

DDG 51 FLIGHT TWO (A) CLASS AFFF SYSTEM CHECK SHEET FOR USS _____ DATE: _____

- REF: A. PMS 5551/029 BALANCE PRESSURE PROPORTIONER
 B. GSO 555
 C. NSTM 079 VOL 2
 D. NSTM 555
 E. EOSS
 F. NAVSEA 05P Message 030510ZSEP03

AFFF STATION INSPECTION			
CHECK/INSPECT COMPONENT/SUB-COMPONENT	IAW	SAT/ UNSAT	SAT/ UNSAT
COMPARTMENT / LOCATION/STATION NR		1	2
1. Inspect/test AFFF station communication.			
a. Test X50J sound powered phones. - X50J sound powered phone was inop. - X50J hand set was inop. - X50J was not labeled. - Connection box was damaged. - Hand set was broken. - Sound power connection box was missing cover.	- SHIPS DC BOOK - DC PLATES -NSTM 079 V2		
b. Test e-call. - E-call was inop. - E-call was not labeled. - Connection box was damaged.	- SHIPS DC BOOK - DC PLATES -NSTM 079 V2		
c. Test IVCS. - IVCS was inop. - Head set was broken. - E-call was not labeled.	- SHIPS DC BOOK - DC PLATES -NSTM 079 V2		
2. Test emergency lighting available and operating at each station.			
a. Relay operated lantern. - Emergency lighting was inop. - Rubber boot was removed. - Emergency light was not installed. - Emergency lighting was not adequate.	- MIP 6641/004 - M-5 - GSO-555		
b. Emergency fluorescent lighting. - Emergency lighting was inop. - Rubber boot was removed. - Emergency light was not installed. - Emergency lighting was not adequate.	- Q-2 - GSO-555		
3. Inspect last concentration analysis within PMS standards.			
- Last concentration analysis was not IAW PMS. - Last concentration was out of specs. - Last concentration was out of periodicity. - If unsat or past periodicity the ship will have to conduct a concentration analysis test prior to getting underway.	- 5551/029 36M-3R - NAVSEA 1201319Z0CT93		
4. Were valve handwheels painted the correct color code, label plate and classification plate?			
- AFFF concentrate valve handwheel was not painted striped light blue/red. - Faom Discharge Plug (AFFF) was not painted striped red/green. - AFFF solution (concentrate/salt water mix) was not painted striped red/dark green. - Firemain COV handwheel was not painted red. - COV () was missing it classification plate. - COV () was missing its label plate.	- NSTM 505 - NSTM 079 VV		
5. Inspect actuation points. (Numbered and classified).			
- Push buttons were not labeled. - Push buttons were not classified. - Push buttons were missing photoluminescent markings.	- NSTM 079 V2 - SHIPS DC BK - EOSS		
6. Inspect photoluminescent markings applied at all actuation points?			
- Photoluminescent marking was missing. - Photoluminescent marking was damaged.	- NSTM 079 V2		
7. Inspect valves. (Alignment, classification, label plate, deterioration, fasteners and function)			
- Valve was missing locking device. - Not classified IAW the ships dc book. - Valve was leaking. - Valve leaked by the seat. - Hytrol valve was painted. - Hicheck valve was painted. - Powertrol valve was painted. - Valve had ferrous fasteners. - Valve was not properly aligned. - Valve was not properly labeled according to function.	- NSTM 079 V2 - SHIPS DC BK - NSTM 555 - NSTM 505 - 5551/029 D-5 - EOSS		
8. Inspect warning sign's.			
- Hearing warning sign was not posted in AFFF pump area. - 440 volt warning sign was missing from SOPV.	- OPNAVINST 5100.19 SERIES		
9. Inspect deck drains.			
- Deck drains were not labeled. - Deck drain was not operational. - Deck drain was not classified. - Missing deck drain screws. - Missing deck drain tee wrench.	- SHIPS DC BK - NSTM 079 V2 - EOSS - VLV ALIGNMENT DIAGRAM		

AFFE STATION INSPECTION			
CHECK/INSPECT COMPONENT/SUB-COMPONENT	IAW	SAT/ UNSAT	SAT/ UNSAT
COMPARTMENT / LOCATION/STATION NR		1	2
10. Inspect tank level & indicator - Tank was less than 95 percent full / tank was not topped off. - Guard was missing - Tank level indicator was inop - Drain valve leaked - Drain valve was missing locking device - Hand wheels missing from tank level indicator.	- NSTM 079 V2 - NSTM 555 V1 - EOSS - VLV ALIGNMENT DIAGRAM - GSO 555/556		
11. Inspect gages. - Gage(s) was/were inop. - Gage(s) was/were not calibrated. - Gage(s) was/were out of calibration. - Gage(s) was/were not mounted. - Gage(s) was/were leaking.	- NAVSEAINST / METCALINST - GSO - FTMM		
12. Inspect & Test Bilge Sprinkling SOPV & Powerrol Valve. - SOPV tattle tale hole indicated leakage. - SOPV had water leaking in to the electrical box. - SOPV was not labeled according to function. - SOPV had excess wiring. - SOPV was not classified. - SOPV was missing plug in the bottom. - SOPV was missing screws in the base plate. - SOPV was leaking. - SOPV was missing 440 volts label. - SOPV box was corroded. - SOPV box had dirt and debris inside the electrical box. - Powerrol valve was inop / valve failed to lift. - Powerrol valve leaked at the tattle tale drain hole. - Powerrol valve leaked at the test fitting cap / flange joint / cap. - SOPV was not wired for relay burnout protection.	- A-3 & R-18 - SHIPS DC BK - MACALT 555-59006 - OPNAVINST 5100.19 SERIES		
13. INSPECT/TEST STATIONS ABT			
a. Inspect ABT. - ABT was not properly labeled. - ABT was damaged. - Power available light was out or inop. - ABT control switch was broken off.	- SHIPS ELEC. SIB		
b. Test ABT with system running in recirc. (Pull power from circuit breaker) - ABT failed to operate. - ABT would not switch for primary power to alternate power. - ABT would not switch from alternate power back to primary power. - Power available light was inop. - ABT test switch was broken.	- GSO 555n3		
c. Test ABT with test switch. (Insure pump is running) - ABT failed to operate. - ABT would not switch for primary power to alternate power. - ABT would not switch from alternate power back to primary power. - Power available light was inop. - ABT test switch was inop.	- Ship specific PMS		
14. Inspect and test AFFE pump. Place pump in recirc and operate pump locally. - Pump vibrated heavily. - Pump foundation required preservation. - Pump leaked AFFE from mechanical seal. - Pump coupling was loose. - Pump drive belt was loose/worn/damaged. - Pump was inop.	- M-1		
15. Inspect and test pump relief valve: > (220 to 230 BPP with POWERROL service valves). (210-230 for two speed injection pump), (210-230 with HYTROL service valves.) - Relief valve was not set IAW PMS (to high/to low). - Relief valve was inop. - Relief valve could not be adjusted. - Relief valve leaked. - Relief valve was not tagged with relief valve setting and dates.	- 5551/029 A-6R		
16. Perform concentration analysis test. (High and low demand off of each station).	5551/029 36M-3R		
a. Perform low demand test. (From a hose nozzle. Note: Ensure the correct size nozzle is used) - Ship did not have inline pressure gage. - Inline pressure gage was out of calibration. - AFFE concentration was out of PMS specs. - Quantabs were expired.	5551/029 36M-3R		
b. Perform high demand test. (From flight deck nozzles or bilge sprinkling nozzle) - AFFE concentration was out of PMS specs. - Quantabs were expired.	5551/029 36M-3R		
17. Verify proper AFFE concentrate AFFE Concentrate from BUCKEYE corporation is not permitted. Permitted list includes 3M, ANSUL, CHEMGUARD and KIDDE products.	SEA 05P Message 030510ZSEP03		

TEST SPACE AFFE SPRINKLING SYS:						
CHECK/INSPECT COMPONENT/SUB-COMPONENT	IAW	SAT/ UNSAT	SAT/ UNSAT	SAT/ UNSAT	SAT/ UNSAT	SAT/ UNSAT
COMPARTMENT / LOCATION/STATION		AUX 1	MER 1	MER 2	NR 3 GTG RM	RAST
1. Test with salt water (system in recirc) (PRE-UNDER WAY CHECK FOR INSURV) - AFFE bilge sprinkling system was not installed.	- GSO-555 - NSTM 555 - 5551/029 60M-3					N/A
a. From all push buttons/ activation locations. - SOPV failed to rotate. - Push button was inop. - SOPV was wired backward.	- 5551/029 Q-1, A-4/60M-3, A-5/60M-5, A-6					N/A

TEST SPACE AFFF SPRINKLING SYS:						
CHECK/INSPECT COMPONENT/SUB-COMPONENT	IAW	SAT/ UNSAT	SAT/ UNSAT	SAT/ UNSAT	SAT/ UNSAT	SAT/ UNSAT
COMPARTMENT / LOCATION/STATION		AUX 1	MER 1	MER 2	NR 3 GTG RM	RAST
- Push button control was not located along side Halon actuation controls.						
b. Verify s/w sprays out the nozzles. - Nozzles were clogged. - Piping was ruptured.						N/A
c. Inspect & Test Sprinkling SOPV & Powerrol Valve. - SOPV telltale hole indicated leakage. - SOPV had water leaking in to the electrical box. - SOPV was not labeled according to function. - SOPV had excess wiring. - SOPV was not classified. - SOPV was missing plug in the bottom. - SOPV was missing screws in the base plate. - SOPV was leaking. - SOPV was missing 440 volts label. - SOPV box was corroded. - SOPV box had dirt and debris inside the electrical box. - SOPV was not wired for relay burnout protection.	- A-3 & R-18 - SHIPS DC BK - MACALT 555-59006 - OPNAVINST 5100.19 SERIES					
d. Did hy-check and power check and or hytrol valves operate properly? - Hy-check failed to open/close. - Power check failed to open/close. - Hy-trol valve failed to open/close. - Valve steam failed to rise. - Valve steam indicating pin was missing. - Telltale leaked during testing.						
2. Test sprinkling coverage with foam. (Verify AFFF coverage, normally completed underway).	- GSO-555 - NSTM 555 - 5551/029 60M-3					
a. From all push buttons/ actuation locations. - SOPV failed to rotate. - SOPV was inop. - Push button was inop. - SOPV was wired backward.	5551/029 Q-1, A-4/60M-3, A-5/60M-5, A-6					
b. Inspect AFFF coverage. - _____ area had no coverage. - _____ - nozzles were clogged causing bilge coverage problems.	5551/029 Q-1, A-4/60M-3, A-5/60M-5, A-6					

TEST SPACE AFFF SPRINKLING SYS:						
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COMPARTMENT / LOCATION/STATION		FLIGHT DECK	HANGAR PORT	HANGAR STBD	FWD VERT REP	Remote Mine Hunting Sys.
1. Test with salt water (system in recirc) (PRE-UNDER WAY CHECK FOR INSURV) - AFFF bilge sprinkling system was not installed.	- GSO-555 - NSTM 555 - 5551/029 60M-3	N/A	N/A	N/A	N/A	N/A
a. From all push buttons/ activation locations. - SOPV failed to rotate. - Push button was inop. - SOPV was wired backward. - Push button control was not located along side Halon actuation controls.	- 5551/029 Q-1, A-4/60M-3, A-5/60M-5, A-6	N/A	N/A	N/A	N/A	N/A
b. Verify s/w sprays out the nozzles. - Nozzles were clogged. - Piping was ruptured.		N/A	N/A	N/A	N/A	N/A
c. Inspect & Test Sprinkling SOPV & Powerrol Valve. - SOPV telltale hole indicated leakage. - SOPV had water leaking in to the electrical box. - SOPV was not labeled according to function. - SOPV had excess wiring. - SOPV was not classified. - SOPV was missing plug in the bottom. - SOPV was missing screws in the base plate. - SOPV was leaking. - SOPV was missing 440 volts label. - SOPV box was corroded. - SOPV box had dirt and debris inside the electrical box. - SOPV was not wired for relay burnout protection.	- A-3 & R-18 - SHIPS DC BK - MACALT 555-59006 - OPNAVINST 5100.19 SERIES					
d. Did hy-check and power check and or hytrol valves operate properly? - Hy-check failed to open/close. - Power check failed to open/close. - Hy-trol valve failed to open/close. - Valve steam failed to rise. - Valve steam indicating pin was missing. - Telltale leaked during testing.						
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TEST SPACE AFFF SPRINKLING SYS:						
CHECK/INSPECT COMPONENT/SUB-COMPONENT	IAW	SAT/ UNSAT	SAT/ UNSAT	SAT/ UNSAT	SAT/ UNSAT	SAT/ UNSAT
COMPARTMENT / LOCATION/STATION		FLIGHT DECK	HANGAR PORT	HANGAR STBD	FWD VERT REP	Remote Mine Hunting Sys.
b. Inspect AFFF coverage. - _____ area had no coverage. - _____ nozzles were clogged causing bilge coverage problems.	5551/029 Q-1, A-4/60M-3, A-5/60M-5, A-6					

