

M1490
Revision Level C002
Revision Date May 19, 2008
COMMERCIAL OFF-THE-SHELF (COTS) TECHNICAL
MANUAL

**COMMERCIAL OFF-THE-SHELF (COTS) TECHNICAL MANUALS (M1490 20080519)
FORWARD DELIVERABLES HEREIN TO:**

**NORTHROP GRUMMAN SHIPBUILDING
4101 WASHINGTON AVENUE
NEWPORT NEWS, VA 23607**

ATTN: E45 SOFTWARE COORDINATOR, BLDG. 635-6

FURNISH COMMERCIAL MANUALS AS SPECIFIED IN THE "**APPENDIX E, SUMMARY OF TECHNICAL MANUAL CONTRACT REQUIREMENTS**" DOCUMENT FOR THE HULL IN WHICH THE EQUIPMENT/SYSTEM IS PROVIDED.

COMMERCIAL MANUALS SHALL INCLUDE:

- INTRODUCTION
- PREPARATION FOR USE (IF APPLICABLE)
- INSTALLATION
- PRINCIPLES OF OPERATION
- OPERATING INSTRUCTIONS
- TROUBLESHOOTING
- MAINTENANCE (PREVENTATIVE AND CORRECTIVE) AND LUBRICATION INSTRUCTIONS
- REPROGRAMMING (IF APPLICABLE)
- PREPARATION FOR SHIPMENT
- STORAGE
- OVERHAUL INSTRUCTIONS (IF APPLICABLE)
- OUTLINE DRAWINGS SHOWING OVERALL DIMENSIONS AND WEIGHT
- MOTOR AND CONTROLLER DRAWINGS (IF APPLICABLE)
- MOTOR AND CONTROLLER SCHEMATIC WIRING DIAGRAMS (IF APPLICABLE)
- EXPLODED VIEWS
- LIST OF REPAIR PARTS
- ELECTRICAL DATA (IF APPLICABLE)
- TECHNICAL DATA THAT IS CONSIDERED ABSOLUTE (NOT JUST RECOMMENDED) IN ORDER TO PRESERVE THE MANUFACTURER'S WARRANTY, ETC.

PRELIMINARY MANUALS COVERING SUPPLIED EQUIPMENT/SYSTEM SHALL BE SUBMITTED ON WINDOWS COMPATIBLE ELECTRONIC COPY (CD-ROM OR DVD). **THE VENDOR SHALL SUPPLY THE ABOVE INFORMATION IN ADOBE SEARCHABLE PORTABLE DOCUMENT FORMAT (*.PDF), WHICH ARE NOT PASSWORD PROTECTED OR SECURITY ENABLED. IF PDF FORMAT IS NOT AVAILABLE, DEVELOP FILES USING MICROSOFT WORD. DRAWING AND GRAPHIC FILES SHALL BE IN VECTOR ELECTRONIC FORMAT: *.DWG, OR IN AN ELECTRONIC FORMAT MUTUALLY AGREED UPON BETWEEN NORTHROP GRUMMAN SHIPBUILDING AND THE VENDOR. BEFORE DEVELOPING OR SHIPPING ELECTRONIC SOURCE FILES NOT IN THE ABOVE ELECTRONIC FORMATS, CONTACT AMSEC LLC TO VERIFY COMPATIBILITY WITH THEIR ELECTRONIC PUBLISHING SYSTEM.** PLEASE PROVIDE INTERNET ADDRESSES FOR SOURCE INFORMATION REGARDING THE EQUIPMENT SUPPLIED ON THIS PURCHASE ORDER (VENDOR WEB PAGES, FAQ SHEETS, TECHNICAL SUPPORT, AND POINTS OF CONTACT). **A HARD COPY DELIVERABLE IS UNACCEPTABLE FOR THE PURPOSES OF THIS CODED NOTE.**

COMMERCIAL OFF-THE-SHELF TECHNICAL MANUALS THAT DO NOT MEET THE MINIMUM CRITERIA IN "**APPENDIX E, SUMMARY OF TECHNICAL MANUAL CONTRACT REQUIREMENTS**" SHALL REQUIRE SUPPLEMENTAL DATA TO ENSURE CUSTOMER APPROVAL. **ALL SUPPLEMENTAL DATA SHALL BE PROVIDED IN ELECTRONIC FORMAT AS LISTED ABOVE. A HARD COPY**

DELIVERABLE IS UNACCEPTABLE FOR THE PURPOSES OF THIS CODED NOTE.

NOTE:

1. MANUALS FOR APPROVAL TO RELEASE MANUFACTURE MUST BE RECEIVED AT NORTHROP GRUMMAN SHIPBUILDING (NGSB), WITHIN 20 BUSINESS DAYS OF RECEIPT OF THIS PURCHASE ORDER.
2. NORTHROP GRUMMAN SHIPBUILDING WILL SUPPLY THE MANUALS WITH COVERS, APPROVAL & PROCUREMENT RECORD PAGES AND TECHNICAL MANUAL IDENTIFICATION NUMBERS.
3. IF COMPLETE MANUALS EXIST IDENTICAL TO THOSE PREVIOUSLY APPROVED, THEY SHALL BE FURNISHED IN LIEU OF ABOVE MANUALS AND WILL RETAIN THEIR ORIGINALLY ASSIGNED NAVSEA/TMIN NUMBERS.
4. THE PRELIMINARY MANUALS MUST BE COMPLETE, INCLUDING ALL DRAWINGS AND ILLUSTRATIONS.

CALL AMSEC LLC FOR ADDITIONAL INFORMATION:

(757) 896-5393 (VOICE)

(757) 896-5237 (FAX)