

29 APR 10

Sheet 1 of 1

List of Implemented CR(s):

Assy_OpsU-02109

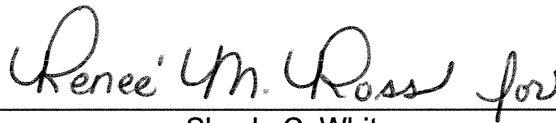
Uplinked Messages (or Approved Flight Notes) replaced by this PCN,
remove from Book:

None

Incorporates the following:

1. Replace cover
2. Replace iii thru vi
3. Replace 247 thru 250
4. File this PCN page immediately behind the front cover as a permanent record.

APPROVED BY:



Shayla C. White
Book Manager



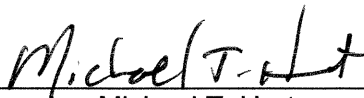
Manager, Flight Procedures

TGG

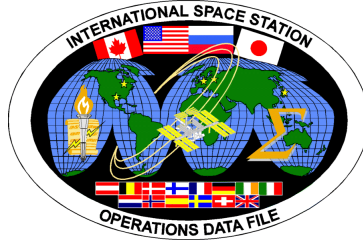


SODF Coordinator

ACCEPTED BY:



Michael T. Hurt
SODF Manager



International Space Station Assembly Operations Book

ISS-ULF4

**Mission Operations Directorate
Operations Division**

29 APR 10

*These procedures are available
electronically on the SODF Homepage
at <http://mod.jsc.nasa.gov/do3>*

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas



INTERNATIONAL SPACE STATION ASSEMBLY OPERATIONS ISS-ULF4

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* - Omit from flight book

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* - Omit from flight book

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183.....	12 FEB 10	233.....	12 FEB 10
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222.....	TPIB		

* - Omit from flight book

**INTERNATIONAL SPACE STATION
ASSEMBLY OPERATIONS
ISS-ULF4**

CUE CARD LIST OF EFFECTIVE PAGES

21 APR 10

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<u>Title</u>	<u>Page</u>	<u>Card Number</u>	<u>Date</u>	<u>Fab Notes</u>
SPINAL ELONGATION STANDING HEIGHT LOG				
(Front)	81	ASSY OPS-3a/ULF4/B	08 APR 10	
(Back)	82	ASSY OPS-3b/ULF4/B	08 APR 10	
(Front - Bottom)	83	ASSY OPS-3aa/ULF4/B	08 APR 10	
(Back - Bottom).....	84	ASSY OPS-3bb/ULF4/B	08 APR 10	
GLACIER STATUS CHECK				
(Front)	195	ASSY OPS-2a/ULF4/B	19 APR 10	
(Back)	196	ASSY OPS-2b/ULF4/B	19 APR 10	
CGBA STATUS CHECK				
(Front)	197	ASSY OPS-1a/ULF4/C	08 APR 10	
(Back)	198	ASSY OPS-1b/ULF4/C	08 APR 10	

APCU

SM
ALERT

APCU TRIP

(ASSY OPS/ULF4/FIN 2) Page 1 of 3 pages

[APCU TEMP ↓↑](#), block 2 (SODF: ASSY OPS: APCU)
[APCU VOLTS ↓↑](#), block 2 (SODF: ASSY OPS: APCU)
[APCU AMPS ↑](#), block 2 (SODF: ASSY OPS: APCU)

S200 APCU 1(2)
TRIP

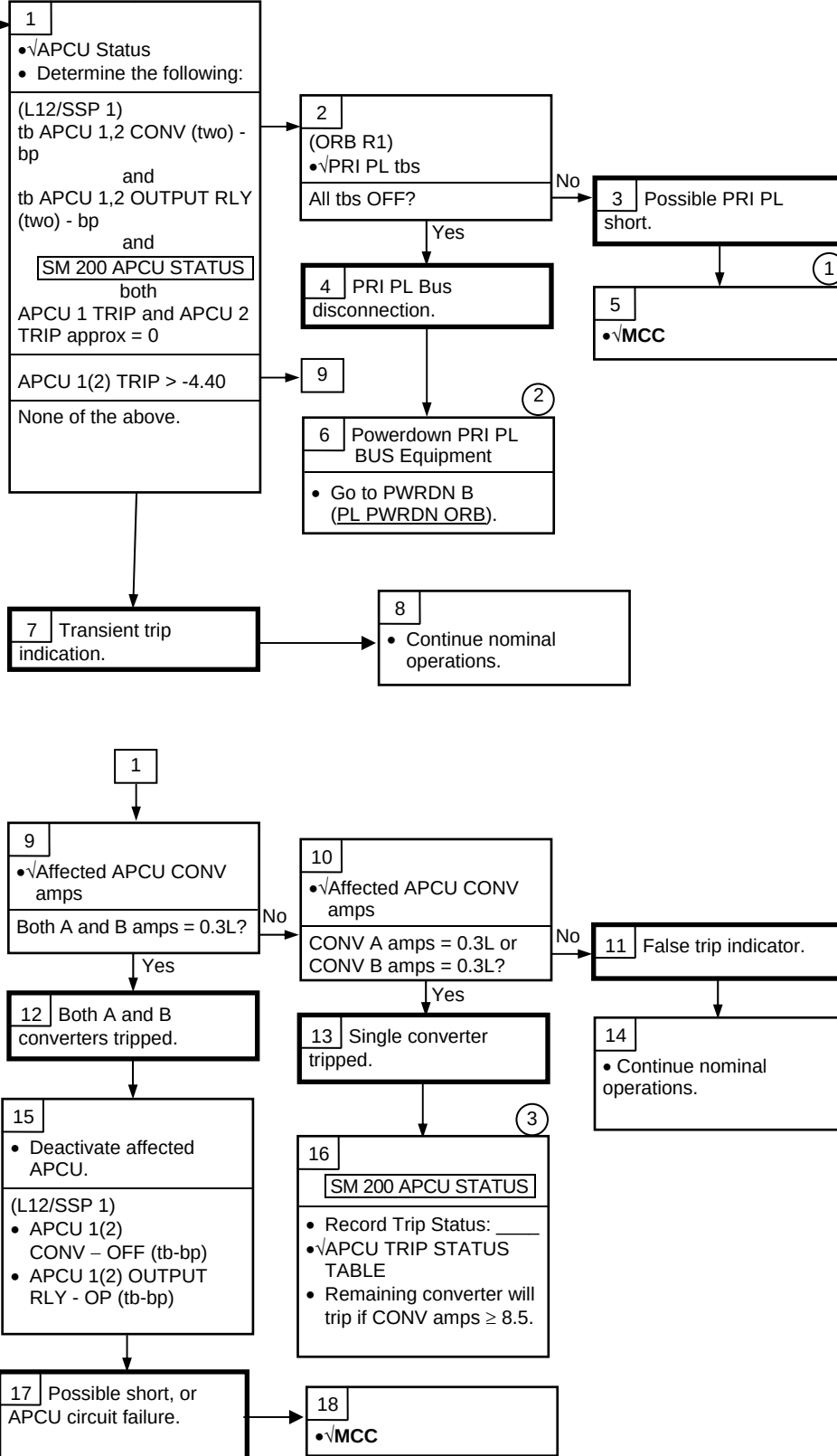
If APCU TRIP
> -4.4
√APCU TRIP
STATUS TABLE

Nominal Config:
R1
PRI PL MNC – ON
(tb-ON)
PL CAB
– MNA(MNB)
PL AUX – ON
L12 (SSP 1)
cb SW PWR 1 – cl

**Nominal APCU
Activated Config:**
L12 (SSP 1)

APCU 2 CONV
– ON (tb-gray)

APCU 2 OUTPUT
RLY – CL
(tb-gray)



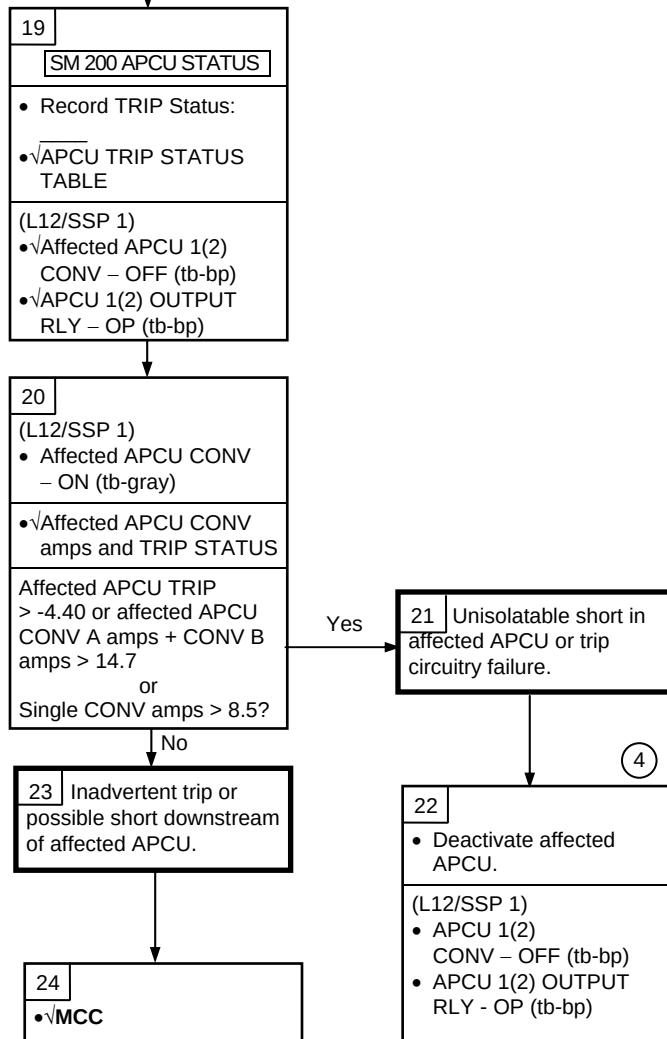
①
MCC will determine cause of interruption of power or signal to the APCUs.

②
MCC will coordinate recovery of the PRI PL bus and equipment.

③
 LCS/IDC receives power through APCU 2.

On **MCC GO** Only: Recovery Attempt with APCU Power Cycle

[APCU AMPS ↑](#), block 4 (SODF: ASSY OPS: APCU)



④

Loss of APCU 2 results in loss of 120 V power to LCS/IDC.

Table 1. APCU Trip Status

TRIP (STATUS VOLTAGE)	TRIP CAUSE(S)			
	OV	OUV	OC	IUV
+4.88	X	X	X	X
+4.23	X	X	X	
+3.59	X	X		X
+2.95	X	X		
+2.27	X		X	X
+1.62	X		X	
+0.98	X			X
+0.34	X			
-0.30		X	X	X
-0.95		X	X	
-1.59		X		X
-2.23		X		
-2.91			X	X
-3.56			X	
-4.20				X
-4.86 (no trip)				
NOTE OV: Output Overvoltage OUV: Output Undervoltage OC: Output Overcurrent IUV: Input Undervoltage Tolerance for all reported voltages is $\pm 0.20V$				

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