.  
If practical, coil cables and stow in the FGB PA with Velcro from the IFM Kit.  
Apply Velcro to the FGB PA if necessary; otherwise, stow in the Transfer Bag.  
Disconnect power cables.

If in Node 1  
Disconnect power and data cables.

- NOD1S4
6. If Node 1 Ops  
Replace Jumper (P18) on the RF PWR DIST BOX ORU.

### 7. STOWAGE

FGB1D114

Collapsible Transfer Bag contains the following items  
OCA1 Docking Station (Laptop and Expansion Chassis)  
OCA1 Data Cable for Node 1  
EECOM RFPDB18/VTS OCA CBL SED16103021-301



## 2.203 EARLY COMM OCA DEACTIVATION

(POC/2R - ALL/FIN B)

Page 2 of 2 pages

OCA1 Power Cable for Node 1  
ECOMM VTS CBL SED16103023-301  
OCA1 Power Cables and Power Isolator for FGB  
FGB PWR CABLE SED39134107-301  
DC Power Isolator SED39134112-301  
FGB VTSPC ISO PWR CBL SED39134120-301  
Headset  
Mini-cam  
Mini-cam Cable  
Speakers

Coil in  
FGB PA

√OCA1 Data Cables  
PDGF/VTSPC OCA CBL SED39134125-301  
Wire Harness Assy - 1553 Data Bus 1F74151-1  
Wire Harness Assy - 1553 Data Bus 1F74153-1

### 8. ENABLING POWER TO RF PWR DIST BOX ORU

If in Node 1

Notify **MCC** before performing this step.

If MCDS required

CRT

SM 203 EARLY COMM

N1RS2A RPC 11 CL – ITEM 15 EXEC (\*)

If PCS required

PCS

nav C&T

Early S-Band Comm Management

'System Configuration'

sel Power Control Display

sel N1RS2A RPC 11

**cmd N1RS2A\_RPC\_11\_CL Execute**

√N1RS2A RPC 11 – On

**CAUTION**

Do not perform this procedure with a 28V RS/ORB DC Power Supply. The power supply cannot charge the battery and power the laptop at the same time.

NOTE

1. Each discharge - charge cycle will take approximately 4 hours. The battery will be cycled three times for complete conditioning.
2. The SSC may be used during conditioning.
3. Do not perform this procedure with the SSC File Server.

1. PREPARING SSC

If required, insert the battery to be conditioned.  
Perform {2.401 THINKPAD BATTERY CHANGEOUT}, steps 1 --- 12 (SODF: POC: NOMINAL: THINKPAD).

If not already accomplished, provide vehicle power to laptop

SSC  
Pwr Sply  
UOP

√SSC pwr – Off  
√US DC Pwr Sply sw – Off  
√UOP pwr sw – Off

US DC Power Cable →|← UOP  
US DC Power Cable →|← US DC Power Supply (J1)

DC Power Supply Adapter Cable →|← US DC Power Supply (J2)  
DC Power Supply Adapter Cable →|← SSC client power port

UOP  
Pwr Sply  
SSC

UOP pwr sw → On  
US DC Pwr Sply sw → On  
SSC pwr → On

Input personal login name and password.

sel OK

2. CONDITIONING APPLICATION

sel Station Apps icon from desktop

sel ThinkPad folder icon

sel Fuel icon

**3. DISCHARGE - CHARGE CYCLE**

NOTE  
Do not shut down Windows or power off the SSC during the discharge - charge cycle.

Fuel

sel discharge icon 

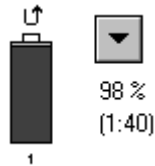
Information

sel OK

Information

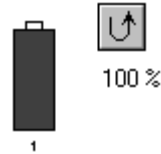
sel OK

Verify battery charge % decreasing.



Fuel

Wait until discharge - recharge cycle has completed, and verify battery recharged back to 100 %.



Perform step 3, a total of three times.

Fuel

Close Fuel window.

## 2.205 SSC DATA BACKUP

(POC/5A - ALL/FIN C)

Page 1 of 1 page

I

### NOTE

√**MCC** to ensure no OCA uplink in progress

#### SSC FS 1. LOGGING ON TO FILE SERVER

√SSC FS power – On

Begin Logon

If file server was just powered on, wait 2 minutes to allow services to load before proceeding.

Press [Ctrl+Alt+Delete] to logon.

Logon Information

Input standard File Server logon information.

For appropriate logon information, refer to {5.202 SSC USER LOGON ACCOUNTS} (SODF: POC: REFERENCE: OPS LAN).

sel OK

#### 2. PERFORMING BACKUP

### NOTE

1. Do not run additional programs on the SSC File Server while performing backup.
2. Backup should take 1 --- 15 minutes depending upon number of files.

If backing up only files that have changed since the last backup

sel Incremental Backup icon from desktop

sel OK


If replacing all backup data sets

sel Full Backup icon from desktop

sel OK

Verify

sel Yes

Verify the hard disk indicator is  active on the keyboard LCD screen

Complete

sel OK

This Page Intentionally Blank

## 2.207 SSC LATE UPDATE

(POC/2R - ALL/FIN B)

Page 1 of 2 page

I

### NOTE

√With **MCC** to determine the most current version of the late update

SSC

1. If SSC Client  
Input standard crew personal or generic logon information.  
For appropriate logon information, refer to {5.202 SSC USER LOGON ACCOUNTS} (SODF: POC: REFERENCE: OPS LAN).  
If SSC File Server  
Input standard file server logon information.  
For appropriate logon information, refer to {5.202 SSC USER LOGON ACCOUNTS} (SODF: POC: REFERENCE: OPS LAN).
2. Insert PC Hard Card labeled "SSC Late Update" into PCMCIA slot extender.

Insert slot extender into SSC laptop.

PC Card Director for Windows NT

sel OK


3. If SSC Client  
sel Station Apps folder from desktop  
sel PC Card Late Update icon to launch software update file  
If SSC File Server  
sel Station Apps folder from desktop  
sel PC Card Late Update icon to launch software update file

Verify

4. Acknowledge update message.

Complete

5. sel OK

6. If SSC Client  
sel PCMCIA Card icon  from system tray  
PC Card (PCMCIA) Properties  
sel name of the PCMCIA device to be removed  
sel Stop  
Wait while system stops card drivers, ~30 seconds.

## 2.207 SSC LATE UPDATE

(POC/2R - ALL/FIN B)

Page 2 of 2 page

“name of PCMCIA device”

√‘You may safely remove this device’ message appears

sel OK

PC Card (PCMCIA) Properties

Close window.

sel OK

If SSC File Server

Eject SSC Late Update PC Hard Card.

### CAUTION

PC Hard Card may be hot.

PC Card Director for Windows NT

sel OK

Stow SSC Late Update PC Hard Card.

Insert previously removed PCMCIA card(s).

7. Repeat procedure for each SSC client, ECS/OCA1, and File Server.

## 2.208 SSC NETWORK TIME UPDATE

(POC/2R - ALL/FIN B) Page 1 of 1 page

I

### 1. LOGGING ON TO FILE SERVER

SSC FS     √SSC FS pwr – On

If file server was just powered on, wait 2 minutes to allow services to load to before proceeding with logon.

Press [Ctrl+Alt+Delete] to logon.

Input generic File Server logon information.

For appropriate logon information, refer to {5.202 SSC USER LOGON ACCOUNTS} (SODF: POC: REFERENCE: OPS LAN).

sel OK

### 2. OBTAINING AND ENTERING CURRENT TIME

PCS     From PCS or other onboard clock, obtain current GMT.

SSC FS     Select the clock from system tray.

Manually adjust time to match PCS or other time source.

sel OK

### 3. BROADCASTING SERVER TIME TO CLIENTS

SSC (1- x)     Boot and logon to all SSC client computers requiring time update.

SSC FS     sel Start

sel Ops LAN Time Update from start menu

Verify time broadcasts for 1 minute.

SSC (1- x)     Verify time on client matches time on server.

#### NOTE

The server time is scheduled to be broadcast to the network automatically every day at noon GMT.

### 4. LOGGING OFF FILE SERVER

sel Start

sel Logoff [Username]

sel Yes to "Are you sure you want to logoff?"



This Page Intentionally Blank

## 2.209 SSC PCMCIA CARD CHANGEOUT

(POC/2R - ALL/FIN B)

Page 1 of 1 page

I

SSC

1. If SSC client, √Pwr – On

1.1 Select PCMCIA Card icon  from system tray.

1.2 Select the name of the PCMCIA device to be removed.

1.3 sel Stop

1.4 Wait while system stops card drivers, ~30 seconds.

1.5 √'You may safely remove this device' message appears

1.6 sel OK

1.7 Close window.

sel OK

2. Depress release button to eject PCMCIA card(s) from PCMCIA card slot(s).

3. If SSC File Server

sel OK

4. Insert desired PCMCIA card.

5. If SSC File Server

sel OK

If SSC Client

√PCMCIA Card icon  reappears in system tray

This Page Intentionally Blank

## 2.210 SSC RF LAN SITE SURVEY

(POC/5A - ALL/FIN A)

Page 1 of 2 pages

### NOTE

Perform Site Survey with an SSC Client: either SSC 4 or SSC 6.

SSC      √Battery is inserted

        If battery not inserted, insert battery.

        √Battery is Charged > 85 %

        If Battery not charged, allow Battery to Charge to > 85 %.

### 1. RUNNING SITE SURVEY APPLICATION

#### NOTE

1. For Site Survey experiment, AP1 and AP2 need to remain powered on. SSC 4(6) should be used to record data at different data points in SM, FGB, N1, and LAB.
2. Do not run the Site Survey application on more than one SSC at a time.

SSC      sel Station Apps folder from Desktop  
          sel RF OPSLAN Utilities folder  
          sel RangeLan2 Site Survey & Configuration Tool icon

RangeLAN2 Site Survey & Configuration Tool

        sel Site Survey... button

Site Survey

        sel the master graphical antenna button

Directed Link

        √Packet Size Bytes: 1500

### 2. UNPLUGGING LAPTOP

UOP      UOP pwr sw → Off

        DC Pwr Sply Adapter Cable ←|→ SSC power port

        Allow SSC to run on battery power.

## 2.210 SSC RF LAN SITE SURVEY

(POC/5A - ALL/FIN A)

Page 2 of 2 pages

### 3. RECORDING LAB DATA SET

At each data point, rotate laptop antenna until highest signal strength is observed.

Record data in Table 1 of file: SSC RF DATA Tables.doc.

Save file in K:\OCA-down folder for OCA downlink.

### 4. RECORDING N1 DATA SET

At each point, rotate antenna until highest signed strength is observed.

Record data in Table 2 of file: SSC RF DATA Tables.doc.

Save file in K:\OCA-down folder for OCA downlink.

### 5. EXITING SITE SURVEY PROGRAM

sel Done

sel Done

sel Exit

### 6. RECHARGING AND REMOVING BATTERY

Shut down Windows.

√SSC pwr sw – Off

Wait for battery to charge to 100 %.

Remove and stow battery:

Go to {2.401 THINKPAD BATTERY CHANGEOUT}, steps 2 --- 9  
(SODF: POC: NOMINAL: THINKPAD).

NOTE

1. The hard drive will be completely overwritten during this procedure.
2. This procedure does not apply to the OCA1 laptop, PCS, or the RS laptops.

Unstow:

Thinkpad AutoLoader floppy diskette  
SSC Reload CD ROM disk  
External floppy disk drive

1. RELOADING HARD DRIVE FROM DISK IMAGE

1.1 Save any personal files to the server or personal hard card.

1.2 ✓ **MCC** for current version of software load

1.3 Shut down operating system.

1.4 Thinkpad power → Off

1.5 Connect external floppy drive to laptop.

1.6 Insert "AutoLoader" floppy diskette.

1.7 While holding down the F1 key  
Thinkpad power → On

1.8 sel Config

1.9 sel Initialize

1.10 sel OK

1.11 sel Exit

1.12 sel Restart

1.13 sel OK

1.14 Insert SSC Reload CD ROM containing new software load.

If CD ROM is not inserted within 45 seconds of ThinkPad Startup

AutoLoader Start Menu

Input 1. Reload Hard Disk.

## 2.211 SSC SOFTWARE AUTO RELOAD

(POC/2R - ALL/FIN B) Page 2 of 2 pages

### NOTE

1. The reload process is automatic and will take 15 --- 30 minutes to complete.
2. The computer may reboot several times during this process.

- 1.15 When on-screen prompt appears, eject and stow floppy and CD ROM disks.
- 1.16 Thinkpad power → Off
- 1.17 If required, insert network PCMCIA card.
- 1.18 Thinkpad power → On

## 2. CONFIGURING SSC CLIENT UNIQUE PARAMETERS

If reloading an SSC Client

If the message '**Window Protection Error. You need to restart your computer**' appears

Thinkpad power → Off

Thinkpad power → On

- 2.1 Input standard crew personal or generic logon information.

sel OK

- 2.2 sel Yes to run Unique Client Configuration Program

### NOTE

Each computer on the network whether powered on or off, must have a unique computer name.

- 2.3 sel a unique computer name (SSC1 – SSC7)

- 2.4 sel Uppdate

- 2.5 Verify computer name.

sel OK

- 2.6 sel Yes to restart Windows

NOTE

The hard drive will be completely overwritten during this procedure.

Unstow:

ThinkPad OCALoader floppy diskette  
OCA1 Reload PC Hard Card

RELOADING HARD DRIVE FROM DISK IMAGE

1. Save any personal files to the server or personal hard card.
2. ✓ **MCC** for current version of OCA1 software load
3. Shut down Windows.
4. Thinkpad power → Off
5. Insert ThinkPad “OCALoader” floppy diskette.
6. Insert “OCA1 Reload” PC Hard Card.
7. Thinkpad power → On
8. sel Yes when prompted

NOTE

The reload process is automatic and will take 10 --- 15 minutes to complete.

9. When on-screen prompt appears, eject and stow floppy and PC Hard Card.
10. Thinkpad power → Off
11. Insert network PCMCIA card.
12. Thinkpad power → On
13. sel 1. Docked

Enter Network Password

14. Input standard OCA login information.



This Page Intentionally Blank

1. UNSTOWING EPCS

PCS Thinkpad  
 ORB Power Supply Adapter cable 10'  
 1553 PC Card w/Adapter Cable 22in  
 RS DC Power and 1553 Cable 8'  
 RS/ORB DC Power Supply

2. VERIFYING POWER OFF

If in SM  
 Pwr Sply | √RS/ORB DC Power Supply sw – Off

If in FGB  
 Pwr Sply | √RS/ORB DC Power Supply sw – Off  
 | √On Panel OUTLET PWR-10/3 AMPS (PEC-10/3), sw – OFF

3. MAKING PCS POWER AND DATA CABLE CONNECTIONS

Connect 22-inch Adapter Cable to the 1553 PC Card for both PCSs.  
 Insert 1553 PC Card into top PCS PCMCIA slot for both PCSs.

If in SM  
 | Connect RS DC Power and 1553 Cable 8' to receptacle on panel GNC 2/RS Bus 8 (GNC 1/RS Bus 7), and RS/ORB DC Power Supply outlet (J1) and 22-inch Adapter Cable.  
 |  
 | Connect the ORB Power Supply Adapter Cable 10' to the PCS and to the RS/ORB DC Power Supply outlet (J2).

If in FGB  
 | Connect RS DC Power and 1553 Cable 8' to receptacle on panel GNC 2/RS Bus 8 (GNC 1/RS Bus 7), and RS/ORB DC Power Supply outlet (J1) and 22-inch Adapter Cable.  
 |  
 | Connect the ORB Power Supply Adapter Cable 10' to the PCS and to the RS/ORB DC power supply outlet (J2).  
 |  
 | Connect the cable protruding from the GNC 2/RS Bus 8 (GNC 1/RS Bus 7) panel (cables are labeled 77KM-2120-1670 and 77KM-2120-2190, respectively) to the 10A connector on panel OUTLET PWR 10/3 AMPS (PEC-10/3).

4. TURNING ON PCS

If in SM  
 | 28VDC pwr sply sw → On (Lt On)

If in FGB  
 | 28VDC power supply sw → On (Lt On)

Pwr Sply | On panel OUTLET PWR-10/3 AMPS (PEC-10/3), sw → ON

PCS | PCS Thinkpad pwr sw → On

## 2.301 EPCS SETUP - ISS

(POC/2R - ALL/FIN B)

Page 2 of 3 pages

### NOTE

1. PCS connection to MDM is indicated by green in the Status Box and '**Connected**' message displayed in the PCSCDS Main Control Panel Window only when the associated Node MDM is up and running as the primary MDM.
2. If MDMs are not up and running and step 5 is executed, expect a PCS '**CW Server Error Msg**' and a '**CDS Signon Fail**'.

PCS2

### 5. CONNECTING PCS TO MDM DATA (IF MDM IS UP AND RUNNING)

After bootup when taskbar appears at bottom of display  
sel Arrow directly above PCS logo (as required)  
sel Start/Restart PCS CDS (as required)

If pop-up window appears asking what time source to use  
sel RS Time

### NOTE

A pop-up window may appear saying that the CW Server failed to start and it will be retried every 15 seconds.

sel Icon to open PCSCDS Main Control Panel Window

√Status Box is green and '**Connected**' is displayed in the PCSCDS Main Control Panel Window

Iconify PCSCDS Main Control Panel Window as desired.

\*\*\*\*\*

If Status Box is not green, select CONNECT TO MDM button if the MDMs are on.

\*\*\*\*\*

### 6. CONFIGURING PCS FOR DISPLAYS

Wait 40 seconds after PCS is connected.

sel Arrow above PCS logo  
sel Start PCS CDDF display

After approximately 1 minute, √'**Increment xA Home Page**' is displayed.

\*\*\*\*\*

If GMT - <static> or telemetry fields in Caution & Warning toolbar are cyan, perform {2.306 PCS RECONNECT}, all (SODF: POC: NOMINAL: PCS).

\*\*\*\*\*

Displays may now be selected as desired.

Inform **MCC-H** when complete.

## 2.301 EPCS SETUP - ISS

(POC/2R - ALL/FIN B)

Page 3 of 3 pages

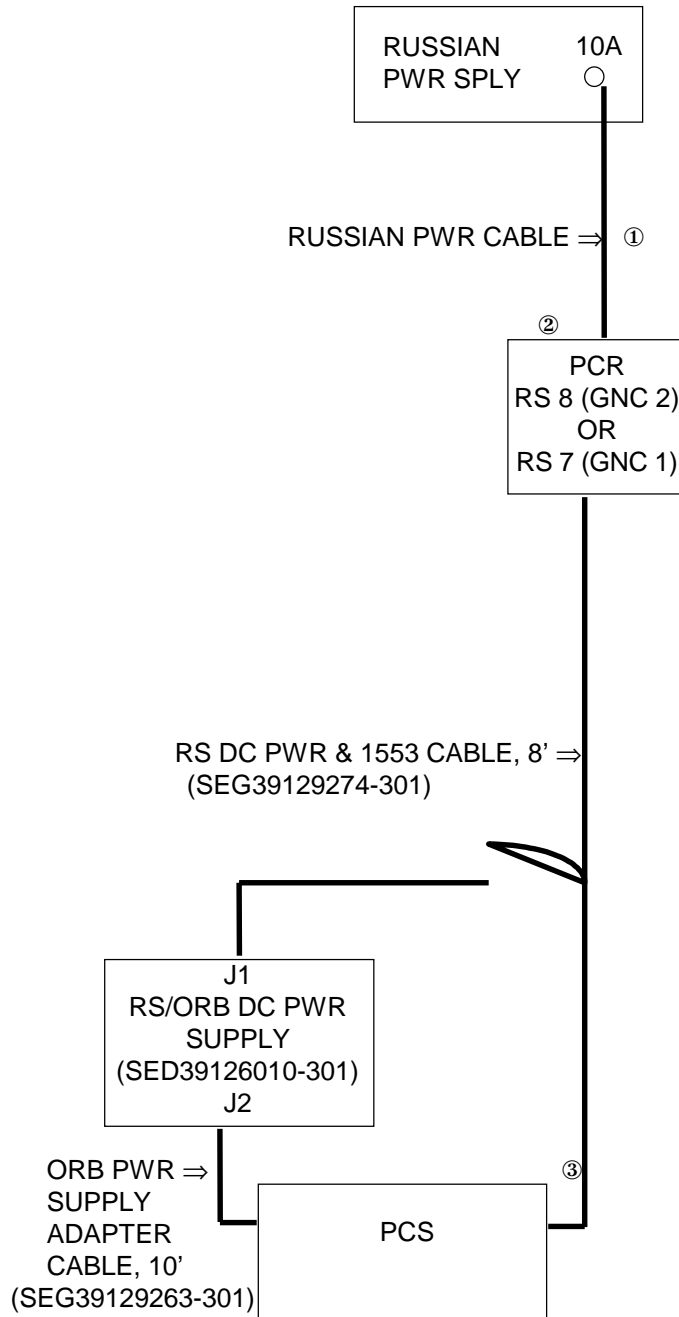


Figure 1.- FGB PCS Configuration.

### NOTE

1. The Russian power cable is fixed in place and only needs to be connected to the Russian 10A power outlet.
2. If N1-2 is primary, connect to PCR RS 8 (GNC-2) for data. If N1-1 is primary, connect to PCR RS 7 (GNC-1) for data.
3. The 1553 Data Cable I/Fs with a 22in pigtail connector (Ch A and B) connects to the 1553 Card that inserts into the PC Card PCMIA upper slot in the PCS.

This Page Intentionally Blank

## 2.302 ONBOARD FILE TRANSFER

(POC/4A - ALL/FIN B)

Page 1 of 4 pages

I

### NOTE

The maximum size for one file transfer is 8 Megabytes (MB).

### 1. OPENING FILE TRANSFER WINDOW

PCS

PCSCDS Main Control Panel

sel Commands  
sel File Transfer

File and Memory Transfer

### NOTE

At this point, decide which file transfer to perform. The options include

1. Get a File Function - initiate a direct file or directory listing transfer from the C&C MDM or Payload MDM to PCS.
2. Put a File Function - initiate a direct file transfer from PCS to the C&C MDM or Payload MDM.
3. Indirect File Transfer Function - initiate an indirect file transfer between the C&C MDM and the Payload or JEM MDMs, between prime and backup C&C MDMs, or between prime and backup Payload MDMs.
4. Indirect Data Load Function - initiate an indirect transfer of a file from the C&C MDM to the memory of the GN&C MDMs, LAB CEU, or Cupola CEU.

To perform the Get a File Function, go to step 2.

To perform the Put a File Function, go to step 3.

To perform the Indirect File Transfer Function, go to step 4.

To perform the Indirect Data Load Function, go to step 5.

### 2. GETTING A FILE FUNCTION

PCS

File and Memory Transfer

sel Commands  
sel Get a File

Get Remote File

sel Source Node (MDM that PCS is connected to)

'Abort on MSD Read Error'

sel True

## 2.302 ONBOARD FILE TRANSFER

(POC/4A - ALL/FIN B)

Page 2 of 4 pages

### NOTE

On the Source is Directory radio button, select True when transferring a directory and select False when transferring a file.

'Source is Directory'

sel True or False as appropriate

True - for directory listing transfer

False - for file transfer

### NOTE

1. Direct file transfers to and from the C&C MDM to PCS are only available if the PCS is connected on a control bus (i.e., not available in pass-through mode).
2. Due to limitations on the MDM, the source and target directory paths specified during transfers are limited to a total of 96 characters each. In addition, each directory and file name is limited to 32 characters.

Input Source Directory by keyboard or by File Select button (i.e., /fmt).

Input Source File by keyboard or by File Select button.

Input Target Directory by keyboard or by File Select button

(i.e., /export/home/PCSUser).

Input Target File by keyboard or by File Select button.

sel Apply

Go to step 6.

### 3. PUT A FILE FUNCTION

PCS

File and Memory Transfer

sel Commands

sel Put a File

Put Remote File

### NOTE

1. Direct file transfers to and from the C&C MDM to PCS are only available if PCS is connected on a control bus (i.e., not available in pass-through mode).
2. Due to limitations on the MDM, the source and target directory paths specified during transfers are limited to a total of 96 characters each. In addition, each directory and file name is limited to 32 characters.

## 2.302 ONBOARD FILE TRANSFER

(POC/4A - ALL/FIN B)

Page 3 of 4 pages

Input Source Directory by keyboard or by File Select button  
(i.e., /export/home/PCSUser).

Input Source File by keyboard or by File Select button.

sel Target Node (MDM that PCS is connected to)

Input Target Directory by keyboard or by File select button (i.e., /fmt).

Input Target File by keyboard or by File select button.

sel Apply

Go to step 6.

### 4. INDIRECT FILE TRANSFER FUNCTION

PCS

File and Memory Transfer

sel Commands

sel Indirect File Transfer

Indirect File Transfer

#### NOTE

Only certain combinations of source and target nodes are available for indirect transfers.

sel Source Node (Device to transfer from)

sel Target Node (Device to transfer to)

#### NOTE

1. Due to limitations on the MDM, the source and target directory paths specified during transfers are limited to a total of 96 characters each. In addition, each directory and file name is limited to 32 characters.
2. PCS must be connected to the MDM that the user wants to transfer files to or the MDM that the user wants to transfer files from.

Input Source Directory by keyboard (i.e., /fmt).

Input Source File by keyboard.

Input Target Directory by keyboard (i.e., /fmt).

Input Target File by keyboard.

sel Apply

Go to step 6.



## 2.302 ONBOARD FILE TRANSFER

(POC/4A - ALL/FIN B)

Page 4 of 4 pages

### 5. INDIRECT DATA LOAD FUNCTION

#### NOTE

Due to limitations on the MDM, the source and target directory paths specified during transfers are limited to a total of 96 characters each. In addition, each directory and file name is limited to 32 characters.

PCS

File and Memory Transfer

sel Commands  
sel Indirect Data Load

Indirect Data Load

#### NOTE

This function is not available when PCS is connected to the Payload MDM.

sel Source Node – C&C Prime  
sel Target Node (Platform to transfer to)

Input the Source Directory (i.e., /cdh).  
Input the Source File (i.e., gnc3\_3.b).  
Input the Starting Address for the memory location on the Target Node to hold the transferred file.  
Input the File Length, in decimal, of the file being transferred.

sel Apply

### 6. MONITORING THE FILE AND MEMORY TRANSFER

PCS

File and Memory Transfer

'Active Transfers'

Verify Transfer status – OK

Wait 4 minutes per megabyte of file size to be transferred.

'Completed Transfers'

Verify Transfer Status – COMPLETED

To perform another file transfer, go to step 1.

sel Commands  
sel Close

Verify Shutdown

sel Yes

## 2.303 PCS DEACTIVATION

(POC/4A - ALL/FIN B)

Page 1 of 2 pages

I

### 1. POWERING DOWN EPCS/PCS

Close all display windows.  
Disconnect CDS from MDM.  
Close CDS window.

At the taskbar on bottom of display,  
sel EXIT

On Logout Confirmation window  
sel OK

When '**Type any key to continue**' message appears

If shuttle AFD

PCS PCS 1,2 Thinkpad pwr sw → Off

Pwr Sply PCS1 28V DC Pwr Sply sw → Off (Lt Off)  
PCS2 28V DC Pwr Sply sw → Off (Lt Off)

A15 MNC DC UTIL PWR (J2) → Off  
  
PDIP DC POWER 2 → Off

If in SM

PCS PCS Thinkpad pwr sw → Off  
Pwr Sply PCS 28V DC Pwr Sply sw → Off (Lt Off)

If in FGB

PCS PCS Thinkpad Pwr sw → Off  
Pwr Sply PCS 28V DC Pwr Sply sw → Off (Lt Off)  
P5C-10/3 On Panel OUTLET PWR 10/3 AMPS (P5C-10/3) sw → OFF

### 2. DISCONNECTING EPCS/PCS POWER AND DATA CABLE

If shuttle AFD

L12/A3 Disconnect both ORB 1553 Data Cables 8' from N1-1 (J103) and  
N1-2 (J107) and from the 1553 PC Card Adapter Cables.  
  
Disconnect both the ORB DC Power Cable 6' and ORB DC Power  
Cable 10' from the RS/ORB DC power supply (J1) and the ORB DC  
outlets.  
  
Disconnect both the ORB Power Supply Adapter Cable 10' from the  
PCS DC power outlet and the RS/ORB DC power supply (J2).

## 2.303 PCS DEACTIVATION

(POC/4A - ALL/FIN B)

Page 2 of 2 pages

	↑
	If in SM
	Disconnect RS DC Power and 1553 Cable 8' to PCR outlet and the RS/ORB DC power supply outlet (J1) and the 1553 PC Card Adapter Cable.
Pwr Sply	Disconnect the ORB Power Supply Adapter Cable 10' from the RS/ORB DC power supply outlet (J2) and from the PCS.
	If in FGB
	Disconnect RS DC Power and 1553 Cable 8' to PCR outlet and the RS/ORB DC power supply outlet (J1) and the 1553 PC Card Adapter Cable.
Pwr Sply	Disconnect the ORB Power Supply Adapter Cable 10' from the RS/ORB DC power supply outlet (J2) and from the PCS.
P5C-10/3	Disconnect the cable, protruding from the GNC 2/RS Bus 8 (GNC 1/RS Bus 7) panel (cables are labeled 77KM-2120-1670 and 77KM-2120-2190, respectively), from the 10A connector on panel OUTLET PWR 10/3 AMPS (P5C-10/3).

### 3. STOWING EPCS/PCS

PCS Thinkpads

20V DC Power Cables 10'

1553 Card and 22-inch Adapter Card

If shuttle AFD

Stow ORB DC Power Cable 6'  
ORB DC Power Cable 10'  
ORB 1553 Data Cables 8'  
RS/ORB DC Power Supply

If ISS RS

Stow RS DC Power and 1553 Cable 8' in the FGB.  
RS/ORB DC Power Supply

## 2.304 PCS LOG FILE SAVE

(POC/4A - ALL/FIN B)

Page 1 of 1 page

I

PCS

### 1. CDS LOGS DUMP

If PCSCDS Main Control Panel is an icon,  
double-click the 'cds\_ui' icon to restore it.

PCSCDS MAIN CONTROL PANEL

sel File  
sel Update Log Files

### 2. SAVE LOGS

sel Arrow directly above PCS logo  
sel Save Logs

PCS save logs

Disregard text.  
Press enter.

#### NOTE

1. The format to use for naming the directory is:  
[userinitials] logs [flight day]
2. Use a different directory name each time you save the logs. If the logs need to be saved more than once in a flight day, append the directory name with an underscore and a number starting at "1" and increment each time that the logs are saved that day. An example directory name would be:  
abclogs07\_2

Enter directory name.  
Press enter.

Verify message – Save logs completed

Press enter.

PCS

### 3. VERIFYING THE LOGS HAVE BEEN SAVED

Right-click anywhere on empty desktop space.

sel Programs  
sel Terminal...

Type 'cd <directory name>'.  
Type 'ls -l'.

Verify Runtime\_files/ and logs/ are in the directory.

Close terminal window.

4. Inform **MCC-H** with the directory name.

This Page Intentionally Blank

1. POWERING DOWN EPCS/PCS

Close all display windows.

If PCS does not accept inputs from the keyboard or mouse, go to step 2.

Disconnect CDS from MDM.

Close CDS window.

At the taskbar on bottom of display  
sel EXIT

On Logout Confirmation window  
sel OK

Wait for '**Type any key to continue**' message to appear.

2. TURNING OFF POWER

PCS Thinkpad pwr sw → Off

Wait 10 seconds.

3. TURNING ON POWER

PCS Thinkpad pwr sw → On

4. CONNECTING EPCS/PCS TO MDM DATA

PCS2

After bootup, when taskbar appears at bottom of display

sel Arrow directly above PCS logo

sel Start/Restart PCS CDS

sel Icon to open PCSDCS Main Control Panel Window

√Status Box is green and '**Connected**' is displayed in the PCSCDS  
Main Control Panel Window

Iconify PCSCDS Main Control Panel Window.

5. CONFIGURING PCS FOR DISPLAYS

sel Arrow above PCS logo

sel Start PCS CDDF display

After approximately 1 minute, √'**Increment xA Home Page**' is displayed.

Displays may now be selected as desired.

## 2.305 PCS REBOOT

(POC/4A - ALL/FIN B)

Page 2 of 2 pages

\*\*\*\*\*

If GMT - <static> or telemetry fields in Caution &  
Warning toolbar are cyan, go to {2.306 PCS  
RECONNECT}, all (SODF: POC: NOMINAL: PCS).

\*\*\*\*\*

Displays may now be selected as desired.

## 2.306 PCS RECONNECT

(POC/4A - ALL/FIN B)

Page 1 of 1 page

I

### 1. CDDF AND CDS SHUTDOWN

Close all display windows.  
Disconnect CDS from MDM.  
Close CDS window.

### 2. CONNECTING PCS TO MDM DATA

sel Arrow directly above PCS logo  
sel Start/Restart PCS CDS

If popup window appears asking what time source to use

On EPCS  
sel RS Time

On PCS  
sel MDM Time

#### NOTE

A pop-up window may appear saying that the CW Server failed to start and it will be retried every 15 seconds.

sel Icon to open PCSCDS Main Control Panel Window

√Status Box is green and '**Connected**' is displayed in the PCSCDS Main Control Panel Window

Iconify PCSCDS Main Control Panel Window.

### 3. PCS FOR DISPLAYS CONFIGURATION

sel Arrow above PCS logo  
sel Start PCS CDDF display

After approximately 1 minute, √'**Increment xA Home Page**' is displayed.

Displays may now be selected as desired.



This Page Intentionally Blank

## 2.307 PCS SCREEN CAPTURE

(POC/2R - ALL/FIN B)

Page 1 of 2 pages

I

### 1. OPENING SNAPSHOT WINDOW

Move the pointer to an open area on the desktop.  
Press the right mouse button.

sel Programs  
sel Snapshot...

### 2. TAKING SNAPSHOT

#### NOTE

You must have the window that you wish to snapshot open and uncovered.

Snapshot V3.X

sel box next to 'Hide Window During Capture'  
sel Snap

#### NOTE

When you click on the window, the Snapshot Window will disappear for 8 --- 16 seconds.

Click on the window you want to take a snapshot of.

### 3. SAVING SNAPSHOT

#### NOTE

The image file will be saved in the /export/home/PCSUser directory.

Snapshot V3.X

sel View...

Image Tool V3.X File: Untitled

sel File  
sel Save As...

Image Tool: Save As  
'File Format'

sel Sun Raster  
sel GIF

Save As...

Type over 'Untitled1' with the name that you wish to call the image followed by '.gif'.

## 2.307 PCS SCREEN CAPTURE

(POC/2R - ALL/FIN B)

Page 2 of 2 pages

### NOTE

There will be a pop-up window with the message '**Saving to the GIF file format may result in a loss of data. Do you want to continue?**' The difference is negligible and can be ignored.

sel Save  
sel Yes

Close the display and Snapshot application.

#### 4. RETRIEVING AND VIEWING THE IMAGE

Right-click on any empty space on the desktop.

sel Programs  
sel Image Viewer  
sel File  
sel Open...  
sel <the desired file>  
sel OK

Close Image View - Palette window.

1. UNSTOWING PCS

PCS Thinkpad  
1553 PC Card w/Adapter Cable 22in

If RS

RS DC Power and 1553 Cable 8'  
RS/ORB DC Power Supply  
ORB Power Supply Adapter Cable 10'

If USOS

US DC Power and 1553 Cable (UOP to Power Supply and 760), 8'  
US DC Power Supply (120V)  
DC Power Supply Adapter Cable, 10'

2. VERIFYING POWER OFF

If in SM

Pwr Sply     √RS/ORB DC Power Supply sw – Off

If in FGB

Pwr Sply     √RS/ORB DC Power Supply sw – Off  
              √On Panel OUTLET PWR-10/3 AMPS (P5C-10/3), sw – Off

If in USOS

√UOP Power Light – Lt Off

3. MAKING PCS POWER AND DATA CABLE CONNECTIONS

Connect 22in Adapter Cable to the 1553 PC Card.  
Insert 1553 PC Card into top PCS PCMCIA slot.

If in SM

Connect RS DC Power and 1553 Cable 8' to panel 427 (227), receptacle GNC 2/RS Bus 8 (GNC 1/RS Bus 7), the RS/ORB DC Power Supply outlet (J1) and 22in Adapter Cable.

Connect the ORB Power Supply Adapter Cable 10' to the PCS and to the RS/ORB DC power supply outlet (J2).

If in FGB

Connect RS DC Power and 1553 Cable 8' to receptacle on panel GNC 2/RS Bus 8 (GNC 1/RS Bus 7), the RS/ORB DC Power Supply outlet (J1) and 22in Adapter Cable.

Connect the ORB Power Supply Adapter Cable 10' to the PCS and to the RS/ORB DC power supply outlet (J2).

Connect the cable protruding from the GNC 2/RS Bus 8 (GNC 1/RS Bus 7) receptacle (cables are labeled 77KM-2120-1670 and 77KM-2120-2190, respectively) to the 10A connector on receptacle OUTLET PWR 10/3 AMPS (P5C-10/3).

↑  
If in USOS

Connect US DC Power and 1553 Cable (UOP to Power Supply and 760), 8' to the UOP, the US DC Power Supply (120V) outlet (J1), and 22in Adapter Cable.

Connect the DC Power Supply Adapter Cable, 10' to the PCS and to the US DC Power Supply (120V) outlet (J2).

NOTE

1. PCS connection to MDM is indicated by green in the Status Box and '**Connected**' message displayed in the PCSCDS Main Control Panel Window only when the C&C MDM is up and running.
2. If MDM is not up and running and step 4 is executed, expect a PCS '**CW Server Error Msg**' and a '**CDS Signon Fail**'.

4. TURNING ON PCS

If in SM

PCS

RS/ORB DC Power Supply sw → On (Lt On)  
PCS Thinkpad pwr sw → On

If in FGB

Pwr Sply

On panel OUTLET PWR-10/3 AMPS (PEC-10/3), sw → ON  
RS/ORB DC Power Supply sw → On (Lt On)

PCS

PCS Thinkpad pwr sw → On

If in USOS

UOP  
PCS

Push Power Button → On (Lt On)  
PCS Thinkpad pwr sw → On

If pop-up window appears asking for what time source to use  
sel MDM Time

NOTE

A pop-up window may appear saying that the CW Server failed to start and it will be retried every 15 seconds. Select OK to remove it.

After approximately 1 minute, √'**PCS Home Page**' is displayed.

\*\*\*\*\*  
If GMT - <static> or telemetry fields in Caution & Warning toolbar are cyan, perform {2.306 PCS RECONNECT}, all (SODF: POC: NOMINAL: PCS).  
\*\*\*\*\*

Displays may now be selected as desired.

Inform **MCC-H** when complete.

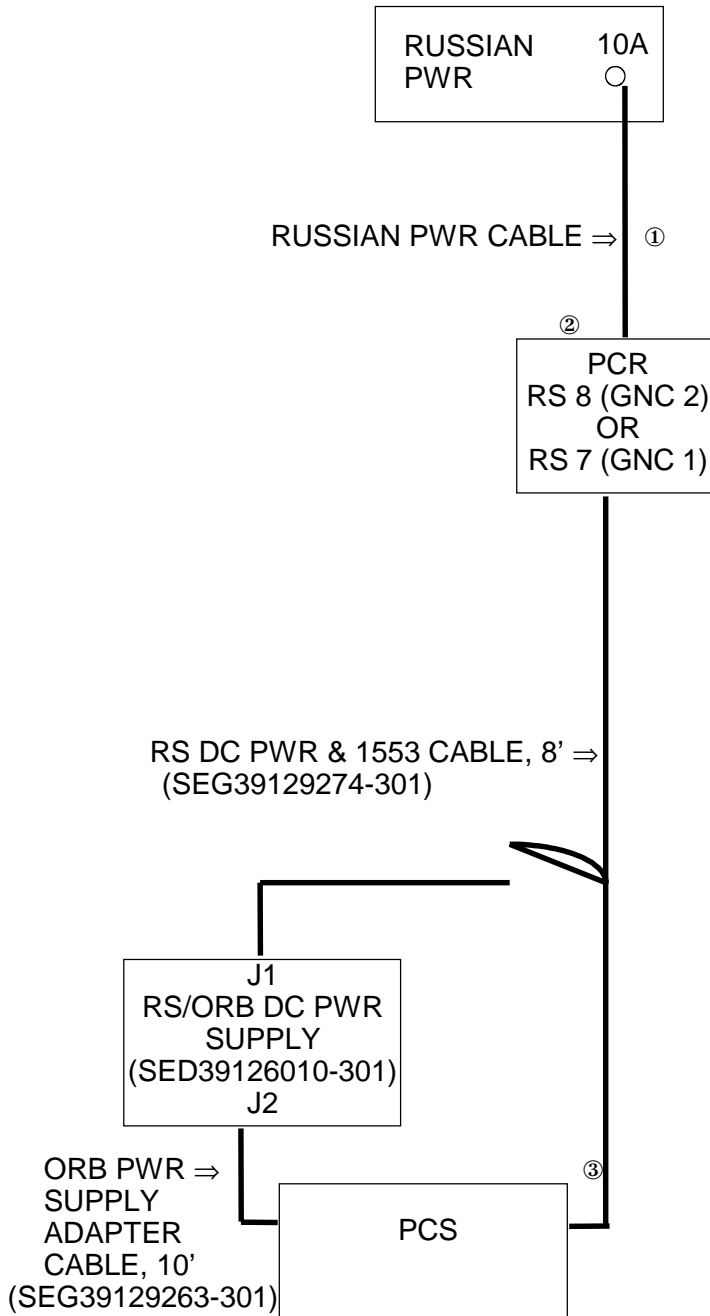


Figure 1.- FGB PCS Configuration.

**NOTE**

1. The Russian power cable is fixed in place and only needs to be connected to the Russian 10A power outlet.
2. The 1553 Data Cable I/Fs with a 22in pigtail connector (Ch A and B) connects to the 1553 Card that inserts into the PC Card PCMIA upper slot in the PCS.

This Page Intentionally Blank

## 2.309 TRANSFERRING LOG FILES TO FLOPPY DISK

(POC/4A - ALL/FIN B)

Page 1 of 1 page

I

### 1. PERFORMING PCS LOG FILES SAVE

Perform {2.304 PCS LOG FILE SAVE}, all (SODF: POC: NOMINAL: PCS) as needed, then:

### 2. RUNNING COPY LOGS TO FLOPPY UTILITY

sel Arrow directly above PCS logo

sel Copy PCS logs to floppy

Press Enter.

#### NOTE

If action fails, the following will be displayed:

If no disk in drive, insert diskette, try again.

If no floppy drive attached, shutdown, attach floppy drive, and reboot.

If floppy drive is attached after boot up, shutdown and reboot.

If floppy drive not seated properly, shutdown, re-seat, and reboot.

Input directory name from list of available directories listed in the Terminal Window.

sel OK

Verify Copy logs to floppy complete.

Press Enter.

Manually Eject Floppy Disk.



This Page Intentionally Blank

## 2.501 PDA LOAD BACKUP

(POC/5A - ALL/FIN)

Page 1 of 2 pages

### PDA 1. PERFORMING PDA BACKUP

NOTE

Using PDA for procedure viewing will not be possible during backup.

PDA Pwr → On

Welcome to Windows CE

sel OK

√Windows CE desktop appears

Insert Sandisk Flash Card into PDA PCMCIA slot.

**CAUTION**

Do not force Flash Card into PCMCIA slot.

sel Start | Programs | bSquare | bUSEFUL Backup Plus

bUSEFUL Backup Plus Wizard

sel Close

Left Window:

Expand Windows CE Device.

√Windows CE Device checkbox

Expand Files.

Uncheck Storage Card checkbox.

NOTE

Unchecking Storage Card is important. If not done, contents of storage card will be backed up.

sel File

sel Start Backup

Backup Details

sel Browse

New backup ...

√Correct directory in steps following

sel Storage Card

sel PDA Backup folder

## 2.501 PDA LOAD BACKUP

(POC/5A - ALL/FIN)

Page 2 of 2 pages

Enter name for backup file.

sel OK

sel OK

√Backup in Progress window appears

sel NO to view backup log

sel File

sel Exit

sel Yes to exit

Remove Sandisk Flash Card from PCMCIA slot.

## 2.401 THINKPAD BATTERY CHANGEOUT

(POC/2R - ALL/FIN B)

Page 1 of 1 page

I

### CAUTION

While operating with the RS\ORB 28 - 20V power supply, the battery will discharge even while plugged in. Do not allow the battery to drop below 1 % to avoid possible laptop hardware damage.

- Thinkpad 1. Exit all applications and shut down the operating system.
2. ✓ Thinkpad power – Off
- Pwr Sply 3. DC Power Supply switch → Off
- UOP,  
(PCS),  
(RbS) 4. Power switch → Off
- Thinkpad 5. Tilt screen back 180° position.
6. To tilt keyboard up, lift up on near corners of keyboard while sliding both side latches towards rear of Thinkpad.
- If CD ROM installed
7. Remove and temporary stow CD ROM drive (left compartment component).  
Lift blue plastic tabs to unseat handle.  
Firmly pull component out by center of handle.
8. To remove battery (center compartment component), grasp blue tab on battery, pull toward front of laptop, and lift up.
9. Stow removed battery.
10. If required, insert new battery.
11. If CD ROM required, insert CD ROM drive aligning connectors and pressing ONLY on top edge of drive.  
Rotate handle back under lip.
12. Lower keyboard and press down on near corners of keyboard to close.
- UOP,  
(PCS),  
(RbS) 13. Power switch → On
- Pwr Sply 14. DC Power Supply switch → On
- Thinkpad 15. Thinkpad power → On

This Page Intentionally Blank

## 2.402 THINKPAD CD ROM/FLOPPY DRIVE CHANGEOUT

(POC/2R - ALL/FIN B) Page 1 of 1 page

I

- Thinkpad 1. Exit all applications and shut down the operating system.
2. ✓ Thinkpad power – Off
3. DC Power Supply switch → Off
- UOP,  
(PCS),  
(RbS) 4. Power switch → Off
5. Tilt screen back 180° position.
- Thinkpad 6. To tilt keyboard up lift up on near corners of keyboard while sliding both side latches towards rear of Thinkpad.
7. Remove and stow left-side compartment component (CD-ROM drive or floppy drive)  
Lift blue plastic tabs to unseat handle.  
Firmly pull component out by center of handle.
8. Insert new component  
Align connectors and press ONLY on top edge of drive.  
Rotate handle back under lip.
9. Lower keyboard and pressdown on near corners of keyboard to close.
- UOP,  
(PCS),  
(RbS) 10. Power switch → On
- Pwr Sply 11. DC Power Supply switch → On
- Thinkpad 12. Thinkpad power → On

This Page Intentionally Blank

## 2.403 THINKPAD HARD DRIVE CHANGEOUT

(POC/2R - ALL/FIN B) Page 1 of 1 page

I

- Thinkpad 1. Exit all applications and shut down the operating system.
2. ✓ Thinkpad power – Off
3. If Expansion Unit attached, Expansion Unit power → Off
- Pwr Sply 4. DC Power Supply switch → Off
- UOP,  
(PCS),  
(RbS) 5. Power switch → Off
6. Tilt screen back 180° position.
- Thinkpad 7. To tilt keyboard up, lift up on near corners of keyboard while sliding both side latches towards rear of Thinkpad.
8. Remove and temporary stow left-side component (CD-ROM drive)  
Lift blue plastic tabs to unseat handle.  
Firmly pull component up and out by center of handle.
9. If installed, remove and temporary stow center component (battery) using blue tab lift up and towards front of laptop.
10. Remove and stow right-side component (hard drive)  
Lift blue plastic tabs to unseat handle.  
Firmly pull component up and out by center of handle.
11. Insert new hard drive  
Align connectors and press ONLY on top edge of drive.  
Rotate handle back under lip.
12. Reinsert center component (battery).
13. Reinsert left side component (CD ROM drive)  
Align connectors and press ONLY on top edge of drive.  
Rotate handle back under lip.
14. Lower keyboard and press down on near corners of keyboard to close.
- UOP,  
(PCS),  
(RbS) 15. Power Supply switch → On
- Pwr Sply 16. DC Power Supply switch → On
- Thinkpad 17. Thinkpad power → On



This Page Intentionally Blank

CORRECTIVE

**CORRECTIVE**

**CORRECTIVE**

This Page Intentionally Blank

## 4.202 SSC PRINTER MAINTENANCE

(POC/2R - ALL/FIN B)

Page 1 of 3 pages

I

### 1. BLACK INK CARTRIDGE CHANGEOUT

Unstow:

- Grey Tape
- Small Ziplock Bag
- New Black Ink Cartridge

#### NOTE

Perform if black ink cartridge light is illuminated or the printer has been stowed for a long period of time.

1.1 Refer to {1.204 SSC PRINTER SETUP}, Figure 1 (SODF: POC: ACTIVATION AND CHECKOUT: OPS LAN), then:

1.2 ✓Printer – Ready (steady green power light)

1.3 Raise printer cover.

1.4 Press and hold both ink cartridge buttons for ~3 seconds and release. Black ink cartridge (leftmost) will move to the left.

#### NOTE

Printer will reset if the following step is not performed within 1 minute after performing step 1.4. If reset experienced, repeat step 1.4.

#### **CAUTION**

Do not squeeze ink cartridge.

1.5 Lift tab on purple cover.  
Remove black ink cartridge.

1.6 Cover opening on used cartridge with Gray Tape.  
Stow old cartridge in Ziplock Bag.  
Place Ziplock Bag in printer locker.

1.7 Unstow new cartridge from sealed pack.  
Remove small yellow plastic tab on top.  
Do not remove white tab (reference instructions on cartridge).

1.8 Insert new cartridge (black arrow should be pointing toward back of printer).

1.9 Lower and latch tab on purple cover. Do not reopen.

1.10 If also changing color cartridge, go to step 2; otherwise, continue.

1.11 Lower and close printer cover.

## 4.202 SSC PRINTER MAINTENANCE

(POC/2R - ALL/FIN B)

Page 2 of 3 pages

- 1.12 Perform {1.204 SSC PRINTER SETUP}, Warmup and Self-Test steps 4 and 6 (SODF: POC: ACTIVATION AND CHECKOUT: OPS LAN), then:

### 2. COLOR INK CARTRIDGE CHANGEOUT

Unstow:

- Grey Tape
- Small Ziplock Bag
- New Color Ink Cartridge

#### NOTE

Perform if color ink cartridge light is illuminated or the printer has been stowed for a long period of time.

- 2.1 Raise printer cover.
- 2.2 Refer to {1.204 SSC PRINTER SETUP}, Figure 1 (SODF: POC: ACTIVATION AND CHECKOUT: OPS LAN), then:
- 2.3 Press and hold both ink cartridge buttons until black ink cartridge moves to the left (~3 seconds).

#### NOTE

Printer will reset if the following step is not performed within 1 minute after performing step 2.3. If reset experienced, repeat step 2.3.

- 2.4 Press and hold color ink cartridge (lower) button for 1 second and release to expose color cartridge. Color cartridge holder (rightmost component) will move to the left and become accessible.

#### **CAUTION**

Do not squeeze ink cartridge.

- 2.5 Lift tab on purple cover (rightmost).  
Remove ink cartridge.
- 2.6 Cover openings on used cartridge with Gray Tape.  
Stow old cartridge in Ziploc Bag.  
Place Ziploc Bag in printer locker.
- 2.7 Unstow new cartridge from sealed pack.  
Remove small yellow plastic tab on top.  
Do not remove white tab (reference instructions on cartridge).
- 2.8 Insert new cartridge (black arrow should be pointing toward back of printer).

## 4.202 SSC PRINTER MAINTENANCE

(POC/2R - ALL/FIN B) Page 3 of 3 pages

- 2.9 Lower and latch tab on purple cover. Do not reopen.
- 2.10 Lower and close printer cover.
- 2.11 Perform {1.204 SSC PRINTER SETUP}, Warmup and Self-Test steps 4 and 6 (SODF: POC: ACTIVATION AND CHECKOUT: OPS LAN), then:

### 3. CLEANING PRINTER HEADS (Black and/or Color)

#### NOTE

Printer must be ON, not printing and appropriate ink cartridge light must not illuminate red.

- 3.1 Refer to {1.204 SSC PRINTER SETUP}, Figure 1 (SODF: POC: ACTIVATION AND CHECKOUT: OPS LAN), then:
- 3.2 ✓PRINTER PWR – On  
✓INK CARTRIDGE Light – Off  
  
If light is red, go to step 1 or 2.
- 3.3 Raise printer cover.
- 3.4 Press and hold appropriate ink cartridge button for ~3 seconds.
- 3.5 ✓Flashing green power light – Green light will flash while cleaning  
  
Procedures are complete when power light stops flashing (~2 minutes).
- 3.6 Repeat steps 3.4 and 3.5 three times.
- 3.7 Close printer cover.
- 3.8 Perform {1.204 SSC PRINTER SETUP}, Warmup and Self-Test steps 4 and 6 (SODF: POC: ACTIVATION AND CHECKOUT: OPS LAN), then:  
  
If quality of print is bad, repeat as necessary.

This Page Intentionally Blank

## 4.203 SSC NETWORK TROUBLESHOOTING

(POC/2R - ALL/FIN B)

Page 1 of 2 pages

I

### 1. CHECKING NETWORK CONNECTIVITY

1.1 sel PingMaster icon  from system tray

PingMaster 2000

1.2 sel Ping All Network 

1.3 ✓All status icons green, ~15 seconds

### 2. DETERMINING PROBLEM LOCATION

2.1 If loopback status in Network Primary Table is not responding, Reboot.

#### NOTE

Possible operating system problem. Hard drive reload may be required.

If problem persists, ✓MCC-H.

2.2 If local computer status in Network Components table not responding

Eject network PCMCIA card.

Reinsert network PCMCIA card.

Reboot.

#### NOTE

Possible network card failure.

If problem persists, swap out network card with backup network card.

2.3 If local computer status in Network Components table and all other computers not responding

Check local cable connection.

Go to another laptop on the subnet.

sel Pingmaster icon 

sel Ping All Network 

If second computer status in Network Components table has good response and all other statuses are not responding

✓Cable connections and terminators on subnet

#### NOTE

Possible backbone failure.

If problem persists, swap out cables, T-connectors, and terminators.



#### 4.203 SSC NETWORK TROUBLESHOOTING

(POC/2R - ALL/FIN B)

Page 2 of 2 pages

If second computer status in Network Components table is not responding and all other active computers have good response, reboot original computer experiencing problem.

**NOTE**

Possible network card failure.

If problem persists, swap out network card with backup network card.

- 2.4 If local computer status in Network Components table has good response, and one other computer status is not responding, troubleshoot from start of procedure at non-responding computer.
- 2.5 If local computer status in Network Components table has good response, and multiple active computers are not responding  
If one router in Network Nodes table not responding, reboot non-responding router.

**NOTE**

Possible network card failure in router.

If problem persists, swap out network card with backup network card.

If all routers in Network Nodes table have status of good response, troubleshoot from start of procedure at non-responding computer.

## 4.204 SSC SOFTWARE ANOMALY

(POC/4A - ALL/FIN B)

Page 1 of 2 pages

I

### 1. CAPTURING DATA

If laptop having anomaly is not functioning, run CaptureMaster application from a different SSC client.

1.1 Select CaptureMaster icon from Station Apps folder.

1.2 Select the CM icon in the system tray.

CaptureMaster

1.3 Select SSC Anomaly Report icon.

SSC Anomaly Report - C:\Admin\Anomaly\“Filename”

1.4 Answer questions to describe anomaly

SSC Serial #: \_\_\_\_\_

GMT of Anomaly: \_\_\_\_\_

Crewmember: \_\_\_\_\_

Did the keyboard and/or mouse lock up? \_\_\_\_\_

What was displayed on the SSC screen at time of failure? \_\_\_\_\_

What program(s) was/were running when anomaly occurred? \_\_\_\_\_

What were the last actions before anomaly occurred? \_\_\_\_\_

Did rebooting SSC resolve anomaly? \_\_\_\_\_

Short description of Anomaly: \_\_\_\_\_

\_\_\_\_\_

If the anomaly report is being prepared on a machine other than the problematic machine, include that information in this section.

1.5 Select OK to return to the CaptureMaster screen.

Option: Select print for a hard copy of the anomaly report then select OK to return.

1.6 Select Send Log to... icon

Report Mailer

1.7 Select all files in the list.

1.8 Select the Mail button to create an email message. The message will contain all the chosen files as attachments.

1.9 Select “SSC Administrator” and any other appropriate mail recipients. Additional notations can be added in the text window.

1.10 Select Send to send the message.

#### 4.204 SSC SOFTWARE ANOMALY

(POC/4A - ALL/FIN B)

Page 2 of 2 pages

### 2. PERFORMING CORRECTIVE ACTIONS

- 2.1 sel PingMaster icon from system tray
- 2.2 sel Ping All Network
- 2.3 If failed network connection, exit this procedure as soon as the anomaly is resolved.
- 2.4 Save files in all other open applications.
- 2.5 Close all other applications.
- 2.6 If software application is not responding  
Press [Ctrl + Alt + Del]  

Close Program

  
Select application that is not responding.  
Select End Task.  

"Application Name"

  
Select End Task.
- 2.7 Restart application.
- 2.8 Reboot client.
- 2.9 If client - server application like MPV, OSTPV, IMS, etc.  
Check response of same application and note PingMaster readings on different SSC client.  
  
Reboot SSC File Server.

## 4.205 SSC DATA RESTORE

(POC/2R - ALL/FIN B)

Page 1 of 2 pages

I

### NOTE

√MCC to ensure no OCA uplink in progress

#### 1. LOGGING ON TO FILE SERVER

SSC FS √SSC FS power – On

Begin Logon

If file server was just powered on, wait 2 minutes to allow services to load before proceeding with logon.

Press [Ctrl+Alt+Delete] to logon.

Logon Information

Input standard File Server logon information.

sel OK

#### 2. INSTALLING BACKUP PC HARD CARD AND PERFORMING RESTORE

Based on the last known backup of required files, insert PC Hard Card labeled “File Server Full Backup” or “File Server Incremental Backup” into a PCMCIA slot extender.

Insert the PCMCIA slot extender into the laptop.

PC Card Director for Windows NT

sel OK

sel Station Apps folder from desktop

sel UltraBac folder

sel UltraBac icon

UltraBac

sel OK to message regarding access to other machines

UltraBac Single Server Edition (RESTORE) Disk0 f:\

sel Restore

sel Load Index From Storage Media

UltraBac – Select Backup Set

sel Search Media

Based on date of backup, select backup set from the description field containing file(s) to be restored.

## 4.205 SSC DATA RESTORE

(POC/2R - ALL/FIN B) Page 2 of 2 pages

sel Load Set

UltraBac Single Server Edition (RESTORE)

If a single file is desired

In left window pane, navigate to file(s) to be restored.

In right window pane, select blue box next to file name (blue check mark will appear).

If multiple files are desired

In left window pane

sel folder containing files

sel Include

Input mask to select certain types of files or leave “ \* ” to select all files in folder.

sel Use Mask

sel Perform Restore

UltraBac - Restore File(s)

sel Restore

If overwriting a file that already exists on hard drive

Duplicate File

sel Overwrite

UltraBac - Statistics

Verify ‘Files Processed/Selected:’ is same number for both values.

sel Close

UltraBac Single Server Edition (RESTORE)

sel Restore

sel Exit

Eject PCMCIA slot extender.

PC Card Director for Windows NT

sel OK

Disconnect PC Hard Card from PCMCIA slot extender.  
Stow “File Server Backup” PC Hard Card.

### 4.303 THINKPAD CMOS REINITIALIZATION

(POC/2R - ALL/FIN B)

Page 1 of 1 page

I

#### NOTE

This procedure will return the laptops CMOS settings back to the IBM factory default settings. The factory default settings should not be used with flight software loads. This procedure should be followed by steps to reconfigure the CMOS settings for flight.

√Thinkpad pwr – Off

While holding down the [F1] key, Thinkpad pwr → On

Hold down the [F1] key until the Easy-Setup screen appears.

#### Easy-Setup

sel config  
sel initialize  
sel OK  
sel Exit  
sel restart  
sel OK

This Page Intentionally Blank

## 4.401 PDA LOAD RESTORE

(POC/5A - ALL/FIN)

Page 1 of 3 pages

### PDA 1. PREPARING FOR PDA RESTORE

#### NOTE

1. Using PDA for procedure viewing will not be possible during restore.
2. Restore using bUSEFUL backup plus.

Verify that the PDA backup file is on the Sandisk Flash Card.

PDA pwr → On and wait

If blue Welcome screen appears

sel Enter Key

sel Enter Key

Follow Onscreen Instructions.

sel 'X' to close with no changes  
sel 'X' to close with no changes

sel 'X' to close with no changes

sel Done

√Windows CE desktop appears

Continue with Restore Procedure.

If Welcome to Windows CE screen appears

√Date and Time displayed

√Owner Name displayed

#### NOTE

This would occur if PDA not erased and is desired to re-image PDA anyway.

sel OK



## 4.401 PDA LOAD RESTORE

(POC/5A - ALL/FIN)

Page 2 of 3 pages

### 2. PERFORMING PDA RESTORE

Insert Flash Card into PDA PCMCIA slot.

#### CAUTION

Do not force Flash Card into PCMCIA slot.

sel Start | Programs | bSquare | bUSEFUL Backup Plus

bUSEFUL Backup Plus Wizard

sel Restore your device from a backup

sel Next

sel Browse

Open Backup File...

sel Storage Card

sel Folder containing PDA image

sel File to restore

sel OK

bUSEFUL Backup Plus Wizard

sel Next

sel Restore entire backup

sel Finish

bUSEFUL Backup Plus

sel OK

√Restore in Progress window appears

Confirm Database Replace

sel Yes to all

bUSEFUL Backup Plus

sel OK

sel OK

sel No to view log if asked

Exit bUSEFUL Backup Plus.

Remove Flash Card from PCMCIA slot.

Invert PDA.

#### 4.401 PDA LOAD RESTORE

(POC/5A - ALL/FIN)

Page 3 of 3 pages

PDA Stylus → Reset hole located at the bottom of the PDA

Welcome to Windows CE

sel OK

sel Start | Settings | Control Panel | World Clock

World Clock

Reset Date.

Reset Time.

Exit to desktop.

This Page Intentionally Blank

REFERENCE

REFERENCE

This Page Intentionally Blank

REFERENCE

```
C:\
|___Oca-down
|   |___Checs
|   |___DCS
|   |___Ims
|   |___Mail
|   |___OSTP
|   |___Payloads
|___Oca--sw (Ground Use Only)
|___Oca-up
|   |___Archive
|   |___Checs
|   |___Ims
|   |___Exepkg
|   |___(as required for execute package)
|   |___Mail
|   |___AllCrew
|   |___Sergei
|   |___Shep
|   |___Yuri
|   |___News
|   |___OSTP
|   |___Other
|   |___Payloads
|   |___SpOC
```

NOTE

1. This portion of the directory structure is the same on both the Early Comm OCA1 computer and the SSC File Server.
2. The SSC File Server is mapped as the K:\ drive on the Early Comm OCA1 computer.

This Page Intentionally Blank

## 5.202 SSC USER LOGON ACCOUNTS

(POC/2R - ALL/FIN B)

Page 1 of 1 page

**This reference page contains sensitive proprietary data. This page should only be included in the actual flight books.**



This Page Intentionally Blank

## 5.203 SSC WINDOWS KEYBOARD REFERENCE

(POC/2R - ALL/FIN B)

Page 1 of 3 pages

I

### NOTE

Simultaneous key combinations are linked by the + sign.  
Sequential key combinations are linked by commas.

### WINDOWS DESKTOP

Shut down Windows	[CTRL+ESC], [↑], [ENTER], [ENTER]
Select and open desktop icon	[CTRL+ESC], [ESC], [TAB], [TAB], [Arrow keys], [ENTER]
Program item icons contained in folder:	
Select program item icon	[Arrow keys]
Start program	Select program item, [ENTER]

### WINDOWS EXPLORER

Select previous/next directory or subdirectory	[↑] or [↓]
Page forward/backward	[PG DN] or [PG UP]
Select root directory	[HOME]
Select last directory	[END]
Expand current selection (if in left pane and not expanded)	[→]
Collapse current selection (if in left pane and expanded)	[←]
Toggle between panes	[TAB] or [F6]
Refresh screen	[F5]

### FILE MANIPULATION IN WINDOWS EXPLORER

Select adjacent files	[SHIFT+up or down arrow keys]
Select nonadjacent files	[CTRL+up or down arrow keys to move to desired file], [spacebar], repeat as needed
Select all items	[CTRL+A]
Move selected files or directories	[CTRL+X], select drive/directory to move files/directory to, [CTRL]/[V]
Copy selected files or directories	[CTRL+C], select drive+directory to copy files/directory to, [CTRL+V]

## 5.203 SSC WINDOWS KEYBOARD REFERENCE

(POC/2R - ALL/FIN B)

Page 2 of 3 pages

### OPERATING PROGRAMS IN WINDOWS

#### Starting, Quitting, and Switching Between Programs

Start Windows or DOS program	Select icon on Windows desktop, [ENTER]
Cycle between open applications	[ALT+TAB] or [ALT+ESC] (select applications in forward direction) or [SHIFT+ALT+ESC] (select applications in reverse direction)
Display Task List Dialog Box	[CTRL+ALT+DELETE]
Cycle between selections in Dialog Box	[TAB] (forward direction) or [SHIFT+TAB] (reverse direction)
Cancel menu currently displayed	[ESC]
Quit active application	[ALT+F4] or [ALT+spacebar], [C] or [ALT+F], [X]

### SIZING, CLOSING, AND MOVING WINDOWS

#### NOTE

Maximized Windows cannot be resized. Use  
Restore to configure Windows for resizing.

Restore windows from maximized configuration	[ALT+spacebar], [R]
Resize active program window	[ALT+spacebar], [S], [press arrow keys to adjust window size], [ENTER]
Close window	[ALT+spacebar], [C]
Move window	[ALT+spacebar], [M], [use arrow keys to move windows to desired location], [ENTER]
Minimize program or document window to icon	[ALT+spacebar], [N]
Maximize program or document window to full screen	[ALT+spacebar], [X]

### PROGRAM CURRENTLY RUNNING

Select menu and perform task	[ALT+underlined menu letter], [underlined task letter]
Move between areas (lists, buttons, etc.) in Dialog Box	[TAB] or [SHIFT+TAB] or [ALT+ underlined letter]
Select pulldown list within Dialog Box	[ALT+underlined letter]

## 5.203 SSC WINDOWS KEYBOARD REFERENCE

(POC/2R - ALL/FIN B) Page 3 of 3 pages

Cancel pulldown list [ESC]

Cancel menu selection [ESC]

### CLIPBOARD FUNCTIONS

Copies displayed image to Clipboard [CTRL+C]

Cuts image to Clipboard [CTRL+X]

Pastes object from Clipboard to documents,  
spreadsheets, etc. [CTRL+V]

### GETTING HELP (APPLICATIONS ONLY)

Get Help [F1] or [ALT+H]

This Page Intentionally Blank

- OCA1 1. CONFIGURING OCA1  
If not previously accomplished  
Perform {1.201 EARLY COMM OCA SETUP}, all (SODF: POC: ACTIVATION AND CHECKOUT: OPS LAN), then:
- SM1\_321 2. UNSTOWING AND POWERING PD1 CAMCORDER  
If required, unstow PD1 Camcorder.  
Increment Photo/TV - 1 bag contains the PD1 PAL format camcorder and associated cables.

Configure PD1 Camcorder per Plug-in Diagram (RS Power).

- OCA1 3. VERIFYING ASYMETRIX DVP DEFAULT SETTINGS  
sel Start | Programs | Accessories | Multimedia | Asymetrix DVP | Asymetrix DVP Capture

NOTE

1. The following captured video settings are set such that the .avi file size will be approximately 20 MB/minute.
2. Each .avi file for Early Comm OCA downlink should not exceed 20 MB.

sel Options | Video Format

√Video Compression set to Intel Indeo™ R3.1 Video

√Video Size set to 320 x 240

sel Options | Video Source

√Input Source set to S-Video

If using PAL format camcorder

√Input Type set to PAL Detected

sel Capture | Settings

√Capture Frame Rate set to 15.000 frames/second

- 4. CONFIGURING PD1 CAMCORDER FOR PLAYBACK MODE

Power Switch – VTR

√Mini DVCAM tape installed and fully seated

Cue tape to desired scene.

## 5.204 CREATING AN .AVI FILE FROM CAMCORDER PLAYBACK

(POC/2R - ALL/FIN B)

Page 2 of 3 pages

### OCA1 5. CREATING AN .AVI FILE FROM CAMCORDER PLAYBACK VIDEO

Press play on camcorder.

sel Capture | Video

Allow camcorder to play back video for duration no longer than 1 minute.

To confirm video capture in progress

√ Capture frames incrementing in status bar located in bottom left-hand corner of Asymetrix DVP Capture application

sel Stop icon from toolbar

sel File | Save Captured Video As...

Save unique .avi filename in c:\oca-down for OCA downlink.

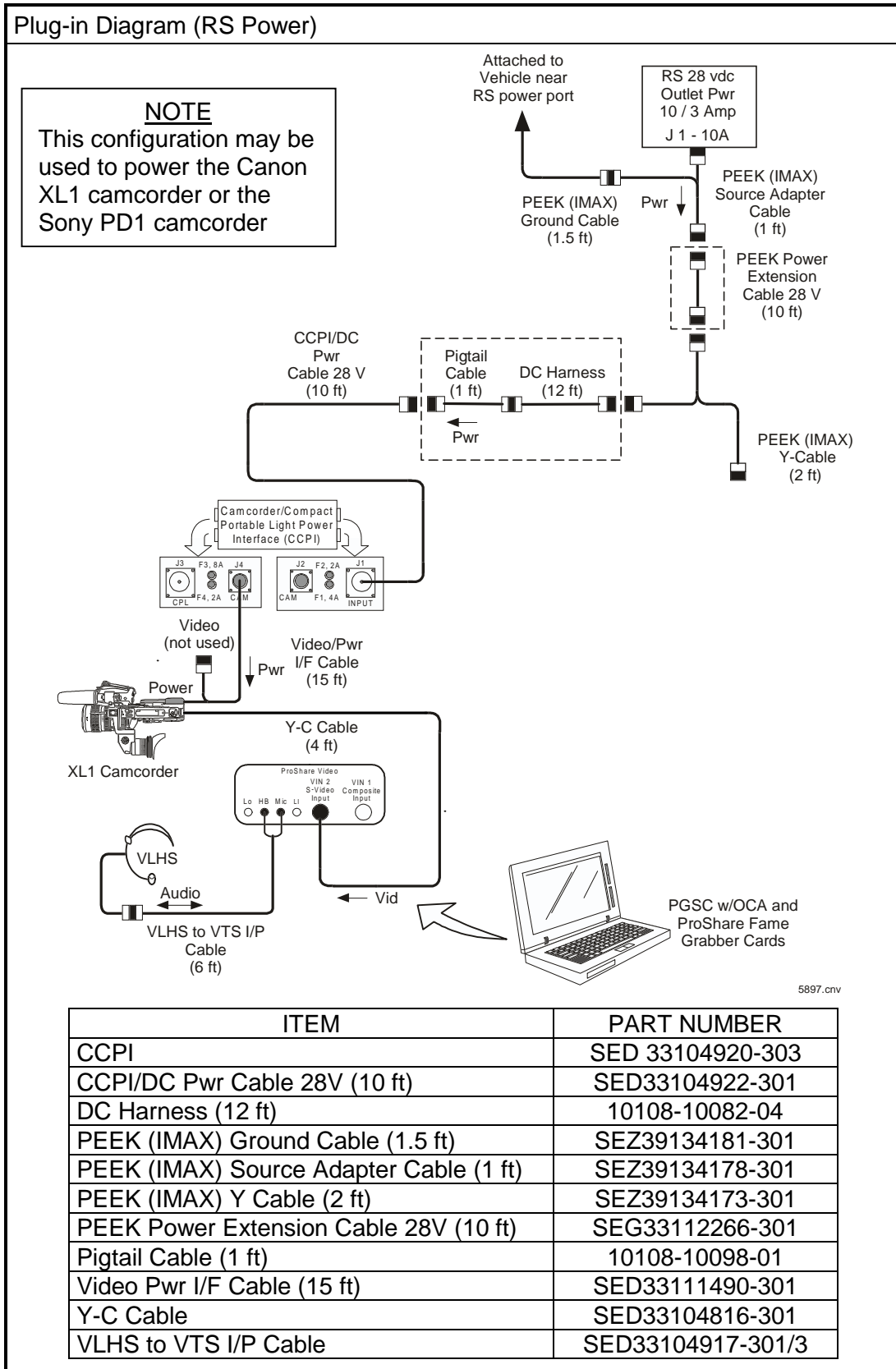
### OCA1 6. CREATING ADDITIONAL CLIPS

Repeat steps 4 and 5 as necessary to create additional clips.

## 5.204 CREATING AN .AVI FILE FROM CAMCORDER PLAYBACK

(POC/2R - ALL/FIN B)

Page 3 of 3 pages



5897.cnv



This Page Intentionally Blank

CUE CARDS

This Page Intentionally Blank

**6.101 THINKPAD CUE CARDS**

(POC/5A - ALL/FIN C)

Page 1 of 4 pages

I

TOP OF "SSC 4 CUE CARD"



TOP OF "SSC 5 CUE CARD"



TOP OF "SSC 6 CUE CARD"



TOP OF "PCS 1 CUE CARD"

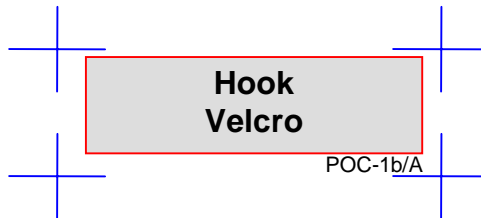


**6.101 THINKPAD CUE CARDS**

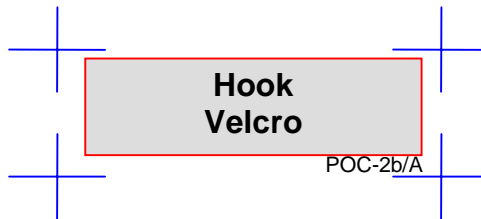
(POC/5A - ALL/FIN C)

Page 2 of 4 pages

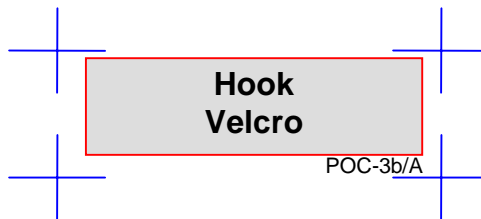
TOP BACK OF "SSC 4 CUE CARD"



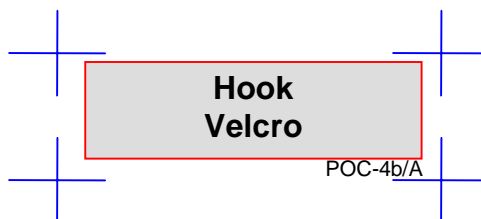
TOP BACK OF "SSC 5 CUE CARD"



TOP BACK OF "SSC 6 CUE CARD"



TOP BACK OF "PCS 1 CUE CARD"



**6.101 THINKPAD CUE CARDS**

(POC/5A - ALL/FIN C)

Page 3 of 4 pages

TOP OF "PCS 2 CUE CARD"



TOP OF "PCS 3 CUE CARD"

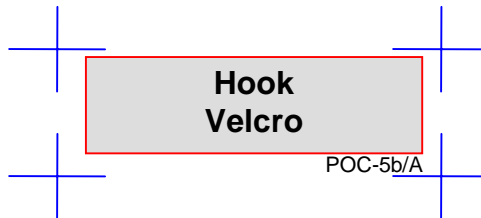


## 6.101 THINKPAD CUE CARDS

(POC/5A - ALL/FIN C)

Page 4 of 4 pages

TOP BACK OF "PCS 2 CUE CARD"



TOP BACK OF "PCS 3 CUE CARD"

