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CORRESPONDENCE CLEARANCE/BRIEFING SHEET
OPNAV 5216/126 (Rev. 5-72)

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RETURN TO
OP - 431J
AFTER: EACH CLEARANCE LAST CLEARANCE SIGNATURE

ATTACHED OUTGOING CORRESPONDENCE: TYPE **ENDS** ADDRESSEE(S) **SECNAV/CNO** SERIAL **871/872** MAIL ROOM R/S NO.

SUBJECT
Survey of USS CORPORAL (SS-346)

BACKGROUND/BRIEFING (If required, list references and enclosures immediately below, in naval letter format. It is not necessary to list references and enclosures to the basic incoming and outgoing documents. Duplication of information contained in the attached incoming or outgoing correspondence, or that inserted elsewhere on this sheet, should be avoided wherever practicable.)

1. USS CORPORAL scheduled retirement date is 12 Nov 1973.
2. Subject to the provisions of Title 10, USC 7304, the President, Board of Inspection and Survey has found CORPORAL unfit for further service and has recommended that CORPORAL be stricken from the Naval Vessel Register.
3. The planned disposal of CORPORAL is sale to the government of Turkey for 178 thousand dollars under the provisions of the Foreign Military Sales Act 22, USC 2761. This transfer is in accordance with the approved Ship Transfer Plan.
4. Attached correspondence to SECNAV recommends that CORPORAL be stricken from the Naval Vessel Register on 12 November 1973 and requests authority to dispose of CORPORAL. Your chop/signature is recommended.

CONTINUED ON PAGE 2
SIGNATURE  OFFICE CODE AND/OR TITLE **OP-431J** DATE **13 Jul 1973**

OTHER This sheet is unclassified when some or all of the information hereon requires classification. **DECLASSIFIED** CLASSIFICATION OF THIS SHEET, ONLY (Stamp)

* Indicate clearance by initialing green leader, when applicable.

DECLASSIFIED





DEPARTMENT OF THE NAVY
SUB-BOARD OF INSPECTION AND SURVEY, ATLANTIC
NAVAL AMPHIBIOUS BASE
NORFOLK, VIRGINIA 23520

IN REPLY REFER TO:
4730/jbc
Serial 473
27 March 1973

ORIGINAL

[REDACTED]

From: Senior Member, Sub-Board of Inspection and Survey, Atlantic
To: President, Board of Inspection and Survey

Subj: Survey of USS CORPORAL (SS-346); report of

Ref: (a) CNO msg 141258Z OCT 72
(b) NAVSHIPSYSCOMHQ msg 212340Z DEC 72

Encl: (1) List of safety deficiencies
(2) Complete deficiency list (under separate cover)

1. In accordance with reference (a) the Sub-Board of Inspection and Survey, Atlantic conducted a survey of USS CORPORAL (SS-346) during the period 19-23 March 1973.

2. Findings. The Sub-Board finds:

a. That USS CORPORAL (SS-346) is unfit for further service because of conversion costs and the failure to meet the criteria of paragraph 1A2 of reference (a).

b. That certain materiel deficiencies exist which significantly degrade the ability of USS CORPORAL (SS-346) to carry out her assigned general mission and primary mission areas. This finding is based on the following specific items:

1G001DCU The ship is unable to dive due to No. 2 periscope being removed.

1G001ELU Battery has 16 cells jumpered and has 74.4% capacity.

1G001NVU The periscope sextant is out of commission.

1G002NVU The master, auxiliary, and magnesyn compasses all have excessive error.

IN ADDITION TO ANY SECURITY REQUIREMENTS WHICH APPLY AND MUST BE MET, THIS DOCUMENT MAY BE FURTHER DISTRIBUTED BY THE HOLDER ONLY WITH THE SPECIFIC PRIOR APPROVAL OF CNO OR PRESINSURV.

[REDACTED]

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[REDACTED]

1G0010PU The ship does not meet the NAVSHIPSINST C5510.33C criteria for submarines and the last waiver has expired.

1G0020PU The AN/WLR-1 ESM system is out of commission.

1G001WPU
and Periscopes are in a repair status.
1G002WPU

1G003WPU
thru Four bow torpedo tubes fail to accept E.C.S.
1G007WPU transmissions.

c. That certain deficiencies exist which are likely to cause serious injury to personnel or damage to important materiel. These deficiencies are listed in enclosure (1).

3. The following costs provided by reference (b) substantiate the findings:

a. Acquisition	\$4,948,329.
b. Replacement	15,000,000.
c. Inactivation	250,000.
d. Reactivation	4,000,000.
e. Estimated scrap value	70,000.

4. Materiel condition.

AUXILIARIES. In addition to the nine safety items, the following deficiencies are particularly noteworthy. Ship's force reports that the drain pump will not pump to capacity and that the trim pump will not maintain a suction on tanks in a nearly empty condition. The AN/BRA-11 cable pulleys do not turn and mast is noisy during operation, the AN/BRD-6 mast is noisy when raising, snorkel mast is noisy when raising and lowering and does not appear to have adequate grease distribution and No. 1 periscope rails are out of alignment. There

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are five watertight doors that have excessively worn hinge pins. The bow plane and rudder hydraulic oil exceeds specs on particulate. The pump room has several areas of rust and corrosion and the bilges are debris laden. Ship's force reports that safety tank emergency vent linkage has a history of repeated failure and that the 600 PSI stop check valves leak occasionally. Finally, the rudder ram is leaking salt water onto the after end of the hydraulic rams and fittings causing rust and corrosion.

DAMAGE CONTROL. In addition to the one mission degrading and seven safety items, the following deficiencies are particularly noteworthy. There are multiple deficiencies in the superstructure, including loose and deteriorated brackets, heavy rust, corrosion and deterioration on some areas of the hull, stripped and misaligned clamshell bolt holes and crimped grease lines. There is air leaking from a hole on portside No. 2D MBT. When air is cut in to the forward escape trunk, the relief lifts continuously and the submersible pump discharge hose is cracked and deteriorated.

ELECTRICAL. In addition to the one mission degrading item and the 30 safety items, the following deficiencies are particularly noteworthy. The propulsion control cubicle reverser and bus selector contacts are excessively worn; motors throughout the ship have threaded commutators, oil soaked windings, and poorly seated brushes; numerous cables and controllers are saturated with oil; #1 and 2 IMO pump controllers are deteriorated and falling apart; all four 60 HZ sets are supplied from the same source; both IMO pumps are supplied from the same source; a main motor rheostat in the starboard cubicle has a burned commutator segment, the wiring for the TP-TR circuit and the snorkel circuits has brittle and deteriorated insulation; and the F.E.R. lube oil heater breaker panel, IC switchboard, MK 7 gyro switchboard, and auxiliary power distribution panel #2-88-2 are filthy.

ENVIRONMENTAL PROTECTION. The ship does not meet the requirements for EPA of 1970 and follow-on directives in that no systems or equipments are installed to decrease or prevent the discharge of pollutants into environmental waters and atmosphere. No noise abatement procedures are established.

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HABITABILITY. In addition to the 13 safety items, the following deficiencies are particularly noteworthy. The ship does not meet the minimum environmental control criteria of OPNAVINST 9330.5A in several respects. The lock tabs on the periscope hull flanges are missing or improperly installed, and finally, the deck under the vinyl tile in the after battery is rusted and corroded.

MEDICAL. In addition to the three safety items, the following deficiency is particularly noteworthy. Oxygen bottle regulators are overdue for calibration.

MAIN PROPULSION. In addition to the four safety items, the following deficiencies are particularly noteworthy. #4 main engine, and #1 evaporator are inoperative and the ship reports #2 engine vibrates excessively at low speeds with light loads.

NAVIGATION. In addition to the two mission degrading and three safety items, the following deficiencies are particularly noteworthy. The helm angle indicators do not agree, the speed of travel of the rudder in the emergency mode of operation is slow, the bow plane controls have excessive loss motion, the EM log has not been calibrated, the ventilation to the Loran C is insufficient, the Loran A has several deficiencies, the barometer is out of commission, and a flash deperm of the ship is required.

OPERATIONS. In addition to the two mission degrading and nine safety items, the following deficiencies are particularly noteworthy. The AN/BQR-2B passive sonar has four flooded hydrophones, six pre-amplifiers have low audio output, and the compensating switches are badly worn and making poor contact. The AN/BQG-4 sonar is out of commission. There are numerous deficiencies in the AN/SPA-4 radar repeater. The AN/BIA-2 rate generator operates sporadically. The AN/BRD-6 VHF receiver section is unuseable due to a broken frequency dial. The lock on the AN/WLA-3 keyer is defective. The SS-2 radar AFC and B scope presentations are out of adjustment.

PREVENTIVE MAINTENANCE. The performance of routine maintenance appears to be both adequate and effective. There are, however six equipments or systems that are not covered by PMS, and 13 that have only preliminary coverage. Three required technical publications are not on board.



DEPARTMENT OF THE NAVY
OFFICE OF THE SECRETARY
WASHINGTON, D. C. 20350

Ser 431J/872

27 JUL 1973

THIRD ENDORSEMENT on SUBINSURVLANT rpt ser 473 of 27 March 1973

From: Secretary of the Navy
To: Chief of Naval Operations

Subj: Survey of USS CORPORAL (SS-346)

1. Returned, approved.
2. CORPORAL is unfit for further Naval service and shall be stricken from the Naval Vessel Register as of 12 November 1973.
3. Authority is granted to dispose of the CORPORAL pursuant to existing law in a manner most advantageous to the government.
4. The Chief of Naval Operations will take the necessary action incident to disposal of CORPORAL.

Jack L. Bowers
Jack L. Bowers
Assistant Secretary of the Navy
(Installations & Logistics)

Copy to:
SNDL

21A Fleet Commanders in Chief (CINCLANTFLT only)
24G Submarine Force Commanders (COMSUBLANT only)
A1 Immediate Office of the Secretary
A2A Independent Offices (NAVCOMPT, JAG, ONR, OLA only)
A4A Chief of Naval Material
A5 Bureaus
C4F30 Defense Mapping Agency (HYDROGRAPHIC CENTER D.C. only)
FF1 Naval District Commandants (COMFOUR only)
FF8 Inspection and Survey Board (PRESINSURV & SUBINSURVLANT)
FR6 Reserve Training Command
FKAlD Ordnance Systems Command Headquarters
FKAlE Ship Systems Command Headquarters
FKAlF Supply Systems Command Headquarters
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