DEPARTMENT OF THE NAVY

USS CARDINAL (MHC-60) FPO AE 09566-1959

25 June 2003

From:

Commanding Officer, USS CARDINAL (MHC 60)

To:

Naval Historical Center (N09BH) Washington Naval

Yard, DC 20374-5060

Subj:

USS CARDINAL (MHC 60) COMMAND HISTORY FOR CALENDAR

YEAR 2002

Ref:

(a) OPNAVINST 5750.12H

Encl:

(1) Command Composition and Organization

(2) USS CARDINAL (MHC 60) CY02 Chronological History

(3) Narrative

(4) Commanding Officer's Biography with picture

1. As per reference (a), enclosures (1) through (4) are submitted.

2. If you have any questions or concerns, address them to LTJG at Commercial: (011-973) 743-274,

DSN: 318-439-3274 or @cardinal.navy.mil.

D. E. VOTH

Copy to:

Command Historical File

USS CARDINAL (MHC 60)

Command Composition and Organization

- 1. <u>Mission:</u> Conduct Countermeasures against moored and bottom mines. Conduct independent mine warfare operations and participate in coordinated Mine Warfare operations with various Naval forces. CARDINAL's primary missions are Mine Warfare (MIW), Mobility (MOB), and Command, Control, and Communications (CCC). Secondary missions are Intelligence (INT), Fleet Support Operations (FSO), and Non-Combat Operations (NCO).
- 2. <u>Immediate Superior in Command:</u> Commander, Mine Countermeasures Division 31, Manama, Bahrain.

3. Command Organization (as of 31 Dec 2002):

- a. Commanding Officer: LCDR Daniel E. Voth, USN
- b. Executive Officer: LCDR Mark H. Jorden, USN
- c. Engineer Officer: LT USN
- d. Operations Officer: LTJG , USNR
- e. Supply Officer: LTJG USNR
- f. Damage Control Assistant: LTJG ..., USNR
- 4. Homeport: Naval Support Activity, Manama, Bahrain

5. Statistical Data:

a. Current ship's manning: 7 Officers, 49 Enlisted

Length: 188 feet Draft (Navigation): 12 feet

Beam: 36 feet Displacement: 918 tons

Speed: 10 knots Accommodations: 6 Officer

4 CPO

Draft (keel): 12 feet 51 Enlisted

6. **Propulsion:** Two Isotta Fraschini 800 HP 8 Cylinder Twin Turbo Non-Magnetic diesel engines.

Two Voith-Schneider (cycloidal) Propulsion Systems (VSP)

Auxiliary

Three Isotta Fraschini 480 HP 8 Cylinder Twin Turbo Non-Magnetic diesel engines

Sensors/Navigation Systems

One AN/SPS-64 (V)9 Surface Search Radar

One Commercial Raytheon (41-XX) Navigation Radar

One AN/SYQ-13 Integrated Navigation/Combat System

One AN/SQQ-32 (V)2 Advanced Mine Hunting Sonar Set

One AN/WQN-4A Fathometer

One AN/SQH-4A Acquisition System, Battle Space Profiler

One Expendable Bathythermograph

Mine Countermeasures Systems

One AN/SLQ-48 Mine Neutralization System

Armament:

Two MK 95 Mod 16 Twin .50 Caliber Machine Gun Mounts

Two MK 26 Mod 0 .50 Caliber Machine Gun Mounts

CARDINAL (MHC 60) CHRONOLOGY: 2002

JANUARY

01-08	Inport Bahrain: Holiday Leave and Upkeep Period				
09-13	Underway: Central Arabian Gulf for Unit Level Training				
14-29	Inport Bahrain: Upkeep				
27-29	Inport Bahrain: COMNAVSURFLANT N43 Engineering Assessment				
30-31	Underway: Forward Area Combined Degaussing Acoustic Range (FACDAR)				
FEBRUARY					
01-03	Inport Bahrain: Upkeep				
04	Underway: Forward Area Combined Degaussing Acoustic Range (FACDAR)				
05	Inport Bahrain				
06	Inport Bahrain: Mini Dyads On load				
07	Underway: FACDAR Range and Dyads Training				
08-28	Inport Bahrain: Upkeep and Training				
08-14	Engineering Training and Demonstration				
17-18	Medical Readiness Assessment				
MARCH					
01	Inport Bahrain				
02-11	Underway: Central Arabian Gulf for Exercise Mine Readiness and Effectiveness Measuring (MIREM-20)				

06	Refueling Astern					
12-24	Inport Bahrain: Upkeep					
25-28	Underway: Central Arabian Gulf for Unit Level Training					
29Mar-13Apr	Inport Bahrain: Restricted Availability Period					
APRIL						
01-12	Inport Bahrain: Restricted Availability Period					
04	Inport Bahrain: VSP Oil Change					
13	Inport Bahrain: Upkeep and Hull Cleaning					
14	Underway: Central Arabian Gulf for Unit Level Training					
15-20	Inport Bahrain: Upkeep					
21-28	Underway: Conducting Q-Route surveys in the Northern Arabian Gulf					
29-30	Inport Bahrain: Upkeep					
	MAY					
01	Inport Bahrain: Radar Navigation Training					
02-07	Inport Bahrain: Underway Demonstration Preparations					
08-09	Radar Navigation Training					
10-11	Inport Bahrain: Upkeep					
12-16	Afloat Training Group Engineering Limited Team Training					
13	Main Space Fire Doctrine Demonstration for ISIC					

17-21	Inport Bahrain: Underway Demonstration Preparations			
22-24	Afloat Training Group Engineering Casualty Control Exercises			
25-30	Inport Bahrain: Underway Demonstration Preparations			
31May-01Jun	Underway with Afloat Training Group for Engineering Casualty Control Exercises and Underway Demonstration Preps			
	JUNE			
02	Underway Demonstration: MCM Operational Area w/CNSL N43			
03-06	Underway: Underway Demonstration Corrections and Engineering Casualty Control Exercises			
07-08	Inport Bahrain: Engineering Casualty Control Exercises and Underway Demostration Preps			
09-13	Underway: Engineering Casualty Control Exercises and Underway Demonstration Preps			
14-15	Inport Bahrain: Maintenance and Upkeep			
16-22	Underway for MCM Training in Central Arabian Gulf			
23-29	Inport Bahrain: Restricted Availability Period			
23-27	Ship Board Training Team Training			
25-26	Small Arms Training			
30Jun-02Jul	Inport Bahrain: Upkeep, Training and Change of Command Preps			
JULX				
03	Change of Command: LCDR Daniel E. Voth Relieves LCDR John L. Schultz			

04-06	4 th of July Holiday Weekend				
07-08	Inport Bahrain: Upkeep				
09-13	Underway: Central Arabian Gulf for Engineering Limited Team Training				
14-16	Inport Bahrain: Upkeep				
17-18	Underway: Central Arabian Gulf Unit Level Training				
18	Underway Demonstration: MCM Operational Area with CNSL N43				
19	Inport Bahrain: Upkeep				
20-29	Underway: Northern Arabian Gulf Conducting Q-Route Surveys				
23	Underway: Refueling Astern				
26-27	Inport Kuwait: Brief Stop for Fuel				
30Jul-10Aug	Inport Bahrain: Upkeep and Training				
	AUGUST				
08	Navigation Team Training				
11-12	Underway: Central Arabian Gulf for Navigation Check Ride and Training				
13-31	Inport Bahrain: C5RA and SEMAT II				
24-25	Hull Cleaning				
SEPTEMBER					
01-30	Inport Bahrain: Intermediate Ship's Restricted Availability				
03-05	3-M Limited Team Training				
11Sep-10Nov	IT-21 Installation				

17-19	Nuclear, Biological and Chemical Training				
	OCTOBER				
01-31	Inport Bahrain: Intermediate Ship's Restricted Availability				
08	Isotta Fraschini Engine Meeting				
	NOVEMBER				
01-22	<pre>Inport Bahrain: Intermediate Ship's Restricted Availability</pre>				
03-12	Mine Neutralization Vehicle Change Out				
07-12	Underway: Central Arabian Gulf MCM Operating Area				
09-10	Industrial Hygiene Survey				
10-12	3M Limited Team Training				
17	Light Off Assessment				
20	Dock Trials				
21	Fast Cruise				
23	Underway: Central Arabian Gulf for Sea Trials				
24-30	Inport Bahrain: Upkeep and Training				
DECEMBER					
01-05	Underway: North Arabian Gulf Conducting Q-Route Surveys				
06-08	Inport Bahrain: Upkeep				
09-11	Underway: Central Arabian Gulf for Joint Training with USS DEXTROUS				
12-31	Inport Bahrain: Maintenance and Upkeep				

15	Mine Countermeasures Division 31 Chan-	ge of	Command
21	ISIC Ammunition Assessment		
23-31	First Holiday Leave Period		

USS CARDINAL (MHC-60)

Narrative

- 1. Mini Dyads: USS CARDINAL was the experimental platform in a minesweeping test using Mini Dyads. Mini Dyads are a series of cylindrical magnets streamed astern of the MCM unit designed to mimic the magnetic signature of different classes of ships dependent upon how the dyads are configured. This evolution provided future MHC's a standard operating procedure for loading, streaming and recovering the Mini Dyads magnetic sweeping gear.
- 2. MIREM-20: CARDINAL participated in Mine Readiness and Effectiveness Measuring in the Central Arabian Gulf. exercise gave Mine Countermeasures Division 31 the opportunity to combine its surface, airborne, and underwater mine countermeasures (MCM) elements to test their interoperability within a realistic mine warfare environment. USS RAVEN (MHC 61) acted as the mine warfare command ship. USS DEXTROUS (MCM 13), USS ARDENT (MCM 12), and USS CARDINAL (MHC 60) composed the surface MCM element. A squadron of MH-53 mine warfare helicopters provided the airborne MCM element. The underwater MCM element was provided by Explosive Ordinance Disposal (EOD) units embarked onboard USNS CATAWBA. The exercise involved hunting, sweeping, and neutralization of exercise mines in the Central Arabian Gulf MCM Operating Area. The exercise was highly successful, providing invaluable training to the crew of USS CARDINAL while proving her ability to perform in a mine threat environment.
- 3. Underway Demonstration: During CARDINAL's Underway Demonstration (UD), COMNAVSURFLANT N43 inspection team witnessed multiple series of engineering evolutions and drill sets. CARDINAL passed UD with an above average score overcoming serious material issues as well as a high operational tempo for the 5th FLEET AOR in preparation for UD.

- 4. Intermediate Ship's Restricted Availability (ISRA): CARDINAL successfully completed her ISRA on time, due to thorough and complete schedule planning. The ISRA consisted of general repairs and alterations to the ship. Preventive maintenance, replacement of lagging and upgrades to equipment including an IT-21 installation were completed throughout the ship. Preservative maintenance, such as repairing glass reinforced plastic and painting, was done as well. The Intermediate Ship's Restricted Availability was very successful in preparing CARDINAL for her operational commitments.
- 5. Light Off Assessment (LOA): MCMDIV31 assessed CARDINAL's LOA after completing the ISRA period. The commodore witnessed a near perfect Main Space Fire Drill for ISIC approval who in turn determined CARDINAL fit to sail.
- 6. During Calendar Year 2002, CARDINAL was awarded the Armed Forces Expeditionary Medal, Navy Unit Commendation, Sea Service Deployment and Overseas Service Ribbons.