



DEPARTMENT OF THE NAVY

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IN REPLY REFER TO

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From: Commander, Dahlgren Division, Naval Surface Warfare Center
To: BAE Systems Ship Programs (Mr. Tony Defilippo),
80 M Street, SE, Suite 300, Washington, DC 20003

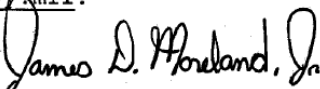
Subj: INTENT OF MIL-STD-2042B BALL BEARING TEST ON UNPOPULATED
TUBES

1. This letter clarifies the intent of the Ball Bearing (BB) Test requirement of MIL-STD-2042B part 6 on unpopulated tubes.
2. Blown Optical Fiber (BOF) cables are particularly susceptible to damage during the installation process due to the bending, pulling, and compression forces put on the cables, the impacts of which can be exacerbated further during banding. To verify that there is no damage to the cable that would cause obstructions within the unpopulated BOF tubes in the BOF cables, a BB test is performed on the unpopulated BOF tubes. This test is performed using a ball bearing with a diameter of 4.5 or 5 mm and a source of pressurized air.
3. Current stating of MIL-STD-2042 part 6, paragraph 5.3.2, subparagraph e. Phase 4b - For unused BOF tubes, perform the BOF cable BB test, Method 6H1, and BOF tube seal verification test, Method 6J1. (Mandatory)

Clarification of MIL-STD-2042B, part 6, paragraph 5.3.2, subparagraph e. Phase 4b - After final installation including final saddle and banding, and MCT packing, for unused BOF tubes, perform the BOF cable BB test, Method 6H1, and BOF tube seal verification test, Method 6J1. (Mandatory)
4. The clarification addressed in this letter will be incorporated into the next formal revision to MIL-STD-2042.

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5. If you have any questions, please contact Mr. Robert Throm at
(540)653-4203 or robert.throm@navy.mil.


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By direction