DATA ITEM DESCRIPTION	2. Identification	
	Agency	Number
1. Title COMPUTER PROGRAM TEST REPORT	BIW/LYS (DDG)	T20

3. Description or Purpose 3.1 Test Reports are the vehicle by which the results of a test are documented. They are used to describe, define, and evaluate discrepancies between the intended system or program design and the program capability as produced in code. The Test Report briefly describes the purpose and nature of the test. It discusses, in detail, deviations from the test specifications and/or test procedures (e.g., substitution of required equipments or patches in the program being tested, changes to support programs) required in the complete performance of the test.	4. Approval Date 8/17/01
	5. Office of Primary Responsibility BIW D-87EE
	6.
7. Application or Interrelationships 7.1 The Test Report is used to determine the degree of acceptability of the computer program software. It is used to compare the operational test results with the established requirements for a system function. It is also used to weight potential design improvements and functional trade-offs that may have been determined through the testing processes. 7.2 This data item description satisfies the requirements of Paragraph 5.8 of DOD-STD-1679A (NAVY) for a Computer Program Test Report.	8.
	9. References (Mandatory as cited in Block 10) DOD-STD-1679A (NAVY)

10. Preparation Instructions

10.1 <u>Content and Format Instructions</u> - The Computer Program Test Report shall be in accordance with the following content and format instructions.

SECTION 1 - <u>Introduction</u> This section shall briefly describe the propose and nature of the test. It also shall discuss in detail any deviations from test specifications or test procedures (e.g., substitution of required equipment or patches in the program being tested, changes to support programs) required in the complete performance of the test. Further, the impact of any deviations on the validity of the test will be explicitly stated. Corrections of errors or deficiencies in applicable test procedures should also be noted.

SECTION 2 - <u>Applicable Documents</u> This section shall list those specifications, standards, and all other documents necessary for the development of the Test Report. In addition, the document title, number exact date of issue, etc. shall be presented for each document.

SECTION 3 - <u>Test Criteria</u> This section should state the test criteria, i.e.,

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10. Preparation Instructions (Continued)

       3.1 General
       3.2 Range of data and parameter values
       3.3 Accuracy requirements
       3.4 Program/subprogram/module capabilities
       3.5 Data rates from minimum to maximum
       3.6 Duration of test in time or number of events
       3.7 Definition of error
       3.8 Definition of failure

       SECTION 4 - Test Results This section shall list the results of the test based upon the data collected during the test. For each step of a test procedure where a discrepancy occurred, the step of the discrepancy and its impact on the validity of preceding or following steps of the test procedure is also noted. Amplifying information (e.g., core dumps, record of registers, display diagrams, etc.) is included or referred to as required. Opinions of the test conductor as to the cause and/or means of correcting the discrepancy may be included. If individual trouble reports are prepared for each program discrepancy, the test report may make reference to those reports in lieu of repeating the information in the test report. Interim test reports may also be published for extended tests in which case only essential data would be duplicated in the final test report.

       SECTION 5 - Evaluation Criteria This section shall state the criteria for evaluation of each test. It shall describe the range of data and parameter values tested and identify any functional deficiencies, limitations, or constraints detected during the testing process.

       SECTION 6 - Test Evaluation This section shall include an overall analysis of the functional performance of the program tested. This analysis describes the functional capability as it was demonstrated in the test. If applicable, this section shall include an assessment of the manner in which the test environment is different from the operational environment and its effect on the functional capability. A general statement shall be made on the capability of the system, as demonstrated by the test, compared with the performance requirements contained in the specification. A statement is provided for each operational deficiency detected, the impact on system performance if the deficiency is retained, and the impact on the system design if the deficiency is corrected.

       SECTION 7 - Recommendations This section shall contain an itemization of improvements that can be realized in design or operation as determined during the test period. Accompanying each improvement shall be a discussion of the added capability it provides and the impact on the system design. If there are no improvements noted, then state: "No Comment."

       In addition, specific note shall be made of any deviations from the System Test Plan.

       APPENDIX   The following appendix may be included.

       Appendix A Glossary   Contains a list of abbreviations and/or terms with definitions used in the Report.

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