

## AC Power Distribution Equipment (ACPDE) 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 2 minutes to prevent freezing of the water lines and possible damage to equipment.

Note: The information in this procedure was valid at the time of aircraft delivery. Circuit breaker settings, names, and Power Distribution Equipment (PDE) names may be changed through the system software.

## 1. AC 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**.

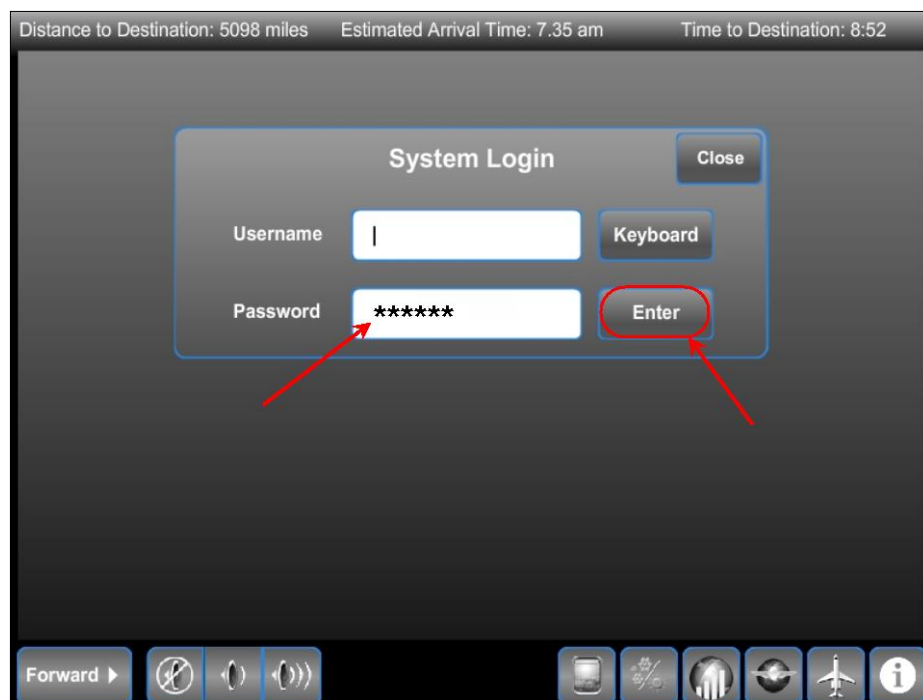


Figure 1 System Login page.

(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. ACPDE 1 Reset

Note: By removing the power from the ACPDE 1, the AFT DRAIN MAST and some PWS heaters will not be available.

- (a) On the Galley touchscreen, at the DC PDE 1 page et the circuit breaker that follow to OFF (SMM 24-03-50-863-801) :

SYSTEM NAME	CIRCUIT BREAKER NAME	PDE
ELEC	AC PDE 1	DCPDE 1

Note: By setting the AC PDE 1 circuit breaker to OFF, the circuit breakers of the AC PDE 4 will show NO DATA.

- (b) In the baggage compartment, on the AC Power Center (ACPC), set the circuit breaker that follow to OFF:

LOCATION	CB NO.	NAME	ZONE
ACPC	B-5	AC 1 CABIN FEED	252

Note: By pulling the AC 1 CABIN FEED circuit breaker, the power for the ACPDE 4, Cabin TRU, DC PDE 5 and DC PDE 6 will not be available.

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

ACPDE 1	<ul style="list-style-type: none"><li>• WTR HTR FWD LAV</li><li>• WTR HTR GALLEY</li><li>• AUDIO AMP</li><li>• FWD WASH LIGHTS LH</li><li>• FWD WASH LIGHTS RH</li><li>• FWD DRAIN MAST</li><li>• WATER LINE HEATER</li><li>• PWS AFT FUSE HTR</li><li>• RH FWD MON LT (OPTION)</li><li>• INSTA -HOT (OPTION)</li><li>• HOT CUP (OPTION)</li></ul>
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- (c) Wait 60 seconds.

(d) On the Galley touchscreen, at the DC PDE 1 page set the circuit breaker that follow to ON (SMM 24-03-50-863-802):

SYSTEM NAME	CIRCUIT BREAKER NAME	PDE
ELEC	AC PDE 1	DCPDE 1

(e) In the baggage compartment, on the AC Power Center (ACPC), set the circuit breaker that follow to IN :

LOCATION	CB NO.	NAME	ZONE
ACPC	B-5	AC 1 CABIN FEED	252

(f) On the Galley touchscreen, at the DC PDE 1 page select the Close icon.

(g) Select **To AC PDEs** icon on the DC PDE page.



Figure 4 DC PDE page to AC PDE page.

(h) Select ACPDE 1 on the AC PDE page.

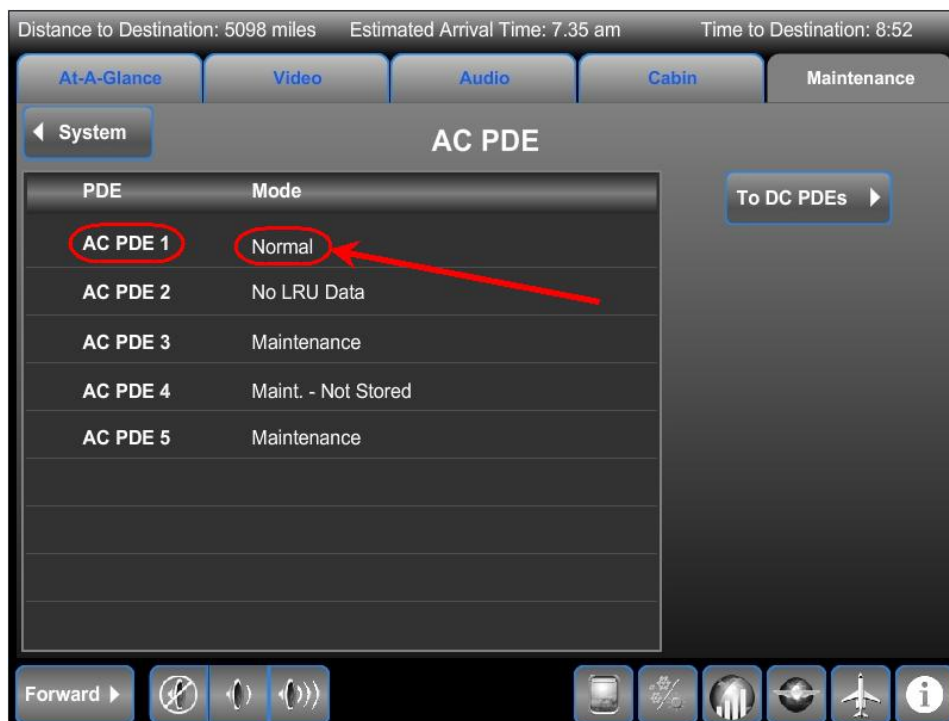


Figure 5 AC PDE page.

- (i) Make sure the ACPDE 1 mode shows NORMAL.
- (j) Make sure that the circuit breaker states are not TRIP, Blocked, Locked, X or No Data.
- (k) Make sure the circuit breaker shows the proper rating. Incorrect ratings may cause equipment failure.



Figure 6 AC PDE 1 page.

## 2. ACPDE 2 Reset

- (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 2.
- (c) On the Galley touchscreen, at the DC PDE 2 page set the circuit breaker that follow to OFF (SMM 24-03-50-863-801):

SYSTEM NAME	CIRCUIT BREAKER NAME	PDE
ELEC	AC PDE 2	DCPDE 2

Note: By setting the AC PDE 2 circuit breaker to OFF, the circuit breakers of the AC PDE 5 will show NO DATA.

- (d) In the baggage compartment, on the AC Power Center (ACPC), set the circuit breaker that follow to OFF:

LOCATION	CB NO.	NAME	ZONE
ACPC	B-3	AC 3 CABIN FEED	252

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

ACPDE 2	<ul style="list-style-type: none"> <li>• COFFE MAKER</li> <li>• ESPRESSO</li> <li>• ENTRY HTR</li> <li>• MAT HTRS</li> <li>• CONV OVEN</li> <li>• AFT SWR WTR HTR (OPTION)</li> <li>• LOWE MICROWAVE (OPTION)</li> </ul>
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- (e) Wait 60 seconds.
- (f) On the Galley touchscreen, at the DC PDE 2 page set the circuit breaker that follow to ON (SMM 24-03-50-863-802):

SYSTEM NAME	CIRCUIT BREAKER NAME	PDE
ELEC	AC PDE 2	DCPDE 2

- (g) In the baggage compartment, on the AC Power Center (ACPC), set the circuit breaker that follow to IN:

LOCATION	CB NO.	NAME	ZONE
ACPC	B-3	AC 3 CABIN FEED	252

- (h) On the Galley touchscreen, at the DC PDE 2 page select the Close icon.
- (i) On the Galley Touchscreen Select **To AC PDEs** icon.
- (j) Select ACPDE 2 on the AC PDE page.
- (k) Make sure the ACPDE 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.

### 3. ACPDE 3 Reset

- (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 4.

(c) On the Galley touchscreen, at the DC PDE4 page set the circuit breaker that follow to OFF (SMM 24-03-50-863-801):

SYSTEM NAME	CIRCUIT BREAKER NAME	PDE
ELEC	AC PDE 3	DCPDE 4

(d) In the baggage compartment, on the AC Power Center (ACPC), set the circuit breaker that follow to OFF:

LOCATION	CB NO.	NAME	ZONE
ACPC	B-1	AC 4 CABIN FEED	252

Note: By pulling the AC 4 CABIN FEED circuit breaker, the AC power for the ACPDE 5 will not be available.

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

ACPDE 3	<ul style="list-style-type: none"> <li>• VACUUM GEN</li> <li>• WASTE LINES HTR 1</li> <li>• WASTE LINES HTR 2</li> <li>• WASTE LINES HTR 3</li> <li>• AFT WASH LIGHTS</li> <li>• WTR HTR AFT LAV</li> <li>• AFT PWS HTR</li> <li>• AFT LAV WASH LIGHTS</li> <li>• HST 1</li> <li>• HST 2</li> </ul>
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(e) Wait 60 seconds.

(f) On the Galley touchscreen, at the DC PDE 4 page set the circuit breaker that follow to ON (SMM 24-03-50-863-802):

SYSTEM NAME	CIRCUIT BREAKER NAME	PDE
ELEC	AC PDE 3	DCPDE 4

(g) In the baggage compartment, on the AC Power Center (ACPC), set the circuit breaker that follow to IN:

LOCATION	CB NO.	NAME	ZONE
ACPC	B-1	AC 4 CABIN FEED	252

- (h) On the Galley touchscreen, at the DC PDE 4 page select the Close icon.
- (i) On the Galley Touchscreen Select **To AC PDEs** icon.
- (j) Select ACPDE 3 on the AC PDE page.
- (k) Make sure the DCPDE 3 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.



#### 4. ACPDE 4 Reset

- (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 1.
- (c) On the Galley touchscreen, at the DC PDE 1 page set the circuit breaker that follow to OFF (SMM 24-03-50-863-801):

SYSTEM NAME	CIRCUIT BREAKER NAME	PDE
ELEC	AC PDE 4	DCPDE 1

Note: By setting the AC PDE 4 circuit breaker to OFF, the circuit breakers of the AC PDE 1 will show NO DATA.

(d) In the baggage compartment, on the AC Power Center (ACPC), set the circuit breaker that follow to OFF:

LOCATION	CB NO.	NAME	ZONE
ACPC	B-5	AC 1 CABIN FEED	252

Note: By pulling the AC 1 CABIN FEED circuit breaker, the power for the ACPDE 1 will not be available.

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

ACPDE 4	<ul style="list-style-type: none"> <li>• SEATS RH FWD</li> <li>• SEATS LH FWD</li> <li>• WASH LTS FWD LAV / GAL</li> <li>• FWD DRAIN MAST</li> <li>• AUDIO AMP</li> <li>• HUMIDIFIER HTR (OPTION)</li> <li>• INSTANT HOT (OPTION)</li> <li>• FWD SSP (OPTION)</li> <li>• AFT SSP (OPTION)</li> </ul>
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(e) Wait 60 seconds.

(f) On the Galley touchscreen, at the DC PDE1 page set the circuit breaker that follow to ON (SMM 24-03-50-863-802):

SYSTEM NAME	CIRCUIT BREAKER NAME	PDE
ELEC	AC PDE 4	DCPDE 1

(g) In the baggage compartment, on the AC Power Center (ACPC), set the circuit breaker that follow to IN:

LOCATION	CB NO.	NAME	ZONE
ACPC	B-5	AC 1 CABIN FEED	252

(h) On the Galley touchscreen, at the DC PDE 1 page select the Close icon.

(i) On the Galley Touchscreen Select **To AC PDEs** icon.

(j) Select ACPDE 4 on the AC PDE page.

(k) Make sure the ACPDE 4 mode shows NORMAL.

- (l) sure Make 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.

**5. ACPDE 5 Reset**

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

- (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 2.
- (c) On the Galley touchscreen, at the DC PDE 2 page set the circuit breaker that follow to OFF (SMM 24-03-50-863-801):

SYSTEM NAME	CIRCUIT BREAKER NAME	PDE
ELEC	AC PDE 5	DCPDE 2

Note: By setting the AC PDE 5 circuit breaker to OFF, the circuit breakers of the AC PDE 2 will show NO LRU DATA.

- (d) In the baggage compartment, on the AC Power Center (ACPC), set the circuit breaker that follow to OFF:

LOCATION	CB NO.	NAME	ZONE
ACPC	B-1	AC 4 CABIN FEED	252

Note: By pulling the AC 4 CABIN FEED circuit breaker, the AC power for the AC PDE 3 will not be available.

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

ACPDE 5	<ul style="list-style-type: none"> <li>• MICROWAVE OVEN</li> <li>• AFT DRAIN MAST</li> <li>• CHILLER</li> <li>• PWS FWD INT HTR</li> <li>• 2<sup>ND</sup> COFFEE MAKER (OPTION)</li> </ul>
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- (e) Wait 60 seconds.
- (f) On the Galley touchscreen, at the DC PDE 2 page set the circuit breaker that follow to ON (SMM 24-03-50-863-802):

SYSTEM NAME	CIRCUIT BREAKER NAME	PDE
ELEC	AC PDE 5	DCPDE 2

- (g) In the baggage compartment, on the AC Power Center (ACPC), set the circuit breaker that follow to IN:

LOCATION	CB NO.	NAME	ZONE
ACPC	B-1	AC 4 CABIN FEED	252

- (h) On the Galley touchscreen, at the DC PDE 2 page select the Close icon.
- (i) On the Galley Touchscreen Select **To AC PDEs** icon.
- (j) Select ACPDE 5 on the AC PDE page.
- (k) Make sure the ACPDE 5 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.