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DEPARTMENT OF THE NAVY
USS WORDEN (CG-18)
FPO AP 96683-1142

5750
CG18/SO
30 OCT 91

From: Commanding Officer, USS WORDEN (CG 18)
To: Director of Naval History (OP-09BH)

Subj: USS WORDEN (CG 18) COMMAND HISTORY FOR 1990

Ref: (a) OPNAVINST 5750.12E

Encl: (1) Commanding Officer's Biography
(2) Commanding Officer's Photograph
(3) Recommendation for Navy Unit Commendation 1650 Ser CG18/XO
dtd 30 NOV 1991
(4) Press release msg dtg 151748Z MAR 91
(5) Welcome Aboard Pamphlet
(6) Photograph of the ship
(7) Press brief speech
(8) Battle "E" Award nomination
(9) Report of OPPE
(10) OPPE Success msg dtg 151950Z JUN 90
(11) OPPE Results msg dtg 160220Z JUN 90
(12) COMUSNAVCERT COC Bravo Zulu msg dtg 262059Z JUN 90
(13) MIDSHIPMEN Training msg dtg 272001Z AUG 90
(14) Outstanding CMS Inspection Results NAVGRAM 01 SEP 90

1. In accordance with reference (a), the following information is submitted:

a. Command Composition and Organization.

- Mission: Guided Missile Cruiser primarily assigned for Anti-Air (AAW) screening of fast carrier task forces, with additional substantial capability for both Anti-Surface (ASUW) and Anti-Submarine Warfare (ASW).

- Organizational structure: assigned to Commander Naval Surface Group Middle Pacific.

- Name of Commanding Officer:

21 Jul 89 - 31 Dec 90 - Captain William B. Hunt, U.S. Navy

- Home Port: Pearl Harbor, Hawaii

b. Chronology.

January

01-31 Continuation of extended Regular Overhaul (ROH) at Pearl Harbor Naval Shipyard (PHNSY).

02-04 Food Management Assist Team visit completed
03 Phase I Crew Certification completed
04 WORDEN presented a Naval Surface AAW capabilities brief to the Hawaii multi-service AIC working group which included Air Force AWACS, GCI and F-15 pilots, Marines GCI's and F/A 18 pilots, and Navy Compron representatives.
09-10 Aviation Readiness and Facilities Technical Assist visits
09 Safety standown held
11 Conference on Electromagnetic Interference vs Testing requirements on SPE-48E and SPS-49(V)5 radars
11 Degaussing Inspection completed; satisfactory
18 Phase II crew certification completed
18 Dock trials completed
18 Fast cruise completed

February

01-16 Continue ROH
01 WORDEN organized TRA/TRE for MIDPAC staff CO's and operations personnel
04-05 NAVSES assist visit
05-28 Combat Systems Ship's Qualification Test with USS HORNE (CG 30)
09-13 Harpoon Material/Safety Certification completed
12 Secretary of Defense Cheney visits USS WORDEN in PHNSY
12 ADM Jeremiah, CINCPACFLT visits WORDEN
14-15 Sea trials
15 Completed ROH
20 Ammunition onload at Naval Magazine Lualualei

March

01-27 Continue System Qualification Test with USS HORNE (CG 30); GMFCS 1, 2 and 5 qualified for SM-1 and 2 ER; GMFCS 6 SM-1 ER only due to SM-2 ER missile failure; CIWIS mounts 21 and 22 qualified. 2 maneuvering targets destroyed.
11 RADM Traister, CINCPACFLT Material Officer visits WORDEN
12-15 Conducted three cruiser operations in company with USS HORNE 20-23(CG 30) and USS CHANCELLORSVILLE (CG 62) at the Pacific Missile Range Facility
26 General Powell, Chairman Joints Chief of Staff visits WORDEN
26-30 Conducted Mobile Training Team Phase I

April

02-04 1200 PSI MTT Pre-OPPE Assist visit I completed
06-09 Dependent's cruise to Nawiliwili, Kauai, with over 650 guests (including those that flew and went only one way)
17 Commanding Officer attends Terrier Flight Analysis meeting in Corona, Ca
18-19 PQS Assist Team visit from SIMA Pearl Harbor completed
20 Cryptologic Security Material Sysytem Assist visit completed
20 NAVMASSO Assist visit completed
23-27 1200 PSI MTT Pre-OPPE Assist visit II completed
27 Shipboard Explosive Safety Inspection completed; satisfactory

27 Aviation Facilities Evaluation completed
30 FTG Training Readiness Evaluation commenced

May

01 FTG Training Readiness Evaluation completed, evaluated
Ready for Training
02-21 SIMA availability
07-11 Supply Management Assessment
07-11 FTG 14A2 ASW Attack Team Trainer - Phase I passed
08 EOD TEU ONE Orientation visit for EOD trainees
14-23 SRA 90 ship checks
15 Legal Assist visit completed in preparation for September
deployment
17 Postal Inspection completed; passed
18 Dental Readiness Evaluation, passed
19-24 CO, DCA and 3M Coordinator attended Reverse Wet in Fresno,
CA
20 Ship's Safety Day
24-25 Ammunition onload, Naval Magazine Lualualei
25-31 PACTRAMID I Midshipmen Training Cruise - five 1/C, five
3/C Midshipmen embarked
27-29 Partial NAVOSH/Industrial Hygiene Inspection completed,
passed
29-31 1200 PSI MTT Pre-OPPE assist visit III completed

June

01-16 PACTRAMID I continues
04 RADM Duffy, USNAVCENT visits WORDEN
06 Law Enforcement Assist Team visit completed
13-15 Operational Propulsion Plant Examination passed with the
highest scores in MIDPAC since WORDEN's last OPPE
18-22 FTG Training Assist visit completed
18-20 Supply Training Team Assist visit completed
18-20 Disbursing Review passed
18-30 PACTRAMID II Midshipmen Training cruise - three 1/C one
3/C embarked
19 Medical Readiness Examination passed
26 Commander, Naval Forces Central Command Change of Command
hosted on board WORDEN
26-29 NSWESS New Threat Upgrade tailored team training completed
27 ULM-4 SLQ-32(V)3 calibration and antenna radiation
patterns completed at SESEF off Diamond Head

July

01-14 PACTRAMID II continues
02-13 SIMA Pearl Harbor Availability
05-07 Harpoon Team Training (MTT)
07 Visit ship for Pearl Harbor Naval Station
11 RADM Kohn DEPCINCPACFLT visits WORDEN
12-14 Host ship for visiting Japanese Self Defense Force ship
KATORI
12-14 MIDPAC Medical Assist visit completed
16-17 Aviation Assist visit completed
16-31 Refresher Training, FTG Pearl Harbor
17 SM-2 ER missile firing completed, GMFCS 6 fully qualified

- 21 Aviation Readiness Evaluation; passed
- 26 ISIC Navigation Check Ride completed; passed

August

- 01-03 Refresher Training completed
- 02 Participated in Kope Koa USN/USAF Air Defense of Hawaii exercise wherein the Strategic Air Command provides B-1's, B-52's and tankers and the Hawaiian Air National Guard escort F-15's as the Orange Force and the Marines and Navy provide F/A-18's, A-4's and ships as Blue forces. WORDEN simultaneously controlled the Orange strike and coordinated the Blue defense as a picket ship
- 06-10 Harpoon Cruise Missile Tactical Qualification; satisfactory
- 10-14 Cryptographic (CVJB) Material Readiness Inspection completed
- 10 NAVOSH Management Evaluation; passed
- 10-28 SECAS Validation completed
- 11 Aviation Readiness Evaluation (fuels certification) completed
- 16 Family pre-deployment briefing
- 21-24 Middle East Force Exercise 4-90; PMRF, including SM-1 ER firing
- 25 Hosted HMAS SYDNEY
- 25-31 Pre-overseas Movement period
- 27-31 SIMA Pearl Harbor Availability
- 30 CO keynote speaker at NARDAC LAN conference
- 30-31 Pre-Deployment Medical Readiness Evaluation; passed

September

- 01-24 Pre-Overseas Movement period
- 01-14 SIMA Pearl Harbor Availability continues
- 04 CINCPACFLT POM briefs
- 05-06 Communications Security Assessment by NSGA; passed
- 06 Communications Security Material System Inspection; satisfactory
- 06-07 US CINCPACFLT Rules of Engagement Seminar attended by CO, XO, OPS and three ship's force AAW Coordinators (FAAWC's)
- 10 Ship's Stinger Weapons Systems brief
- 10-12 Supply Management Re-Assessment; passed
- 17-19 Middle East Force Exercise, PMRF, including SM-1 ER firing in difficult Casualty Master Mode
- 19 Ammunition on load Naval Magazine Lualualei
- 20 Safety Stand down
- 20 Command Legal Affairs inspection; passed
- 21 VADM Dorsey, COMTHIRDFLT visits WORDEN. RADM Bennett, CINCPACFLT DCOS OPS and Plans visit WORDEN
- 23 Command Religious Inspection; passed
- 25-30 Deployed, transit to Subic Bay in company with USS MARVIN SHIELDS and USNS KAWISHIWI with WORDEN as the CTU

October

- 01-09 Transit to Subic Bay in company with USS MARVIN SHIELDS and USNS KAWISHIWI
- 02 Detach USNS KAWISHIWI

02 Passing exercise (OTH-T) with USS REID and USS VANDEGRIFT
 03 Chop to COMSEVENTHFLT
 09 Middle East Force exercise; Subic Bay
 10 RADM Tobin, COMNAVSURFGRU WESTPAC visits WORDEN
 10-15 Upkeep SRF, Subic Bay, including cryptologic van installation
 16-19 Transit to Singapore with CVBG "A"
 18 Crossed the equator to purge the crew of slimy wogs
 20-22 Visit Singapore
 23-30 Transit to Sitrah, Bahrain
 28 Missile transfer with USS FLINT (six missiles) using forward outriggers and after kingpost
 30 Anchor Sitrah for turn over with USS ENGLAND
 31 Enroute AAW picket station, Central Arabian Gulf

November

01-07 Northern AAW picket, Central Arabian Gulf
 08-15 Upkeep, Mina Sulman and tender availability with USS ACADIA
 11 CO, TAO's and AAWC's attended multi-national/multi-service COMIDEASTFOR link and AAW coordination meetings and presented a point paper on warning and weapons release states
 12 RADM Sutton, LOGSUPFORMEF visits WORDEN
 14 CICO and a track supervisor attend the theater link coordination meeting in Riyadh, Saudi Arabia
 16-23 Northern AAW picket, Central Arabian Gulf
 17-21 Exercise Imminent Thunder, Marine amphibious landing 70 NM south of the Kuwait border. WORDEN controlled CAP and provided AAW and ELW surveillance
 20 RADM Fogarty, COMIDEASTFOR visits WORDEN
 24 Brief stop for fuel at Sitrah Anchorage

December

01 Enroute Dubai, U.A.E.
 01 OPS and AICS presented proposed CAP/SAM coordination tactics to an AAW working group onboard USS BUNKER HILL which included Canadian CF-18 pilots, Canadian and Royal Navy personnel, Marine aviators and GCI's and U.S. Navy staffs.
 02-06 Visit Dubai, U.A.E.
 07 Enroute Northern AAW picket Station
 08-15 Northern AAW picket, Central Arabian Gulf
 16 Enroute Abu Dhabi, U.A.E.
 17-19 Visit Abu Dhabi, U.A.E.
 20 Enroute Northern AAW picket station
 21-29 Northern AAW picket, Central Arabian Gulf
 30-31 Visit Mina Sulman, Bahrain

c. Narrative. The year began with USS WORDEN continuing it's most extensive overhaul in many years at the Pearl Harbor Naval Shipyard, Hawaii. The primary reason for the overhaul was the installation of the New Threat Upgrade (NTU) improved AAW suite. The overhaul also resulted in vast improvements throughout the ship, including engineering, damage control, messing and berthing spaces.

1. Combat Systems. WORDEN completed NTU installation in February of 1990. The Combat Information Center (CIC) was completely renovated from a modular design to an open and less restrictive operations arena. All functions of detection, tracking, display and decision are now done on the 03 level via the NTU Combat Systems. The NTU installation will enable WORDEN to successfully meet any air threat into the next century. Major components of the Combat Systems NTU consist of new and upgraded equipment that includes:

A. Search Radars: Air threat detection and tracking are provided by Radar Set AN/SPS48E and Radar Set AN/SPS49(V)5. The integrated Automatic Detection and Tracking System (AN/SYS2(V)1) correlates AN/SPS-48E and AN/SPS-49 tracks and provides CDS with a single track list from both air search radars. Surface threat detection and navigation capabilities are provided by the AN/SPS-67A via the new SPA 25G Radar Repeaters. The new URN-25 TACAN was also installed to enhance aircraft identification.

B. Combat Direction System (CDS): The CDS is the central data collection, processing and distribution center for combat systems. The CDS is divided into three major groups: data processing, data display and data communications.

(1) Data processing receives data from all sensors, maintains track of the data, evaluates the accumulated data and assigns or recommends the most suitable weapon system available to engage the threat. To facilitate the collection evaluation and decision making process CDS utilizes the AN/UYK-43(V) computer set.

(2) The data display group receives data from the data processing group and sensor systems and displays the information in CIC on the 0J194/0J535 consoles (which replaced the old AN/UYA-4 consoles). Additionally, 14 automated status boards (ASTABS) and 2 remote display monitors (RDM) were installed to enhance data display.

(3) The data communications group is the command link between CDS on WORDEN and other fleet units. These include the following:

- Link 11 - Ship-to-ship data exchange
- Link 4A - Ship-to-aircraft data exchange
- Link 14 - Ship-to non-NTDS ship data broadcast of CDS info

C. Weapons Decision System (WDS) (MK14 MOD 10): Several changes were made in upgrading WDS from MOD 9 to MOD 10. All changes were tactically significant, including:

(1) Remote Track Launch on Search (RTLOS). This feature is used in conjunction with the SGS/AC Gridlock system and facilitates Silent Sam. WORDEN can now engage target symbology from other link 11 ships without benefit of holding actual video from own ship's radars.

(2) Engageability Bypass (ENGABYPASS) allows the system to engage targets as much as 40% beyond WDS program intercept range depending on target size.

(3) Engage Preferred Track (ENGPRFTCK) used to engage high speed inbound targets when scheduler is full and immediate engagement is required.

(4) Engage next (ENGNXT) was formerly an operational intervention using track number call up. Now by hooking the target and depressing the job WDS is forced to reschedule and engage the target ahead of other threats.

(5) Stand Alone (STALO) is a two option mode. If CDS is lost, the system defaults to STALO. At this time the WDS operator must choose between WDS STALO SYSII control where DTM sets relative threat and tracks targets or STALO WDS control where the WDS operator tracks and assigns relative threat.

(6) WDS no longer accepts single source kill assessment. The MOD 9 program used to complete kill sequence by only SYR-1 data. MOD 10 now requires two source assesment, i.e., (SYR-1 WDS), (SYR-1/MK 152 computer), (SYR-1/55B operator).

D. Close in Weapons System. Upgraded installation took place.

E. Terrier Weapons System. Upgrade was in the form of changing from an analog launcher group MK76 MOD 7 to a fully digital launcher group MK 76 MOD 11.

F. Radar Environmental Simulator System (RESS). Installed during 1989, RESS provides a capability to simulate radar and environmental data for Combat System testing and training. RESS has the capability to generate 63 targets, 18 jamming platforms, chaff, sea clutter and rain clutter.

G. Communications. The suite was upgraded to include the Single Audio System increasing the reliability of WORDEN's communications capabilities.

2. Habitability. The overall habitability project proved to be quite a challenge for WORDEN crewmembers, SIMA Pearl Harbor and PHNSY. WORDEN crewmembers completely gutted, prepped, redesigned and reinstalled all berthing compartments, heads, the Wardroom and the CPO mess. Additionally, all interior decks were stripped of tile and replaced with new underlayment and finished with the new epoxy flake deck system done completely by crewmembers. PHNSY assisted in the habitability project by providing welding assists, underlayment installation expertise and by accomplishing an exceptional number of structural repairs when needed. SIMA Pearl Harbor completely ripped out and reinstalled all new equipment in the crew's galley, Wardroom pantry, CPO galley, vegetable preparation area and the mess decks. The cost of WORDEN's habitability package in materials alone exceeded \$250K.

3. Engineering. WORDEN's FY89 NTU ROH planning included a standard engineering work package. The scope of the work increased dramatically after the overhaul began. During ripout, numerous structural repairs were identified. This emergent work was added to the existing work package necessitating the rescheduling of jobs which eventually prolonged the ROH completion.

In addition to structural repairs, the engineering overhaul consisted of replacing tubes in all of 4 main propulsion boilers and the overhaul of dozens of auxiliary pumps, blowers, lube oil purifiers and electrical controllers. Hundreds of valves were rebuilt and various steam, fuel, lube oil, and salt water systems had extensive piping replacement. The engineering work package culminated with the commencement of steam testing in November.

In addition to the above mentioned work, WORDEN was also given a fac'sle to fantail sprucing up. This included sandblasting and repainting the entire hull, and renovation of numerous office and work spaces, passageways and storage areas. All interior and exterior bulkheads were stripped, sanded and painted. Several spaces were completely overhauled, including the bridge, sickbay, ship's office and officer's staterooms. A vast majority of this work was accomplished primarily by ship's force.

Originally scheduled to be completed in December 1989, the ROH continued through to the end of the year, and was completed in February 1990.

4. In April MTT visited WORDEN for a Pre-OPPE assist visit. On 06-09 April WORDEN staged a highly successful dependents cruise to Kauai. General Colin Powell, Chairman of the Joint Chiefs of Staff visited with the Officers and crew of the WORDEN on 26 March. The summer months brought continued pre-deployment inspections, training, and exercises. Chief among these were Reftra, OPPE, Aviation Readiness Evaluation, and Middle East Force Exercise.

After completing a 24 day Pre-Overseas Movement period WORDEN was ready to sail. On 25 September 1990, WORDEN deployed to the Persian Gulf. Steaming in company with USS MARVIN SHIELDS, WORDEN made port visits to Subic Bay, Republic of the Philippines, and Singapore. On the 18th of October WORDEN dipped below the equator to welcome scores of crew members into the realm of Neptunus Rex. On 30 October 1990, WORDEN received her turnover from USS ENGLAND while anchored at Sitrah, Bahrain. During the next two months WORDEN, in conjunction with USS BUNKER HILL, was designated Anti-Air Warfare Commander (AAWC) and provided the AAW coverage of the Northern Arabian Gulf needed while build up of UN forces continued on the Saudi Arabian Peninsula. WORDEN provided air control for Marine Corps, Canadian, and Navy fighter aircraft used as Combat Air Patrol (CAP) over the Arabian Gulf. Throughout OPERATION DESERT SHIELD, WORDEN was literally at the "tip of the spear" turning back over 50 potentially hostile Iraq aircraft flying anti shipping profiles against U.S. and allied shipping building up in the Southern Arabian Gulf. In addition to her AAW responsibilities, WORDEN was involved with the interdiction of fifty merchant vessels in accordance with UN security council resolutions 106 and 107. On 17-21 November 1990, WORDEN controlled CAP and provided AAW and EW surveillance for Exercise Imminent Thunder, the practice Marine amphibious landing south of the Kuwait border. RADM Fogarty, COMIDEASTFOR visited WORDEN for part of the exercise. During November - December 1990 WORDEN made port calls to Mina Sulman, Bahrain, as well as Abu Dhabi and Dubai in the United Arab Emirates.

d. Supporting Documents. Supporting documents are forwarded in enclosures (1) thru (14).

W. L. RICHARDS
By direction