CH 4B(2B) BCDU/BATTERY CHECKOUT

NOTE
Execute this procedure one BDCU/Battery string at a time. One string will be completely activated prior to starting the next BCDU/Battery string.

1. CHECK IF BCDU 4B1(2B1) IS COMMUNICATING WITH PVCU

PCS P6: EPS: ENERGY STORAGE 4B(2B)

ENERGY STORAGE 4B(2B)

'BCDU 4B1(2B1)'

√Integ Counter - incrementing

2. VERIFY BCDU 4B1(2B1) BASEPLATE TEMPERATURE IS WITHIN SURVIVAL RANGE

√Baseplate Temp: -42.8 --- 82.2° C

3. VERIFY BCDU 4B1(2B1) VOLTAGE AND CURRENT SENSORS

√Primary Voltage: 130.0 --- 150.0 V
√Primary Current < 3.0 A
√FI Input Voltage < 4.0 V
√FI Input Current < 2.0 A
√Battery Voltage < 1.0 V
√Battery Current < 2.0 A
√CP RBI Voltage < 3.0 V
√CP RBI Current < 1.0 A

4. VERIFY BATTERY 4B11(2B11) SWITCH CONFIGURATION, ORU AND CELL VOLTAGES

'Battery 4B11(2B11)'

√Vbus < 4.0 V
√Drain - Open
√Htr 1,2 - Open

sel Cells

√02, 08, 20, 28 Volt < 0.02 V

5. VERIFY BATTERY 4B12(2B12) SWITCH CONFIGURATION, ORU AND CELL VOLTAGES

'Battery 4B12(2B12)'

√Vbus < 4.0 V
√Drain - Open
√Htr 1,2 - Open

sel Cells

√02, 08, 20, 28 Volt < 0.02 V

6. CHECK IF BCDU 4B2(2B2) IS COMMUNICATING WITH PVCU
   'BCDU 4B2(2B2)'

√Integ Counter - incrementing

7. VERIFY BCDU 4B2(2B2) BASEPLATE TEMPERATURE IS WITHIN SURVIVAL RANGE
   √Baseplate Temp: -42.8 --- 82.2° C

8. VERIFY BCDU 4B2(2B2) VOLTAGE AND CURRENT SENSORS
   √Primary Voltage: 130.0 --- 150.0 V
   √Primary Current < 3.0 A
   √FI Input Voltage < 4.0 V
   √FI Input Current < 2.0 A
   √Battery Voltage < 1.0 V
   √Battery Current < 2.0 A
   √CP RBI Voltage < 3.0 V
   √CP RBI Current < 1.0 A

9. VERIFY BATTERY 4B21(2B21) SWITCH CONFIGURATION, ORU AND CELL VOLTAGES
   'Battery 4B21(2B21)'

√Vbus < 4.0 V
√Drain - Open
√Htr 1,2 - Open

sel Cells

√02, 08, 20, 28 Volt < 0.02 V

10. VERIFY BATTERY 4B22(2B22) SWITCH CONFIGURATION, ORU AND CELL VOLTAGES
    'Battery 4B22(2B22)'

√Vbus < 4.0 V
√Drain - Open
√Htr 1,2 - Open

sel Cells

√02, 08, 20, 28 Volt < 0.02 V

11. DATA DUMP

NOTE
This is an **MCC** step only. If time permits, dump the cell voltages for each battery ORU.

Perform PVCA DATA DUMP procedure to dump cells 1 --- 38 for each battery ORU.

Print a hardcopy of the display containing the dump data.

√Cell 01 through 38 Volt < 0.02 V