Detailed Troubleshooting Recommendations:

1. Swap EMS CDU #2 with EMS CDU #1.
    a. If fault follows, return EMS CDUs to their original configuration and replace the EMS CDU 2.
    b. If fault remains, continue with next step.
2. Swap DCPC microprocessor cards.
    a. If the fault follows, return DCPC microprocessor cards to their original configuration and replace the right microprocessor card.
    b. If fault remains, continue with next step.
3. Replace DCPC supervisor card.
    a. If fault remains, continue with next step.

EMI Filter/Wiring check

4. Disconnect EMS CDU 2 connector A91P2 and A91P1.
5. Disconnect SPDA 1 connector A13P6.
6. Disconnect SPDA 4 connector A16P6.
7. Remove both DCPC microprocessor cards.
8. Open junction box #4 (JB4) and remove PCB2.
9. Do a continuity check with the connections that follow:

From	To
A91P2-5	Ground
A91P2-6	Ground
A91P1-7	Ground
A91P1-8	Ground

    a. If there is no continuity, continue with step 10.

    b. If there is continuity, disconnect DCPC connector A63P2.
        i. Do a continuity check with the connections that follow:

From	To
A91P2-5	Ground
A91P2-6	Ground
A91P1-7	Ground
A91P1-8	Ground

        ii. If there is continuity, repair defective wire.
        iii. If there is no continuity, replace DCPC.

CAUTION
To prevent damage to the DCPC motherboard connectors, ensure that the wire jumper pin outside diameter (OD)/socket inside diameter (ID) does not exceed 0.025 inch.

10. Do a continuity check with the connections that follow:

From	To
A91P2-5	P3A-23
A91P2-6	P3B-23
A91P1-7	P3A-22
A91P1-8	P3B-22
A91P1-7	P2A-22
A91P1-8	P2B-22

    a. If there is continuity, continue to step 11
    b. If there is no continuity, disconnect DCPC connector A63P2.
        i. Do a continuity check with the connections that follow:

From	To
A63J2-V	P3A-23
A63J2-j	P3B-23
A63J2-h	P3A-22
A63J2-T	P3B-22
A63J2-h	P2A-22
A63J2-T	P2B-22

        ii. If there is no continuity, replace DCPC.
        iii. If there is continuity, repair defective wiring between DCPC and EMS CDU2 / SPDA 1 / SPDA 4 / JB4.

DCPC Data Bus check

11. Make sure that the EXT AC cord is not connected to the aircraft.
12. Remove one of four DCPC SPDA Feeder cards.
13. Set BMS to ON.

Note
Monitor the fault via the DC Synoptic page or the Counters (EMS CDU Diagnostic Mode)

14. Verify if the fault is still present.
    a. If not, replace the defective DCPC SPDA Feeder card.
    b. If yes, repeat step 12 to 14 for the other DCPC SPDA Feeder cards until the fault is corrected.
15. Remove one of three PLC cards.
16. Set BMS to ON.
17. Verify if the fault is still present.
    a. If not, replace the defective PLC.
    b. If yes, repeat step 15 to 17 for the other PLC cards until the fault is corrected.
18. Remove one of two DCPQM cards.
19. Set BMS to ON.

20. Verify if the fault is still present.
    a. If not, replace the defective DCPQM card.
    b. If yes, repeat step 18 to 20 for the other DCPQM cards until the fault is corrected.
21. Remove Cabin DC Feeder card.
22. Set BMS to ON.
23. Verify if the fault is still present.
    a. If not, replace the defective Cabin DC Feeder card.
    b. If yes, continue with next step.
24. Remove BATT/RAT card.
25. Set BMS to ON.
26. Verify if the fault is still present.
    a. If not, replace the defective BATT/RAT card.
    b. If yes, replace DCPC