

Potable Water Supply System

**FedEx Aircraft Maintenance
Work Card**

500 HANGAR MX	DIS DISCARD	WO
100	Potable Water Supply System	
000 Day 0 - Shift 0	B777 FCG	WORK CARD 38-010-00-01
A/C Registration	Page 1 of 9	REV/PRINT DATE 18-Apr-2011

Date Accomplished: Sign-Off's Complete:

TOOLS/MATERIALS

FEDEX APPROVED EQUIVALENT SUBSTITUTES MAY BE USED

Materials

CPN	Part Number	Description/CON Number	Unit	Qty	Cont
2510308	150G	FILTER,WATER FILTER	EA	1.00	
0300889	AA59147	DISINFEC,CITRIC ACID 50LB BAG	EA	As Required	
3810862	EV034401	GASKET,LAV WATER HEATER	EA	1.00	
0300153	PUROGENE	OXINE,DPM 6062 CHLORDIOXD DISI	GL	As Required	

Tooling

CPN	Part Number	Description/CON Number	Unit	Qty	Cont
T380011	600306	TOOL,POTABLE WATER SERV	EA	1.00	

Zone

Zone	Description
100	LOWER FUSELAGE

FleetTail	Work Card Title	Card No.	Date 18-Apr-2011
B777 FCG	FOR REFERENCE ONLY Potable Water Supply System	38-010-00-01	Page 2 of 9

Disinfect POTABLE WATER SUPPLY SYSTEM. (As required by the applicable regulatory authority.)

1. Potable Water System - Disinfectant

A. General

The intent of this task is to provide a solution of disinfectant to the potable water system that achieves a concentration of 100 ppm (parts per million). When preparing the disinfectant solution, the stabilized chlorine dioxide (Purogene) and the citric acid are both measured by volume (fluid ounces or liters).

B. Prepare to Disinfectant the Potable Water System.

WARNING: IF THE POTABLE WATER SYSTEM IS NOT DRAINED AT A MINIMUM OF ONE TIME EACH THREE DAYS, THE GROWTH OF BACTERIA CAN OCCUR. IF BACTERIA GROWTH CONTINUES, AND YOU DRINK THE WATER, ILLNESS CAN OCCUR.

(1) Do this task: Potable Water System - Drain, AMM TASK 12-14-01-616-803 .

Accomplished By		Inspected By	
M	 JCAT0001		

(2) To remove the filter canisters (if installed) from the water system in the galleys, refer to the galley manufacturers instructions.

NOTE: Make sure the top of the housing is in its position without the filter canister installed.

Accomplished By		Inspected By	
M	 JCAT0002		

(3) Disconnect the coffee maker (if installed) and any other potable water using devices from the water system in the galleys.

Accomplished By		Inspected By	
M	 JCAT0003		

FleetTail	Work Card Title	Card No.	Date 18-Apr-2011
B777 FCG	FOR REFERENCE ONLY Potable Water Supply System	38-010-00-01	Page 3 of 9

C. Disinfect the Potable Water System

- (1) To fill the potable water system approximately half full with water, do this task: Potable Water Tank - Fill, AMM TASK 12-14-01-600-811 .

Accomplished By		Inspected By	
M	 JCAT0004		

- (2) Make a disinfectant as follows:

NOTE: The disinfectant mixtures will provide the full system with a solution of **chlorine dioxide** at 100 parts per million.

- (a) Recommended disinfectant

- 1) Chlorine dioxide (stabilized 2%) G00022 Purogene or Oxine compound and citric acid (crystal, powder or liquid) B00637 acid .

WARNING: DO NOT BREATHE CHLORINE DIOXIDE GAS. PUT ON A RESPIRATOR, AND GOGGLES. WHEN THE TWO CHEMICALS MIX, THEY MAKE CHLORINE DIOXIDE GAS. CHLORINE DIOXIDE GAS CAN CAUSE INJURIES TO PERSONNEL IF THEY BREATHE IT.

- (b) **Mix the following amounts of chlorine dioxide G00022 Purogene or Oxine compound with citric B00637 acid** in a clean plastic container: 25.6 fl-oz (0.8 l) chlorine dioxide, 3.20 fl-oz (0.09 l) citric acid (crystal or powder) or 5.12 fl-oz (0.15 l) citric acid 50% (liquid).

- (c) Use a clean instrument to mix the solution fully.

- (d) Stop for 5 minutes.

- (e) Add water to make approximately 5 gallons (19 liters) of solution.

Accomplished By		Inspected By	
M	 JCAT0005		

- (3) Open this access panel:

FleetTail	Work Card Title	Card No.	Date 18-Apr-2011
B777 FCG	FOR REFERENCE ONLY Potable Water Supply System	38-010-00-01	Page 4 of 9

Number Name/Location

121AL Forward Potable Water Service Door

Accomplished By		Inspected By	
M	 JCAT0006		

- (4) Add the disinfectant to the water service potable water servicing equipment STD-1141 for the potable water system.

NOTE: The filter cartridge must not be installed in the water service equipment.

Accomplished By		Inspected By	
M	 JCAT0007		

- (5) Add the disinfectant to the potable water system through the water fill connection at the water service panel.

Accomplished By		Inspected By	
M	 JCAT0008		

- (6) Add potable water to the water tank until the tank is full. Do this task:
Potable Water Tank - Fill, AMM TASK 12-14-01-600-811

Accomplished By		Inspected By	
M	 JCAT0009		

FleetTail	Work Card Title	Card No.	Date
B777 FCG	FOR REFERENCE ONLY Potable Water Supply System	38-010-00-01	18-Apr-2011
			Page 5 of 9

(7) Do this task: Potable Water System - Pressurization, AMM TASK
38-10-00-863-801.

Accomplished By		Inspected By	
M	 JCAT0010		

(8) Open the lavatory faucets (hot and cold), galley faucet(s), and the galley water boiler/coffee maker valves (as equipped). Let the water flow for one (1) minute, then close the faucets and the valves.

NOTE: Let the water flow until the disinfectant flows from each faucet. The disinfectant may be noticeable by its slight yellow color and odor.

Accomplished By		Inspected By	
M	 JCAT0011		

(9) Flush the toilet at least twice with a 15 second delay between flushes, or until chlorinated water appears.

Accomplished By		Inspected By	
M	 JCAT0012		

(10) The Boeing Company recommends that you keep the disinfectant in the potable water system for one hour.

NOTE: The disinfectant must stay in the potable water system for one hour minimum.

Accomplished By		Inspected By	
M	 JCAT0013		

FleetTail	Work Card Title	Card No.	Date
B777 FCG	FOR REFERENCE ONLY Potable Water Supply System	38-010-00-01	18-Apr-2011 Page 6 of 9

(11) After one hour, do these steps:

- (a) Open the galley faucet and water boiler valve to let the water in the galley supply line and the water boiler drain.
- (b) Do this task: Potable Water System - Drain, AMM TASK 12-14-01-616-803
- (c) Close the galley faucet and water boiler valve

Accomplished By	Inspected By		
M	 JCAT0014		

(12) Do this task: Potable Water Tank - Fill, AMM TASK 12-14-01-600-811.

Accomplished By	Inspected By		
M	 JCAT0015		

(13) Do this task: Potable Water System - Pressurization, AMM TASK 38-10-00-863-801.

Accomplished By	Inspected By		
M	 JCAT0016		

(14) Open the lavatory and galley faucets and the galley water boiler/coffee maker valve (if equipped), until water without the disinfectant flows

FleetTail	Work Card Title	Card No.	Date
B777 FCG	FOR REFERENCE ONLY Potable Water Supply System	38-010-00-01	18-Apr-2011
			Page 7 of 9

from each. Then leave the faucets, and the water boiler valve, open an additional 15 seconds.

- (a) Close the faucets. Close the galley water boiler/coffee maker valve (s).

Accomplished By		Inspected By	
M	 JCAT0017		

- (15) Flush each toilet at least twice with a 15 second delay between flushes or until the water without the disinfectant appears.

Accomplished By		Inspected By	
M	 JCAT0018		

- (16) If you have water with bad taste, smell, or color, then do these steps.

- (a) Drain the potable water system.
- (b) Do these steps to flush the potable water system again:
- 1) Do this task: Potable Water Tank - Fill, AMM TASK 12-14-01-600-811.
 - 2) Open the lavatory and galley faucets and the galley water boiler/coffee maker valve, until water without the disinfectant flows from each. Then leave the faucets, and the water boiler valve, open an additional 1 minute.
 - a) Close the faucets. Close the galley water boiler/coffee maker valve(s).
 - 3) Flush each toilet at least twice with a 15 second delay between flushes or until the water without the disinfectant appears.

FleetTail	Work Card Title	Card No.	Date
B777 FCG	FOR REFERENCE ONLY Potable Water Supply System	38-010-00-01	18-Apr-2011
			Page 8 of 9

4) If it is necessary, do these steps again to remove all the bad taste and bad smell from the water.

Accomplished By		Inspected By	
M	 JCAT0019		

D. Put the Airplane Back to its Usual Condition

(1) Replace the galley filter canisters (if necessary).

Accomplished By		Inspected By	
M	 JCAT0020		

(2) Connect the galley coffee makers or water units that were disconnected.

Accomplished By		Inspected By	
M	 JCAT0021		

(3) Make sure that there are no leaks in any filter canisters (if installed) or galley water units.

Accomplished By		Inspected By	
M	 JCAT0022		

FleetTail	Work Card Title	Card No.	Date 18-Apr-2011
B777 FCG	FOR REFERENCE ONLY Potable Water Supply System	38-010-00-01	Page 9 of 9

(4) If there is too much carbon sediment found downstream, examine galley filter for correct operation (if installed).

Accomplished By		Inspected By	
M	 JCAT0023		

(5) Close this access panel:

Number Name/Location

121AL Forward Potable Water Service Door

Accomplished By		Inspected By	
M	 JCAT0024		