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MEMORANDUM FOR : Distribution

25X1 FROM : [redacted]
Director, Consolidated SAFE Project Office/ODP

SUBJECT : SAFE Quarterly Status Report for Third Quarter of FY-81

Attached is the SAFE Project Quarterly Status Report for the Third Quarter of FY-81. [redacted] 25X1

Attachment: As stated

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Consolidated SAFE Project

Quarterly Status Report

Third Quarter FY-81

1. ACCOMPLISHMENTS AGAINST PLAN:

As a result of Government concern with the state of software development presented at the March 1981 Preliminary Design Review, TRW conducted an internal project audit which was completed on 23 April 1981. The audit findings established that there was a 3-6 month negative slack schedule condition and that the Block 1 IOC date of December 1982 had become a high risk area. The audit also found that management of software development was inadequate.

With the involvement of the Consolidated SAFE Project Office (CSPO) corrective actions were identified and initiated. These actions include: expansion of the Process Design Document to encompass a full system software design; a rephasing of a subset of the capabilities within Block 1 to be defined as Increment 2.5; reorganization of TRW SAFE Project management including acquisition of additional key personnel; and, finalization of requirements for Block 1 IOC. In addition, an extensive revision of the Project Plan was begun with October 1981 established as a target completion date.

Areas of accomplishment during this period were:

o Conversion Requirements Review (CRR-2) -- The second of three Conversion Requirements Reviews was held during the week of 8 June 1981. CRR-2 was a review of current production requirements and operational procedures for the following DIA Functional areas: Targeting, Collection Management and Library Services. TRW also presented their initial effort on defining the operational concept of how these requirements will be accommodated in SAFE. Operational workshops were convened to identify and resolve data base design and conversion issues associated with each unique functional area. DIA intelligence analysts and representatives of Offices of Primary Interest in the files involved attended the workshops. Finalization of Conversion Requirements is scheduled for the Block 3 Initial Design Review (IDR) in February 1982. The DIA is initiating an in-house effort to convert remaining DIAOLS files to DIA-SAFE.

o Software Development -- The principal activity during the period was the formulation of changes in the software architecture needed to reflect the decision to change the process implementation approach to a more traditional transaction-

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oriented approach which is more compatible with the Burroughs host environment and makes greater use of standard Burroughs capabilities. The revised software architecture will be reflected in the Process Design Document, an updated version of the Data Base Definition Document and the Software Interface Document.

o Communications -- The installation of the coaxial cable in the CIA Headquarters Building was completed in May 1981. Electrical testing of the cable has begun. A Preliminary Design Review (PDR) for the Processor Interface Unit (PIU) was held in June 1981 at Burroughs. A potential problem with PIU throughput capacity is now being analyzed. Cryptographic Modules (CMs) and key generators delivered to TRW by NSA are now undergoing tests. The Critical Design Review (CDR) for the CM was held in June 1981 at Motorola with the CSPO, NSA and TRW as participants. A PDR for the Inter-Computer Communications (ICC) was also held in June at Burroughs.

o SAFE User Language (SUL) -- The Government continues to evaluate and comment upon the SAFE User Language Specification. The document correctly defines user interface functionality in terms of both the SUL and the SAFE terminal (Delta Data 7260T) in a manner consistent with the System Requirements Specification (SRS). The Government's current activity involves a detailed review of language semantics (commands and associated parameters) to ensure that complete traceability exists between individual language commands and specific functional requirements. In a parallel activity, the Government is also attempting to simplify the SUL by consolidating and/or eliminating commands/parameters where redundancy or similar functionality exist. This activity is in support of preparatory activities for the Block 1 PDR scheduled for November 1981.

2. ACTIVITIES PLANNED FOR THE FOURTH QUARTER 1981:

In the next quarter project management attention will focus on actions to be taken to effect schedule recovery. A major effort will be required to revise the Project Plan. A major review, a Block 3 In-Progress Review, is scheduled for July. Software development will focus heavily on the change from the process implementation approach to the transaction-oriented approach. Development of the wideband communications system will continue as an intense effort. Electrical testing of the coaxial cable system in the CIA Headquarters Building will be completed.

25X1 Dr. [redacted] DIA Vice Director for Foreign Intelligence (CIA/VP) will visit the SAFE Development Facility (DF) in Torrance, California, on 24 September 1981. The purpose of his visit will be to familiarize himself with SAFE hardware and software that is operational in the DF. He will also be apprised of the status of DIA's software development and conversion activities.



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3. RELATED ACTIVITIES:

A. Change in COTR - Mr. [redacted] SAFE Contracting Officer's Technical Representative (COTR) was appointed to the CIA's Information Systems Architect Office effective 1 June 1981. His replacement, Mr. [redacted] assumed his new duties on 6 July 1981. 25X1 25X1

B. D/RS/DIA Visit to TRW - Mr. [redacted] D/RS/DIA, visited TRW's SAFE Development Facility in April 1981. As a result of his visit procedures were implemented in DIA for controlling changes to DIAOLS in order to minimize and control impacts on DIA SAFE. In addition, CSPO award fee procedures were reevaluated but no changes were found to be needed. 25X1

4. ISSUES AND PROBLEMS:

A. Schedule Slippage - TRW has initiated several actions to attempt recovery from the 3-6 month negative slack condition. These actions are mentioned at the beginning of this report.

B. BIU Cost - The estimated cost of a Bus Interface Unit (BIU) is currently estimated at $3,000 per unit. Since every SAFE terminal requires one of these units the total cost to the program is significant. The design of this unit is being reexamined to try to reduce this cost.

5. MILESTONES:

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| First Delivery of Burrough's Hardware to CIA | 15 October 1981 |
| Delivery of Revised Project Plan | October 1981 |
| Block 3 In Progress Review-2 (IPR-2) | October 1981 |
| Block 1 Preliminary Design Review (PDR) | November 1981 |
| Block 3 Initial Design Review (IDR) | March 1982 |



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