

DATA ITEM DESCRIPTION

Form Approved
OMB No. 0704-0188

2. TITLE

First Article Casting Report

1. IDENTIFICATION NUMBER

DI-MECA- 80961

3. DESCRIPTION / PURPOSE

3.1 This report provides the Government with the inspection and test results of the first article casting and sufficient details to describe the process required to make the castings to assist in preventing changes without Government approval.

4. APPROVAL DATE (YYMMDD)

900307

5. OFFICE OF PRIMARY RESPONSIBILITY (OPR)

SH/05M2

6a. DTIC APPLICABLE

6b. GIDEP APPLICABLE

7. APPLICATION / INTERRELATIONSHIP

7.1 This Data Item Description 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 first article casting tests both ferrous and nonferrous.

7.3 When so marked, the data product covered (Continued on Page 2)

8. APPROVAL LIMITATION

9a. APPLICABLE FORMS

9b. AMSC NUMBER

N4911

10. PREPARATION INSTRUCTIONS

10.1 Format The first article test report shall be prepared on standard 8-1/2 X 11 inch bond paper in contractor format. First page of the report shall include company letterhead.

10.2 Content First article casting report shall contain the following: unless otherwise specified.

- a. Contract number.
- b. Part name
- c. Casting drawing number or pattern number.
- d. Location and size of risers, chills and gates
- e. Molding process; i.e., sand, permanent mold, investment, etc.
- f. Mold materials, i.e., type of sand, binder, etc.
- g. Type of melting and refining unit
- h. Melting and degassing procedures
- i. Pouring temperature range.
- j. Actual heat treatment times and temperatures.
- k. Results of the specified first article radiographic inspections.
- l. Results of the specified first article mechanical property tests, including location of test specimens.
- m. Results of any other tests required by the applicable specification and the contract for the first article casting.

11. DISTRIBUTION STATEMENT

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

Block 7 Application and Interrelationship (Continued)

by this Data Item Description shall be considered proprietary by the Government and shall not be released to anyone outside the Government.

7.4 This DID supersedes, in part, UDI-T-23790.

Block 10 Preparation instructions (Continued)

10.3 Additional content. Sketches, drawings, and photographs shall be included as necessary to fully describe or clarify the text material. The report shall contain the signature of a responsible company officer, identification number, and date.