

DC Power Distribution Equipment (DCPDE) RESET Task (G5000 CONFIGURATION)

A. Reference Information

REFERENCE	DESIGNATION
SMM TASK 24-03-50-863-801	Opening of the Power Distribution Equipment Circuit Breakers
SMM TASK 24-03-50-863-802	Closing of the Power Distribution Equipment Circuit Breakers

B. Job Set-up

Note: Possible circuit breaker states are ON, OFF, TRIP, Blocked, Locked, X and No Data.

The ON, OFF, and TRIP states can be changed from the CB page. The other functions and states are accessed through the SYSTEM page when the Cabin Electronics System (CES) is in the MAINTENANCE mode. For operations in MAINTENANCE mode, the aircraft must be in a weight-on-wheels condition. See the SMM 24-52-50 system description section for more details.

Note: The following procedure uses the galley touchscreen as the main interface to the Circuit Protection Devices (CPD, also referred to as circuit breakers) of the CES.

If the galley touchscreen is inoperative, the crew rest area touchscreen can be configured as Galley Touchscreen, also, the CMC Electronic Flight Bag provides access to maintenance pages including the Electrical Power.

Note: For safety purposes, Make sure that you always have access to the maintenance / circuit breaker pages from the Crew rest touchscreen or the cockpit Electronic Flight Bag (EFB).

Note: Under low temperatures do not leave the system inoperable for more than 3 minutes to prevent freezing of the water lines and possible damage to equipment.

1. DC PDE Access

- (a) Make sure that the cabin power is applied.
- (b) Select the **MAINTENANCE** tab on the Galley Touchscreen or on the cockpit Electronic Flight Bag (EFB).
- (c) Select **SYSTEM**.
- (d) Use the keyboard to type the appropriate password.

Note: The Username should be **ADMIN** by default and the password is **123456**.

- (e) Select **ENTER** or **SUBMIT**.

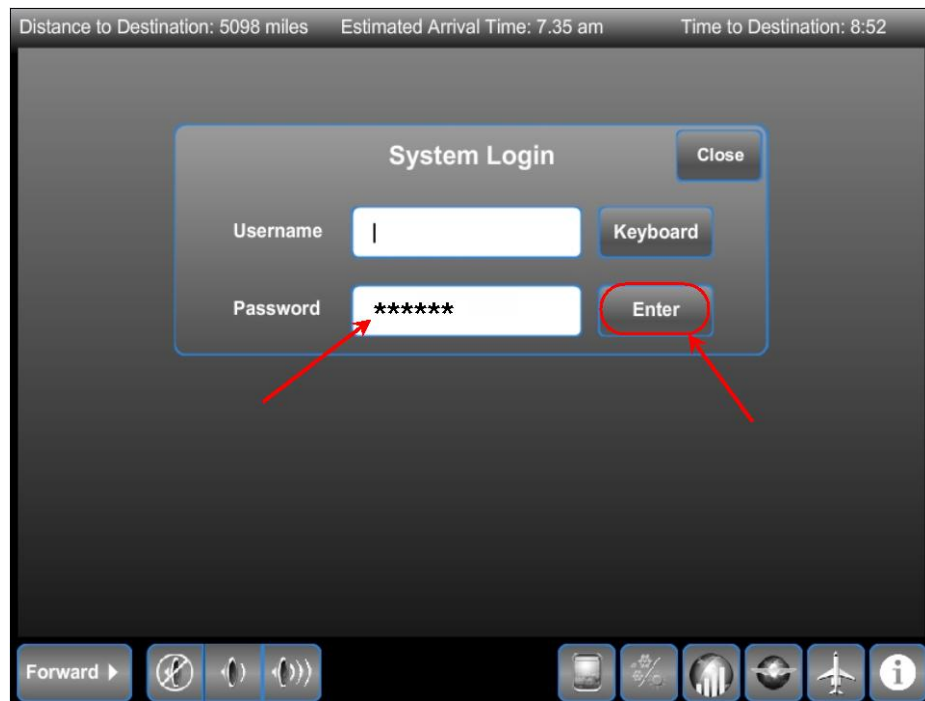


Figure 1 System Login page.

(f) Select **Power** icon.



Figure 2 System page.

(g) On the Galley touchscreen, at the DC PDE 1 page Select **DC PDE 1**.

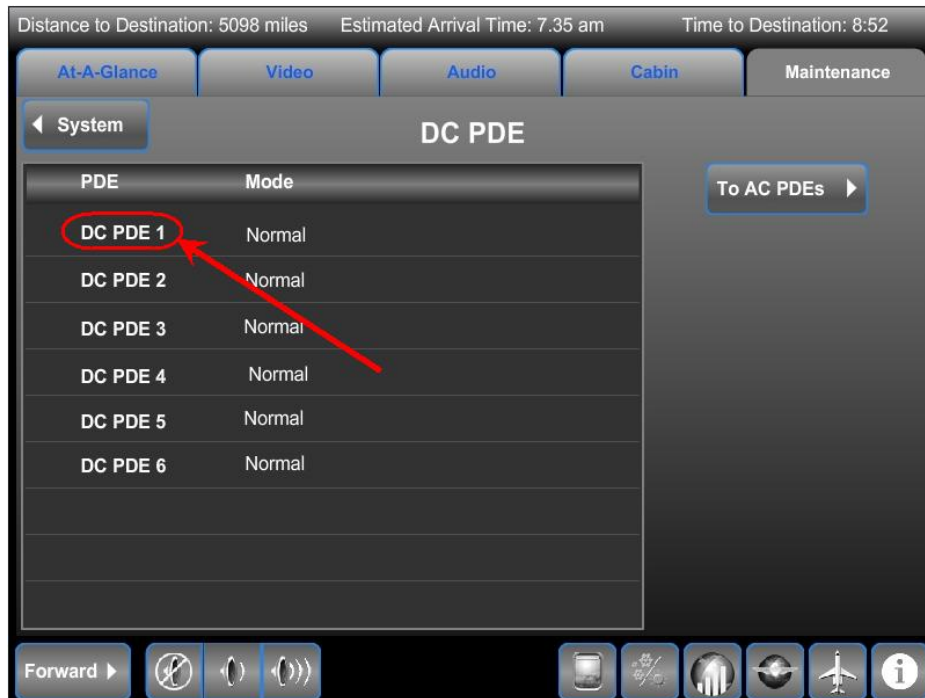


Figure 3 DC PDE page.

C. Procedure

1. DCPDE 1 Reset

Note: Make sure that you have access to the circuit breaker page through the cockpit EFB. By setting OFF the DC 2 CABIN FEED 2 circuit breaker; the galley touchscreen will not be available.

- (a) In the flight compartment, on the Electrical Management System Control Display Unit (EMS CDU), set the circuit breaker that follow to OUT (AMM TASK 24-00-00-863-801):

SYSTEM NAME	CIRCUIT BREAKER NAME	BUS NAME
ELEC	DC 2 CABIN FEED 2	DC 2

Note: The following systems or LRU's attached to the DCPDE 1 will be INOP. You will see this by viewing on the Galley touchscreen, at the DC PDE 1 page.

DCPDE 1	<ul style="list-style-type: none"> • ENTRY FAN • AC PDE 1, 4 • RDE 1 • ZDE 1, 3
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	<ul style="list-style-type: none"> • READ / TABLE LTS LH • GALLEY t/SCREEN • FL LT CHG / PRT SERVER • MAINT / WHEELWHEEL LTS • WINDOW SHADES LH • SOURCE EQUIP
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Note: The ACPDE 1 and 4 will be INOPERATIVE during the DCPDE 1 reset.

(b) Wait 60 seconds.

(c) In the flight compartment, on the Electrical Management System Control Display Unit (EMS CDU), set the circuit breaker that follow to IN (AMM TASK 24-00-00-863-802):

SYSTEM NAME	CIRCUIT BREAKER NAME	BUS NAME
ELEC	DC 2 CABIN FEED 2	DC 2

(d) Wait until the galley touchscreen and ZDE 1 & 3 finish their boot-up cycles.

(e) Follow the steps (a) to (f) of the job set- up section to get access at DC PDEs page.

(f) On the Galley touchscreen, at the DC PDE page Select DC PDE 1.

Note: Make sure that the DC PDE 1 shows NORMAL.

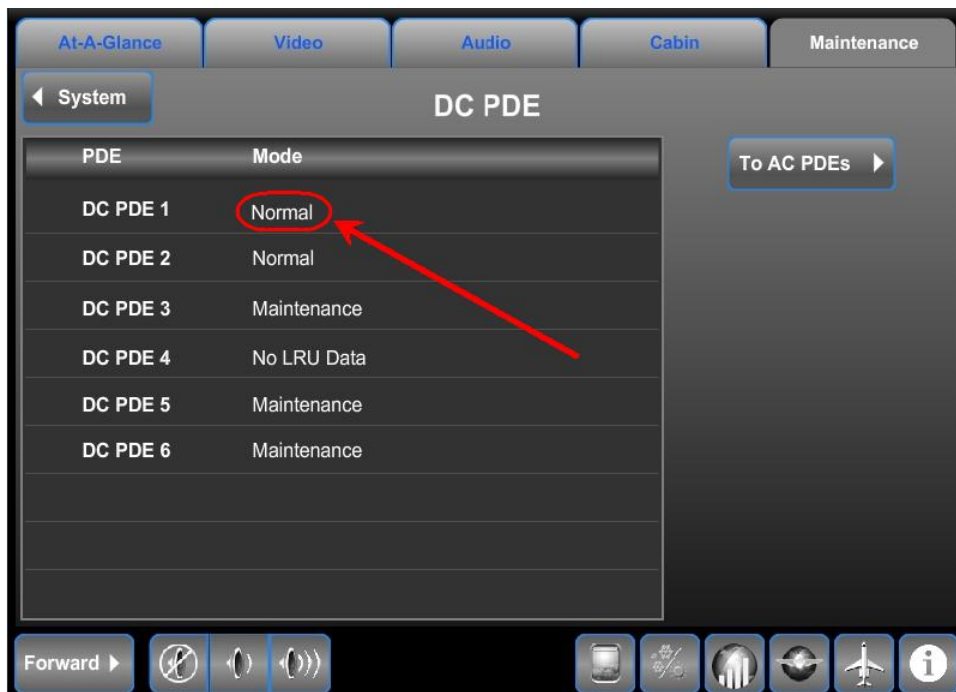


Figure 4, DC PDE page.

- (g) Make sure that the circuit breaker states are not TRIP, Blocked, Locked, X or No Data.
- (h) Make sure the circuit breaker shows the proper rating. Incorrect ratings may cause equipment failure.



Figure 5, DC PDE Modes failures

2. DCPDE 2 Reset

Note: If you do not turn the water system to OFF the water lines will drain when the DCPDE 2 power will be apply back.

- (a) On the Galley touchscreen, go to the Cabin tab.
- (b) Select the Water icon.
- (c) On the water page, turn the water system to OFF and all of the water heaters. (Galley, Forward and Aft)

Note: If you don't do this, the FWD and AFT DRAIN MAST will over heat.

- (d) On the Galley touchscreen, set the circuit breakers that follow to LOCKED (SMM 24-03-50-863-801):

SYSTEM NAME	CIRCUIT BREAKER NAME	PDE
WATER / WASTE	FWD DRAIN MAST	ACPDE 1

WATER / WASTE	AFT DRAIN MAST	ACPDE 5
WATER / WASTE	WATER SYS/EIB	DCPDE 2

(e) In the flight compartment, on the Electrical Management System Control Display Unit (EMS CDU), set the circuit breaker that follow to OUT (AMM TASK 24-00-00-863-801):

SYSTEM NAME	CIRCUIT BREAKER NAME	BUS NAME
ELEC	DC 2 CABIN FEED 1	DC 2

Note: The following systems or LRU's attached to the DCPDE 2 will be INOP. You will see this by viewing on the Galley touchscreen, at the DC PDE 2 page.

DCPDE 2	<ul style="list-style-type: none"> • AC PDE 2, 5 • ZDE 2 • FWD DOME / LAV LTS • WINDOW SHADES RH • WOW • FWD VIDEO MON • WATER SYS / EIB
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Note: The ACPDE 2 and 5 and the attached LRU's will be INOPERATIVE during the DCPDE 2 reset.

(f) Wait 60 seconds.

(g) In the flight compartment, on the Electrical Management System Control Display Unit (EMS CDU), set the circuit breaker that follow to IN (AMM TASK 24-00-00-863-802):

SYSTEM NAME	CIRCUIT BREAKER NAME	BUS NAME
ELEC	DC 2 CABIN FEED 1	DC 2

(h) On the Galley touchscreen, set the circuit breakers that follow to IN (SMM 24-03-50-863-802):

SYSTEM NAME	CIRCUIT BREAKER NAME	PDE
WATER / WASTE	FWD DRAIN MAST	ACPDE 1
WATER / WASTE	AFT DRAIN MAST	ACPDE 5
WATER / WASTE	WATER SYS/EIB	DCPDE 2

(i) Follow the steps (a) to (f) of the job set- up section to get access at DC PDEs page.

(j) On the Galley touchscreen, at the DC PDE page Select DC PDE 2.

- (k) Make sure the DCPDE 2 mode shows NORMAL.
- (l) Make sure that the circuit breaker states are not TRIP, Blocked, Locked, X or No Data.
- (m) Make sure the circuit breaker shows the proper rating. Incorrect ratings may cause equipment failure.
- (n) On the Galley touchscreen, go to the Cabin tab.
- (o) Select the Water icon.
- (p) On the water page, turn the water system to ON and all of the water heaters. (Galley, Forward and Aft)

3. DCPDE 3 Reset

Note: By removing the power from the DCPDE 3, the galley touchscreen will not be available.

- (a) In the flight compartment, on the Electrical Management System Control Display Unit (EMS CDU), set the circuit breaker that follow to OUT (AMM TASK 24-00-00-863-801):

SYSTEM NAME	CIRCUIT BREAKER NAME	BUS NAME
ELEC	DC 1 CABIN FEED 1	DC 1

Note: The following systems or LRU's attached to the DCPDE 3 will be INOP. You will see this by viewing on the Galley touchscreen, at the DC PDE 3 page.

DCPDE 3	<ul style="list-style-type: none"> • RDE 3 • ACCENTS / DIRECTOR • PCU LH • SWITCH PANELS LH • LUMBARs • BAGGAGE LTS • OPTIONAL SOURCE EQUIP • ELECT TABLES • MISC LTS • AFT VIDEO MON • PYLON LTS • APU / AFT EQUIP BAY
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- (b) Wait 60 seconds.
- (c) In the flight compartment, on the Electrical Management System Control Display Unit (EMS CDU), set the circuit breaker that follow to IN (AMM TASK 24-00-00-863-802):

SYSTEM NAME	CIRCUIT BREAKER NAME	BUS NAME
ELEC	DC 1 CABIN FEED 1	DC 1

- (d) Follow the steps (a) to (f) of the job set- up section to get access at DC PDEs page.
- (e) On the Galley touchscreen, at the DC PDE page Select DC PDE 3.
- (f) Make sure the DCPDE 3 mode shows NORMAL.
- (g) Make sure that the circuit breaker states are not TRIP, Blocked, Locked, X or No Data.
- (h) Make sure the circuit breaker shows the proper rating. Incorrect ratings may cause equipment failure.

4. DCPDE 4 Reset

- (a) In the flight compartment, on the Electrical Management System Control Display Unit (EMS CDU), set the circuit breaker that follow to OUT (AMM TASK 24-00-00-863-801):

SYSTEM NAME	CIRCUIT BREAKER NAME	BUS NAME
ELEC	DC 2 CABIN FEED 3	DC 2

Note: The following systems or LRU's attached to the DCPDE 4 will be INOP. You will see this by viewing on the Galley touchscreen, at the DC PDE 4 page.

DCPDE 4	<ul style="list-style-type: none"> • ZDE 2, 4 • WASTE FCU 1 / HIU • PCU RH • READ / TABLE LTS RH • AFT LAV MIRROR LT • AC PDE 3 • RDE 4 • SWITCH PANELS RH • WASTE / FCU 2 LCM • SOURCE EQPT ENCODER
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Note: The ACPDE 3 and the ZDE 4 and the attached LRU's will be INOPERATIVE during the DCPDE 4 reset.

- (b) Wait 60 seconds.

(c) In the flight compartment, on the Electrical Management System (EMS) Control Display Unit (CDU), set the circuit breaker that follow to IN (AMM TASK 24-00-00-863-802):

SYSTEM NAME	CIRCUIT BREAKER NAME	BUS NAME
ELEC	DC 2 CABIN FEED 3	DC 2

Note: Wait until the ZDE 4 finish its boot-up (4 min. aprox.)

- (d) Follow the steps (a) to (f) of the job set- up section to get access at DC PDEs page.
- (e) On the Galley touchscreen, at the DC PDE page Select DC PDE 4.
- (f) Make sure the DCPDE 4 mode shows NORMAL.
- (g) Make sure that the circuit breaker states are not TRIP, Blocked, Locked, X or No Data.
- (h) Make sure the circuit breaker shows the proper rating. Incorrect ratings may cause equipment failure.

5. DCPDE 5 Reset

Note: If the security system is installed, make sure that the system is not armed.

(a) On the Galley touchscreen, set the circuit breaker that follows to OFF (SMM TASK 24-03-50-863-801):

SYSTEM NAME	CIRCUIT BREAKER NAME	PDE
ELECTRICAL POWER	TRU	ACPDE 4

Note: The following systems or LRU's, attached to the DCPDE 5 will be INOP. You will see this by viewing on the Galley touchscreen, at the DC PDE 5 page.

DCPDE 5	<ul style="list-style-type: none"> • CAMERA (OPTION) • PASS MON LH FWD • PASS MON LH MID • CAMERA ENCODERS (OPTION) • SECURITY SYST (OPTION) • POP-UP MON • PAX MON RH FWD • PASS MON RH AFT
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	<ul style="list-style-type: none"> • PASS MON LH AFT • IFE 2 ENCODER • SOURCE EQUIP ENCODER
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Note: The DCPDE 6 and the attached LRU's will be INOPERATIVE during the DCPDE 5 reset.

(b) Wait 60 seconds.

(c) On the Galley touchscreen, set the circuit breaker that follows to IN (SMM TASK 24-03-50-863-802):

SYSTEM NAME	CIRCUIT BREAKER NAME	PDE
ELECTRICAL POWER	TRU	ACPDE 4

(d) Follow the steps (a) to (f) of the job set- up section to get access at DC PDEs page.

(e) On the Galley touchscreen, at the DC PDE page Select DC PDE 5.

(f) Make sure the DCPDE 5 mode shows NORMAL.

(g) Make sure that the circuit breaker states are not TRIP, Blocked, Locked, X or No Data.

(h) Make sure the circuit breaker shows the proper rating. Incorrect ratings may cause equipment failure.

6. DCPDE 6 Reset

Note: If the security system is installed, make sure that the system is not armed.

(a) On the Galley touchscreen, set the circuit breakers that follow to OFF (SMM TASK 24-03-50-863-801):

SYSTEM NAME	CIRCUIT BREAKER NAME	PDE
ELECTRICAL POWER	TRU	ACPDE 4

Note: The following systems or LRU's, attached to the DCPDE 6 will be INOP. You will see this by viewing on the Galley touchscreen, at the DC PDE 6 page.

DCPDE 6	<ul style="list-style-type: none"> • POP-UP MON • SAT TV SSP • SAT TV RDU / ENCODER • PAX MON MID/AFT LH
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	<ul style="list-style-type: none"> • PAX MON FWD LH • EXCHANGE DTRS • EXCHANGE CUPS
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Note: The DCPDE 5 and the attached LRU's will be INOPERATIVE during the DCPDE 6 reset.

(b) Wait 60 seconds.

(c) On the Galley touchscreen, set the circuit breakers that follow to ON (SMM TASK 24-03-50-863-802):

SYSTEM NAME	CIRCUIT BREAKER NAME	PDE
ELECTRICAL POWER	TRU	ACPDE 4

(a) Follow the steps (a) to (f) of the job set- up section to get access at DC PDEs page.

(b) On the Galley touchscreen, at the DC PDE page Select DC PDE 6.

(c) Make sure the DCPDE 6 mode shows NORMAL.

(d) Make sure that the circuit breaker states are not TRIP, Blocked, Locked, X or No Data.

(e) Make sure the circuit breaker shows the proper rating. Incorrect ratings may cause equipment failure.