

THIS PART REQUIRES HULL PENETRATION UNDERWATER EXPLOSION (UNDEX) SHOCK QUALIFICATION IN ACCORDANCE WITH PPD 802-8484309, UNLESS THE ITEM HAS ALREADY BEEN QUALIFIED FOR OR CLASS SUBMARINES VIA STANDARD CLAUSE 09-X WITHIN THE PART DESCRIPTION FOR THIS ITEM.

SHOCK TESTING:

IF HULL PENETRATION UNDEX SHOCK TESTING IS REQUIRED, A SEPARATE TEST ITEM WILL BE MANUFACTURED FOR SHOCK TEST PURPOSES ONLY, AND THE TESTED ITEM SHALL BE PERMANENTLY IDENTIFIED SO AS TO NOT BE INSTALLED IN THE SHIP. THE BUYER IS RESPONSIBLE FOR SHOCK TESTING HULL PENETRATION UNDEX ITEMS, AND SUPPLIER INVOLVEMENT SHALL TYPICALLY BE LIMITED TO SHIPPING, POST-TEST INSPECTION AND FUNCTIONAL TESTING, AS APPLICABLE.

FOR ITEMS TO BE QUALIFIED FOR SHOCK VIA SHOCK TESTING, SHOCK DESIGN VALUES AND ASSUMPTIONS (E.G., SHOCK DESIGN ACCELERATIONS, CAPACITIES, FACTORS OF SAFETY, STATIC/DYNAMIC ANALYSIS METHODS, ETC.) SHALL BE PROVIDED BY THE SUPPLIER AS A DELIVERABLE TO THE BUYER, FOR ALL ITEMS WITH SHOCK QUALIFICATION REQUIREMENTS, AS PART OF NORMAL AND UP FRONT DESIGN DISCLOSURE IN ADVANCE OF FINAL DESIGN, MANUFACTURE, OR SUPPLYING THE ITEM, AS APPLICABLE (UNLESS SHOCK DESIGN VALUES HAVE ALREADY BEEN PROVIDED BY THE BUYER).

IF SHOCK DESIGN GUIDANCE IS REQUIRED BY THE SUPPLIER, THE SUPPLIER SHALL SUBMIT A VENDOR INFORMATION REQUEST (VIR) TO REQUEST THIS INFORMATION, WHICH WILL BE PROVIDED STRICTLY FOR GUIDANCE ONLY. FOR ITEMS TO BE QUALIFIED FOR SHOCK VIA SHOCK TESTING WHICH DO NOT HAVE KNOWN SHOCK DESIGN VALUES, THIS SHOULD BE IDENTIFIED TO THE BUYER AS PART OF THE DESIGN DISCLOSURE INFORMATION. REGARDLESS OF SHOCK DESIGN VALUES USED (OR KNOWN OR UNKNOWN), THE SUPPLIER IS RESPONSIBLE FOR PROVIDING ITEMS WHICH SATISFY ALL SHOCK QUALIFICATION REQUIREMENTS (FOR TESTING, EXTENSION, OR ANALYSIS, AS APPLICABLE).

SHOCK EXTENSIONS:

ITEMS IDENTICAL OR SIMILAR TO ITEMS WHICH HAVE BEEN PREVIOUSLY SHOCK TESTED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS, OR IN ACCORDANCE WITH THE REQUIREMENTS OF PPD 802-6335716, PPD 802-6337445, PPD 802-7094318, OR OHIO CLASS SHIPBUILDING SPECIFICATION SECTION 9400-1 MAY BE ACCEPTED WITHOUT FURTHER SHOCK TESTING, BUT REVIEW AND APPROVAL BY A DESIGNATED APPROVAL AUTHORITY IS REQUIRED AS PART OF THE SHOCK QUALIFICATION PROCESS.

CONSIDERATION OF IDENTICAL ITEMS SHALL ADDRESS SPECIFIC SYSTEM AND MOUNTING LOCATION INFORMATION (I.E., USAGE AND APPLICATION) IN ADDITION TO HARDWARE. PIECE TO PIECE COMPARISON WITH TECHNICAL RATIONALE FOR EXTENSION SHALL BE PROVIDED. ALL POTENTIAL SHOCK EXTENSION OPTIONS (INCLUDING ANY ASSOCIATED COST AND/OR RISK

ASSESSMENTS) SHOULD BE THOROUGHLY INVESTIGATED PRIOR TO DETERMINING WHETHER SHOCK TESTING, EXTENSION, OR ANALYSIS IS THE MOST TECHNICALLY AND COST EFFECTIVE APPROACH. FOR SUCH ITEMS, DETAILED PROOF OF PREVIOUS SHOCK TESTING, INCLUDING A SHOCK TEST REPORT AND APPROVAL DOCUMENTATION, SHALL BE SUBMITTED TO THE BUYER WITHIN 30 DAYS OF RECEIPT OF THIS ORDER FOR EVALUATION FOR SHOCK TEST EXTENSION APPLICABILITY.