

OUR RECORDS INDICATE THAT THE ITEM ORDERED BY THIS ORDER IS A MODIFICATION OF A PREVIOUSLY PROVIDED COMPONENT THAT HAS ALLOWANCE PARTS LIST (APL) AND/OR NATIONAL STOCK NUMBER SUPPORT. THE BUYER INTENDS TO REVISE THE HISTORIC LOGISTICS DATA TO SUPPORT THIS MODIFIED ITEM. THE DIFFERENCES BETWEEN THE OLD AND THE NEWLY MODIFIED ITEMS MUST BE IDENTIFIED. THIS INCLUDES:

- . REVISED DRAWINGS.
- . ANY NEW SUPPORT AND TEST EQUIPMENT REQUIRED.
- . ANY NEW PARTS THAT MAY REQUIRE SPECIAL PACKAGING, HANDLING, STOWAGE OR TRANSPORTATION NEEDS.

IF THE MODIFICATION TO THE COMPONENT RESULTS IN A CHANGE TO THE TECHNICAL MANUAL (IF PREVIOUSLY PROVIDED) OF LESS THAN 25%, AS AGREED UPON BY THE BUYER, PROVIDE A DIGITAL FILE OF THE MANUAL WHICH INCLUDES THE CHANGES. IF THE MANUAL DOES NOT EXIST IN DIGITAL FORMAT, PROVIDED CHANGED PORTIONS IN RED-LINE MARKUP OF THE ORIGINAL. DATA IS TO BE PROVIDED ON A 3-1/2-INCH HIGH-DENSITY DISK IN IBM-COMPATIBLE/MACINTOSH, SPREAD SHEET, DATA BASE, WORD PERFECT OR OTHER COMPATIBLE FORMAT. IF THE CHANGE EXCEEDS 25%, AS AGREED UPON WITH THE BUYER, PROVIDE A DATA PACKAGE AS DESCRIBED IN THE FOLLOWING PARAGRAPHS:

ENGINEERING DATA PACKAGE FOR TECHNICAL MANUALS

THE SELLER SHALL PREPARE AND SUBMIT ENGINEERING DATA PACKAGES RELATING TO THE EQUIPMENT/COMPONENTS PROVIDED TO THE PROCURING ACTIVITY. THIS DATA PACKAGE SHALL BE A COMPILATION OF INFORMATION RELATED TO THE PARTICULAR EQUIPMENT COVERED BY THE PURCHASE ORDER. THESE PACKAGES SHALL BE COMPLETE ENOUGH TO ALLOW THE PROCURING ACTIVITY TO WRITE AN ACCURATE AND THOROUGH ELECTRONIC TECHNICAL MANUAL. THE SELLER SHALL CONCUR WITH THE CONTENT OF THE MANUAL FOR COMPLETE-

NESS AND ACCURACY, AND PERFORM VALIDATION TO AVOID NEGATING THE SELLER'S WARRANTY ON EQUIPMENT OR COMPONENT(S) (MIL-M-85337A). THE SELLER SHALL PROVIDE THE FOLLOWING DATA, AS APPLICABLE, FOR THE EQUIPMENT. TECHNICAL REQUIREMENTS FOR THIS DATA ARE AS SPECIFIED IN MIL-M-15071H. IF THE DATA IS PROVIDED TO SATISFY ANOTHER REQUIREMENT OF THIS ORDER, IT NEED NOT BE RE-SUBMITTED TO SATISFY THIS REQUIREMENT.

. MANUFACTURER'S MODEL AND SERIAL NUMBER OF THE EQUIPMENT.

. MANUFACTURER'S RECOMMENDED DISASSEMBLY/ ASSEMBLY SEQUENCES KEYED TO PART NUMBERS AND NAMES OF PARTS ON MANUFACTURER'S DRAWINGS.

. MANUFACTURER'S RECOMMENDED NORMAL AND EMERGENCY OPERATING INSTRUCTIONS.

. UNIQUE SAFETY PRECAUTIONS NECESSARY FOR THE PROTECTION OF THE EQUIPMENT AND THE PERSONNEL INSTALLING, OPERATING, AND MAINTAINING IT.

. MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION, TESTING, OVERHAUL, AND REPAIR INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

- CRATED AND UNCRATED DIMENSIONS, WEIGHTS, VOLUMES.
- LIFTING POINTS.
- SPECIAL SUPPORT POWER REQUIREMENTS.
- CRITICAL CLEARANCES.
- CRITICAL DIMENSIONS.
- CRITICAL TOLERANCES.
- INSULATION RESISTANCE VALUE.
- ALIGNMENTS AND ADJUSTMENTS THAT MUST BE OBSERVED.

- PERFORMANCE CURVES.
- SPECIAL ENVIRONMENTAL REQUIREMENTS SUCH AS TEMPERATURE AND HUMIDITY.
- LIST OF SPECIAL TOOLS AND SUPPORT EQUIPMENT REQUIRED.
- SPECIAL STORAGE REQUIREMENTS SPECIFIED.
- MANUFACTURER'S RECOMMENDED LUBRICANTS INCLUDING INDUSTRY STANDARD ALTERNATIVES.
- MANUFACTURER'S PREVENTIVE MAINTENANCE REQUIREMENTS AND RECOMMENDED PERIODICITIES WITH EMPHASIS ON THOSE SERVICE PROCEDURES AND FREQUENCIES THAT ARE CONSIDERED ABSOLUTE (NOT JUST RECOMMENDED).
- MANUFACTURER'S STANDARD RECOMMENDED TROUBLESHOOTING PROCEDURES, INCLUDING FAULT LOGIC DIAGRAMS AS APPLICABLE.
- MANUFACTURER'S DETAILED PARTS LISTS INCLUDING PART NUMBERS, MODEL NUMBER, QUANTITY PER ASSEMBLY AND SOURCE DETAIL DRAWING NUMBERS. MANUFACTURER'S FEDERAL SUPPLY CODE NUMBERS AS LISTED IN CATALOGING HANDBOOKS H4-1 AND H4-2, IF NOT PROVIDED ON MANUFACTURER'S OUTLINE, ASSEMBLY, AND DETAIL DRAWINGS FURNISHED FOR THIS PURCHASE ORDER.
- MANUFACTURER'S TEST PROCEDURE.
- . FUNCTIONAL CHARACTERISTICS, RATED OUTPUTS, AND CAPABILITIES/LIMITATIONS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
 - POWER (KW OR HP).
 - PRESSURES.
 - RATING.
 - WATTAGE, VOLTAGE (SINGLE-PHASE,

3-PHASE, OR DC, FREQUENCY AND
AMPERAGE).

- GALLONS.
- BTU'S.
- SPEEDS.
- FLOW RATES.
- LEAKAGE RATES.

. PROVIDE THIS DATA IF AVAILABLE (DO NOT
DEVELOP):

- MTBF (MEAN-TIME-BETWEEN-FAILURE).
INCLUDE THE SOURCE, I.E., PREDICTION OR
ACTUAL USAGE.
- MTTR (MEAN-TIME-TO-REPAIR). INCLUDE THE
SOURCE, I.E., PREDICTION OR ACTUAL
USAGE.

SUBMITTAL SHALL BE BY LETTER AND ELECTRIC
BOAT CORPORATION FORM 84-01-2974 VENDOR PRO-
CEDURE APPROVAL REQUEST (VPAR). THE LETTER
AND THE BUYER'S FORM SHALL
CLEARLY IDENTIFY THE PURCHASE ORDER NUMBER,
PURCHASE ORDER ITEM NUMBER AND THE BUYER'S
PART NUMBER (AS/IF PROVIDED ON PURCHASE
ORDER) FOR WHICH THE DATA IS SUBMITTED.

FOR PURCHASE ORDERS THAT ORIGINATE FROM NORTHROP
GRUMMAN NEWPORT NEWS SHIPBUILDING, 4101 WASHINGTON AVE,
NEWPORT NEWS, VA. 23607, YOU ARE REQUESTED TO FORWARD
ALL UNAPPROVED SOFTWARE DELIVERABLES IDENTIFIED HEREIN
AS FOLLOWS:

PURCHASE ORDERS WHOSE LINE ITEM "MATERIAL GROUP" IS
IDENTIFIED AS CM-I, CM-III, CM(-), CM-A OR CM-FAC

DEPARTMENT E89, BLDG 600/1
ATTN: SOFTWARE COORDINATOR

PURCHASE ORDERS WHOSE LINE ITEM "MATERIAL GROUP" IS
IDENTIFIED OTHER THAN CITED ABOVE:

DEPARTMENT E45 (VCS), BLDG 600/2
ATTN" SOFTWARE COORDINATOR

SOFTWARE DELIVERABLES PREVIOUSLY APPROVED SHALL BE
PROVIDED AS PART OF THE HARDWARE DELIVERABLES.