

DATA ITEM DESCRIPTION			Form Approved OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.				
1. TITLE  RUDDER STOCK FORGING HISTORY		2. IDENTIFICATION NUMBER  DI-FORG-81177		
3. DESCRIPTION/PURPOSE  3.1 This forging history provides complete metallurgical data for the rudder stock(s) to assist in the structural design of rudders and their supports and to facilitate repair of the stock(s) during the life of the ship.				
4. APPROVAL DATE (YYMMDD) 910328	5. OFFICE OF PRIMARY RESPONSIBILITY (OPR) N/SEA-55W3		6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
7. APPLICATION/INTERRELATIONSHIP 7.1 This DID contains the format and content preparation instructions for the data product generated by the specific and discrete task requirement as delineated in the contract.  7.2 This DID is applicable to all metal alloy rudder stock forgings.  7.3 This DID supersedes UDI-E-23105A.				
8. APPROVAL LIMITATION		9a. APPLICABLE FORMS		9b. AMSC NUMBER N6093
10. PREPARATION INSTRUCTIONS 10.1 <u>Format</u> . The forging history shall be typewritten or computer printed on 8-1/2" X 11" white paper using contractor format. Any nonstandard abbreviation shall be defined. If necessary, one-way foldouts may be used for oversized descriptive material. All pages and attachments or enclosures shall be securely bound together.  10.2 <u>General</u> . The Rudder Stock Forging History shall document in detail the results of chemical and physical testing of the forging(s). The Rudder Stock Forging History introductory information identifying the forging manufacturer, the shipbuilding contractor, the contract number, and the ship to receive the forgings.  10.3 <u>Content</u> . The rudder stock forging history shall also include: a. The results of chemical analyses of all forging heats. b. The size of the forging(s) at the time of heat treatment. c. The heat treatment and tempering temperatures and durations. d. The results of mechanical test performed on each forging to show conformance with the applicable material specification. e. The forging history shall include any descriptive material, i.e., tables, charts, sketches, drawings, calculations, or photographs necessary to clarify or explain the text.				
11. DISTRIBUTION STATEMENT  DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.				