



DEPARTMENT OF THE NAVY
NAVAL SURFACE WARFARE CENTER
CARDEROCK DIVISION

NAVAL SHIP SYSTEMS
ENGINEERING STATION
5001 S. BROAD STREET
PHILADELPHIA, PA 19112-1403

IN REPLY REFER TO

9072
Ser 669/45.D3196

MAR 16 2010

- From: Commander, Naval Surface Warfare Center, Carderock Division
Philadelphia, PA 19112-5083
- To: Commander, Naval Air Warfare Center, Aircraft Division,
Lakehurst NJ 08733, (Attn: Code 4.8.2.4, K. Beverly)
- Subj: CVN 68, CVN 78, CG 47, DDG 51, FFG 7, LPD 17, LHD 1, LHA 1, LHA 6,
LCC 19, LCS 1, LCS 2, LSD 36, LSD 41, JHSV, T-AKE, T-AKR, T-AH,
WMSL 750 CLASS SHIPS; RECOMMENDATION OF SHOCK
QUALIFICATION APPROVAL FOR THE AVIATION DATA
MANAGEMENT AND CONTROL SYSTEM (ADMACS), BLOCK 2
- Ref: (a) NAWCAD Code 4.8.2.4 (K. Beverly) Email Request for MIL-S-901D
Shock Qualification of the Aviation Data Management and Control System
(ADMACS), Block 2; of 28 Oct 09
(b) SPAWARSCEN Report # TR-09/13 "Environmental Qualification Test
Report for the Aviation Data Management and Control System (ADMACS),
Block 2" of 28 Sep 09
(c) MIL-S-901D; Military Specification, Shock Tests, H.I. (High Impact)
Shipboard Machinery, Equipment, and Systems; Requirements For
(d) DID No. DI-ENVR-80708; Data Item Description, Shock Test Report
(e) NAVSEAINST 9072.1A, Shock Hardening of Surface Ships
(f) NAWCAD Code 4.8.2.4 (K. Beverly) Phoncon ISEA Shock Test Report
Concurrence of 22 Jan 10
- Encl: (1) Shock Test Acceptance Information Sheet (Fig. 19) - Network Computer
Assembly
(2) Shock Test Acceptance Information Sheet (Fig. 19) - 10 V/m Media
Converter Assembly
(3) Shock Test Acceptance Information Sheet (Fig. 19) - FCC Dual Transceiver
Assembly
(4) Shock Test Acceptance Information Sheet (Fig. 19) - 10 V/m Dual
Transceiver Assembly
(5) Shock Test Acceptance Information Sheet (Fig. 19) - 2.2 KVA UPS
Assembly
(6) Shock Test Acceptance Information Sheet (Fig. 19) - PDA Charger Assembly
(7) Shock Test Acceptance Information Sheet (Fig. 19) - FCC PDA Cradle
Assembly
(8) Shock Test Acceptance Information Sheet (Fig. 19) - 10 V/m PDA Cradle &
Media Converter Assembly

Subj: CVN 68, CVN 78, CG 47, DDG 51, FFG 7, LPD 17, LHD 1, LHA 1, LHA 6, LCC 19, LCS 1, LCS 2, LSD 36, LSD 41, JHSV, T-AKE, T-AKR, T-AH, WMSL 750 CLASS SHIPS; RECOMMENDATION OF SHOCK QUALIFICATION APPROVAL FOR THE AVIATION DATA MANAGEMENT AND CONTROL SYSTEM (ADMACS), BLOCK 2

- (9) Shock Test Acceptance Information Sheet (Fig. 19) – Medium Touchscreen Display Assembly, Bulkhead Mounted
- (10) Shock Test Acceptance Information Sheet (Fig 19) – Large Workstation Display Assembly, Base Mounted
- (11) Shock Test Acceptance Information Sheet (Fig 19) – Large Workstation Display Assembly, Bulkhead Mounted

1. Reference (a) submitted reference (b) to the Naval Surface Warfare Center, Carderock Division (NSWCCD) Code 669 for review and requested shock qualification in accordance with reference (c) for the following equipment:

Equipment: Network Computer Assembly
Manufacturer: Stealth
Part No.: LPC-350PCI
Drawing #: 3962AS5105 (ICD), 3962AS1105 (Assy)

Equipment: Media Converter Assembly, 10 V/m
Manufacturer: Moxa
Part No.: ME51-M-ST
Drawing #: 3962AS5115 (ICD), 3962AS1115 (Assy)

Equipment: Dual Transceiver Assembly, FCC
Manufacturer: Metrobility
Part No.: 2731-15
Drawing #: 3962AS5130 (ICD), 3962AS1130 (Assy)

Equipment: Dual Transceiver Assembly, 10 V/m
Manufacturer: Metrobility
Part No.: 2731-15
Drawing #: 3962AS5135 (ICD), 3962AS1135 (Assy)

Equipment: UPS, 2.2 KVA Assembly
Manufacturer: Powerstar
Part No.: PS2200-SS-GRADE A-6MO-6PI
Drawing #: 3962AS5255 (ICD), 3962AS1255 (Assy)

Subj: CVN 68, CVN 78, CG 47, DDG 51, FFG 7, LPD 17, LHD 1, LHA 1, LHA 6,
LCC 19, LCS 1, LCS 2, LSD 36, LSD 41, JHSV, T-AKE, T-AKR, T-AH,
WMSL 750 CLASS SHIPS; RECOMMENDATION OF SHOCK
QUALIFICATION APPROVAL FOR THE AVIATION DATA
MANAGEMENT AND CONTROL SYSTEM (ADMACS), BLOCK 2

Equipment: PDA Charger Assembly
Manufacturer: Intermec
Part No.: 852-060-005
Drawing #: 3962AS5320 (ICD), 3962AS 1320 (Assy)

Equipment: PDA Cradle Assembly, FCC
Manufacturer: Intermec
Part No.: 225-683-006
Drawing #: 3962AS5330 (ICD), 3962AS1330 (Assy)

Equipment: PDA Cradle & Media Converter Assembly, 10 V/m
Manufacturer: Intermec (PDA Cradle) / Moxa (Media Converter)
Part No.: 225-683-006, ME51-M-ST
Drawing #: 3962AS5337 (ICD), 3962AS1337 (Assy)

Equipment: Medium Touchscreen Display Assembly, Blkhd Mtd
Manufacturer: Aydin (Touchscreen), Stealth (Computer), Metrobility
(Dual Transceiver)
Part No.: CFP15P2-1A1-30A, LPC-350PCI, 2731-15
Drawing #: 3962AS5400 (ICD), 3962AS1400 (Assy)

Equipment: Large Workstation Display Assembly, Base Mtd
Manufacturer: Stealth (Computer, Eizo (Monitor)
Part No.: LPC-350PCI, L788
Drawing #: 3962AS5410 (ICD), 3962AS1410 (Assy)

Equipment: Large Workstation Display Assembly, Blkhd Mtd
Manufacturer: Stealth Stealth (Computer, Eizo (Monitor)
Part No.: LPC-350PCI, L788
Drawing #: 3962AS5420 (ICD), 3962AS1420 (Assy)

2. NSWCCD Code 669 and the PARM (NAWCAD Code 4.8.2.4) have reviewed reference (b) in accordance with references (c), (d), and (e). In accordance with reference (e), and documented in reference (f), NSWCCD Code 669 and NAWCAD Code 4.8.2.4 (PARM) recommend approval of the equipment identified above in paragraph 1 for Grade A (or Grade B), Class I, Hull and Deck mounted, Type A, unrestricted orientation. Enclosures (1) through (11) provide additional information concerning this shock qualification approval.

Subj: CVN 68, CVN 78, CG 47, DDG 51, FFG 7, LPD 17, LHD 1, LHA 1, LHA 6,
LCC 19, LCS 1, LCS 2, LSD 36LSD 41, JHSV, T-AKE, T-AKR, T-AH,
WMSL 750 CLASS SHIPS; RECOMMENDATION OF SHOCK
QUALIFICATION APPROVAL FOR THE AVIATION DATA
MANAGEMENT AND CONTROL SYSTEM (ADMACS), BLOCK 2

3. NAWCAD Code 4.8.2.4 ACTION:

- a. The appropriate shock qualification note shall be added to the above drawings in accordance with paragraph 3.3.1.1 of reference (c). This note shall also state: "Any change to this drawing or lower tier drawing requires review and approval to maintain shock qualification."
- b. In accordance with enclosures (3) and (4) of reference (e), the PARM or individual having signature authority shall issue a letter documenting the Navy's acceptance or rejection for shock qualification to the contractor or agency that submitted the shock qualification approval request.
- c. The PARM or individual having signature authority is responsible for the entry of the principal units into Navy Shock Data Base (NSDB). NSWCCD Code 669 has initiated these entries into NSDB, and requests the PARM or individual having signature authority review and complete all omitted information in enclosures (1) through (11), sign the Shock Test Acceptance Forms and attach the completed forms to the final approval letter, per reference (e). The NSDB can be accessed through <http://nsdb.navsses.navy.mil>. Ensure that a copy of the final approval letter and completed Fig 19's is furnished to NSWCCD Code 669 for inclusion in the NSDB thereby documenting your acceptance.

4. The technical point of contact for shock related issues is NSWCCD Code 669 Rep Robert Young, (215) 897-7187 or DNS 443-7187 or email robert.a.young3@navy.mil. The NAWCAD Code 4.8.2.4 technical point of contact for equipment operation/functionality related issues is Ken Beverly, 732-323-4688.



J. Gosch
By Direction

Shock Test Acceptance Form

1. The item identified below has met the requirements of MIL-S-901, based upon:

- Shock test of the item identified below.
- Previous shock test of an item similar to the item identified below (shock test extension).
- Previous shock test of an item identical to the item identified below (shock test extension).

2a. Nomenclature: UPS Assembly
 2b. Description: 2.2 KVA UPS Assembly

3. Manufacturer / Cage Code: Powerstar MPN: PS2200-SS-
GRADE A-
6NO-6PI

4. Model No.: _____ 5. Size/Capacity: 157.45 lbs

6. Drawing No.: 3962AS5255 Revision & Date: _____

7. Military Spec.: _____

8. Ship: CVN 68, CVN 78, CG 47, DDG 51, FFG 7, LPD 17, LHD 1, LHA 1, LHA 6, LCC 19, LCS 1, LCS 2, LSD 36, LSD 41, JHSV, T-AKE, T-AKR, T-AH, WMSL 750 SHIP CLASS 9. Service: ADMACS Block 2

10. Contract No.: _____

11a. Report No., Revision & Date: SPAWARSSYSCEN-TR-09/13 dtd 28 September 2009

11b. Shock Test Facility: SPAWARSSYSCEN, Charleston

12. Previous Shock Test Approval Reference (if this form conveys shock test extension approval):

13. Test Category: Lightweight Medium Weight Heavyweight Alternate Vehicle
14. Shock Grade: A B
15. Equipment Class: I II I/II III
16. Shock Test Type: A B C
17. Mounting Location: Deck Hull Shell Frame Wetted Surface
18. Shipboard Mounting Plane represented during shock test:
- Base Front/Face Back
 Top Combination Other: _____

19. Mounting Orientation of item relative to ship's fore-and-aft axis (for medium weight and heavyweight test items only):

20. Remarks/Approval Limitations:

21. Approved:

[Signature] NSWCCD-SSES Code 669 3/15/10
 Authorized Signature: Kurt Hartsough Activity Approval Date

NAWCAD Code 4.8.2.4
 Authorized Signature: Ken Beverly Activity Approval Date