DEPARTMENT OF THE NAVY
NAVAL SURFACE WARFARE CENTER
CARDEROCK DIVISION

NAVAL SHIP SYSTEMS
ENGINEERING STATION
PHILADELPHIA, PA 19112-5083

IN REPLY REFER TO

9504
Ser 96315/052
28 APR 2000

From: Commanding Officer, Naval Ship Systems Engineering Station, Carderock Division, Naval Surface Warfare Center
To: Commander, Space and Naval Warfare Systems Command Headquarters San Diego (Code PMW-158-2)

Subj: POLICY TO INVOKE STANDARDS FOR FIBER OPTIC INSTALLATIONS

Ref: (a) Naval Training Center Mtg, Purpose: Update Fiber Optic Course, of 5-6 Apr 2000
(b) MIL-STD-2042 Parts 1 to 6, Fiber Optic Cable Topology Installation, Standard Methods For Naval Ships, of 29 Sept 97
(c) MIL-STD-2042 Part 7, Pierside Connectivity Cable Assemblies and Interconnecting Hardware, draft dated 21 May 99
(d) Navy Standard Item No. 009-73: Shipboard Electrical/Electronic/Fiber Optic Cable; remove, relocate, repair, and install; of 6 Nov 98

1. Purpose

This letter documents the necessity to invoke the standards specified herein for fiber optic installations aboard Navy ships and for the fiber optic, pierside connectivity application. Fleet personnel identified this necessity repeatedly during reference (a). Non-approved installations are causing a variety of difficulties in terms of shipboard maintenance and repair. Parts available to and training for shipboard personnel are limited to those specified by the fiber optic, shipboard installation standard. A primary request was made by the Fleet to ensure fiber optic installations are done to the appropriate standard.

2. Applicable standards to invoke

Invoke the applicable standards for applications listed below.

a. Shipboard installations (new construction). Invoke the shipboard installation standard, reference (b).

b. Pierside connectivity installations. Invoke the pierside connectivity installation standard, reference (c).

c. Shipboard installations (upgrade/backfit). Invoke the shipboard installation standard, reference (b) and the fiber optic cable installation standard item, reference (d).

3. Enhanced performance requirements

Some systems may specify installations with "enhanced" requirements. The Naval Surface Warfare Center, Dahlgren Division (NSWC DD) and Naval Surface Warfare Center Carderock Division, Ship Systems Engineering Station (NSWCCD-SSES) are responsible for evaluating component performance and the need for enhanced requirements. Input from individual systems and applications are an integral part of the requirement analysis process. NSWC DD and NSWCCD-SSES will work with individual programs to assess the adequacy of existing requirements and the need for components with enhanced requirements.

Subj: POLICY TO INVOKE STANDARDS FOR FIBER OPTIC INSTALLATIONS

4. Points of contact

Please direct questions or comments to the Naval Surface Warfare Center Carderock Division, Ship Systems Engineering Station (NSWCCD-SSES) point of contact for fiber optic component testing, E. Bluebond. He can be contacted by FAX: (215) 897-8509 or E-mail: bluebond@spawar.navy.mil. The Naval Surface Warfare Center, Dahlgren Division (NSWC DD) point of contact for fiber optic specification requirements is G. Brown. He can be contacted by telephone: (540) 653-1579, FAX: (540) 653-8673 or E-mail: browngd@nswc.navy.mil.

J. A. DOLAN
By direction

Copy to:
SPAWAR PMW-158 (CDR Ziegler)
NSWC DD B35 (G. Brown)
SPAWAR. PMW-152 (R. Evans)
SPAWAR PD 15Q2 (J. Bachrach)
SPAWAR D632 (A. Maldonado)
SPAWAR 04N-43A (D. Zsutty)
SPAWAR 051 (C. Suggs)
NAVSEA 05J2 (J. Moschopolous)
NAVSEA 53Z (H. Lewis)
DSCC-VQP (A. Eschmeyer)