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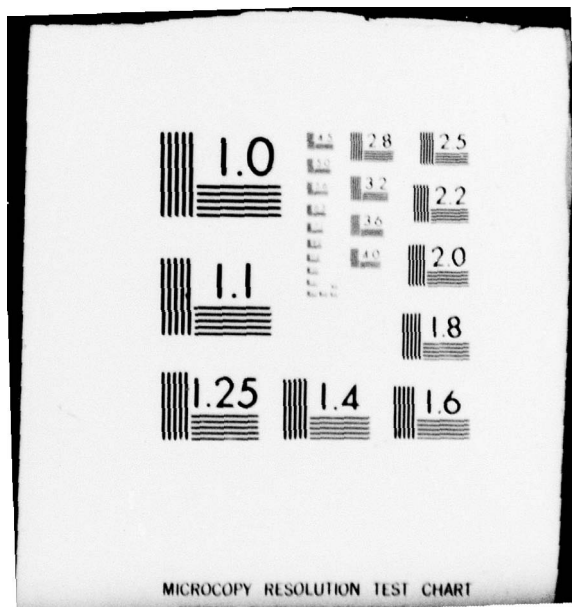
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CONFIGURATION MANAGEMENT AND SOFTWARE ACQUISITION SUPPORT

INTERIM PROGRESS REPORT

CDRL A001

18 May 1979

Contract No. DAAK40-79-D-0019

PREPARED FOR
MISSILE SYSTEMS SOFTWARE CENTER

18 May 1979

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ABSTRACT

This is a report of the progress made by the contractor at the midpoint of the period of performance of Delivery Order Number 1. The delivery order requires production of a configuration management standard and a transition and implementation standard for use at the Missile Systems Software Center, U.S. Army Missile R&D Command. The period covered by this report is 20 March 1979 through 18 May 1979.

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1. INTRODUCTION

1.1 PURPOSE

This technical report is provided in response to Contract Number DAAK40-79-D-0019, CDRL Item Number A001 to facilitate evaluation of progress on Delivery Order Number 1.

1.2 OBJECTIVES

The objectives as stated in the task description attached to Delivery Order Number 1 are as follows:

- a. Prepare a Configuration Management Standard (embedded computer resources peculiar), with delivery of a draft 90 days after contract award (due 18 June 1979).
- b. Prepare a Transition and Implementation Standard (embedded computer resources peculiar), with delivery of a draft 120 days after contract award (due 18 July 1979).

2. PROGRESS

2.1 GENERAL

SDC managers met with Mr. Don Ciliac, Chief, Missile Systems Software Center (MSSC) on 3 April 1979 to receive his direction and to identify the Contracting Officer's Technical Representative (COTR). Mr. C. Lee Stewart was identified as COTR. SDC met with Mr. Stewart on 17 April to obtain information and technical direction. At this meeting, Mr. Stewart explained that the objectives of Delivery Order Number 1 were in conflict with current Department of Defense policy. He directed SDC representatives Mr. Ken Bauer and Mr. Jerry Cross to suspend efforts towards those objectives until further direction could be provided. Further technical direction was to be given in a meeting scheduled for 23 April. Meetings were postponed by MSSC until 11 May.

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In a meeting with Mr. Stewart and Ms. Donna Brock of MSSC, and Messrs. Ken Bauer, Jerry Cross, and Gary Dickson of SDC, Ms. Brock was identified as COTR, replacing Mr. Stewart. Ms. Brock identified as tasks which might be accomplished in lieu of the objectives of Delivery Order Number 1 the following items:

- a. Identify the existing standards applicable to the missions of MSSC.
- b. Analyze the traceability of requirements through the IHAWK system documents being received by MSSC.
- c. Develop a Computer Resources Management Plan (CRMP) for IHAWK.
- d. Develop a transition standard to be used by MSSC in the transitioning of software to MSSC from developers.

Procedures were discussed for modifying the task description of Delivery Order Number 1 and the CDRL.

In a meeting with Ms. Brock on 14 May 1979, Mr. Cross proposed that the tasks described in items a through d above should be performed by SDC in that order. Estimates of the man-hours required for each of the tasks were not presented. Ms. Brock elected to have SDC produce only the last item, the transition standard. Contractual arrangements remain to be made.

2.2 CONFIGURATION MANAGEMENT STANDARD

Prior to the direction to suspend efforts, SDC performed the planning necessary to organize, man, and schedule for the production of both the Configuration Management Standard and the Transition and Implementation Standard. SDC personnel also identified and reviewed configuration management and software acquisition documentation that was available in-house. Following Mr. Stewart's direction, no other effort was expended toward producing the two standards. However, in response to Mr. Stewart's request, SDC did analyze several military standards and other directives and produced a synopsis of a proposed

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system/segment specification. Mr. Stewart used this synopsis in a meeting of the Software Documentation Panel, Joint Logistics Commanders Joint Policy Coordinating Group on Computer Resource Management, Software Workshop.

2.3 TRANSITION AND IMPLEMENTATION STANDARD

The planning that was done prior to the direction to suspend efforts included plans for the Transition and Implementation Standard. Likewise, the study of documentation included some documents related to this task. However, prior to the meeting with Ms. Brock on 14 May, no effort had been expended directly toward the production of this standard. Since that meeting, a sample transition plan and a draft Post Deployment Software Support Management Plan have been reviewed.

3. PROBLEM AREAS

3.1 TASK DEFINITION AND ASSIGNMENT

The contract states that the Government's minimum requirement in the initial delivery order shall be 1273 manhours. No tasks requiring that number of manhours have been defined and assigned to SDC to replace the original task description of Delivery Order Number 1.

3.2 TIME FOR PERFORMANCE

Although half the performance period of Delivery Order Number 1 has elapsed, only 13% of the budgeted effort has been expended. Therefore, the 60 days remaining in the period of performance will be insufficient for completion of the required effort.

4. RECOMMENDATIONS

SDC recommends that MSSC direct SDC to perform the existing Delivery Order Number 1 with the following modifications.

- a. Instead of producing a Configuration Management Standard, determine the requirements levied against MSSC by applicable directives, regulations, specifications, and standards with respect to the

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process of transitioning missile systems software from the full scale development phase into the production and deployment phase, and the continuing support of that software throughout the remainder of its life cycle. This determination shall consider all aspects of the MSSC's assigned mission. The results of this determination shall be reflected in the Transition and Implementation Standard to be produced as part of this delivery order.

- b. Make the delivery of the Transition and Implementation Standard in draft form be due 160 days after contract award (27 August 1979), instead of 120 days after contract award. This modification would constitute a no-cost extension.

SDC also recommends that the CDRL be modified by replacing item A004, Configuration Management Standard, with a technical report that shall be delivered as required by work orders issued by the Contracting Officer. This CDRL item can be referenced and a delivery date can be established for the product of each subsequent work order.

Finally, SDC recommends that MSSC begin consideration of a work order tasking SDC to establish a library for MSSC to contain all the military specifications and standards, directives and regulations, program documentation, inter-operability documents, etc., that are necessary in the total mission of MSSC. This library will begin to solve the problem of the lack of identification and disciplined use of an integrated set of consistent standards on all system developments. It will also establish a base on which to build the Program Support Library which is an essential facility for configuration control.

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