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Arthur D. Little Inc.
Propellant Loading System
Test Plans
WS-107A-2/

Special Report No. 101

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SECTION I

INTRODUCTION

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The subject test plans represent a compilation of Arthur D. Little, Inc., requirements for "Group I, Test Plan 5," as outlined in the Space Technology Laboratories document GM-TR-0165, 00323B, issued 19 May 1958, and revised 30 October 1958.

The test plans were originally issued 13 February 1959, as ADL Special Report 101. The present revised test plans have been brought up-to-date and expanded to include more detailed listings of equipment and instrument requirements.

The test plans contain all pertinent details required for the preparation of the tests. Specifications for the operation of the propellant loading system for OSTF are covered in ADL Special Report 86.

In addition to specific test plans, we have endeavored to cover the following: (1) Test Instrumentation, (2) System Control, (3) Simulated Missile tanks and associated hardware, (4) Communications, (5) Safety, (6) Test Schedules, and (7) ADL recommendations for Group II, Test Plan 6. In the Appendix we have presented for reference some of the details on which this report is based.

The PLS Test Plans have been designed for the Group I, Test Plan 5, to be conducted by ADL. The tests should be adequate for verification of the ADL-PLS design concept. The verification should not impose any requirements on Group II, Test Plan 6. Detailed step-by-step procedures for test, pretest, and post-test procedures have been referenced in this report. These procedures will be issued subsequently as supplements to individual test plans.

The basic propellant loading system equipment, cleaning and acceptance specifications have been covered separately by Arthur D. Little, Inc., and officially by the U. S. Army Engineer District, Los Angeles, Corps of Engineers WS-107-A2, OSTF specifications, contract number DA-04-353-ENG-6287, engineering specification number ENG-04-353-58-121, dated 15 January 1959 and 26 June 1958, respectively.