

D1046

LPDR
Wm-10 (2)
Wm-11 (2)
Wm-16 (2)

MONTHLY PROGRESS REPORT
NUCLEAR REGULATORY COMMISSION

WM DOCKET CONTROL
CENTER

Contract Number NRC-02-26-0006
Wm-Res '87
WM Record File
D1046
SI

MAR 19 AIO:CO
WM Project 10, 11, 16
Docket No.

DATE: 15 February 1987

TO: Distribution

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FROM: Hernan Otano, NASM Program Manager

VIA: Birger Andersen, SAIC Program Manager

SUBJECT: Monthly Progress Report for Period 1 Jan.- 31 Jan. 1987

This report is submitted in accordance with paragraph F.1.1 of the subject contract.

I TECHNICAL

A. Technical Performance:

Task 1F, System Tests - Based on the System Tests reported in last month's progress report, SAIC has ordered an ISI 100MB Worm Drive which will be used to provide an initial demonstration of full text search and retrieval on an optical storage media. A meeting has also been held with the SONY Corporation in an effort to find a more logical interface to their 3GB Worm drive. SONY has recommended that we use the modified SCSI Host Adaptor manufactured by Micro Designs International. SAIC received the specifications for this board interface and it appears that it will fully meet our requirements. The adaptor has been ordered.

Task 2F, System Integration into DCC Operations - With the delivery and checkout of all the major system components an intensive software development effort was begun to develop an integrated application

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program. The program will provide DCC personnel with menu driven software to perform all the major functions of the pilot project system. To date the software is approximately 90% complete and has been used to demonstrate all major system functions.

B. Key Milestones Achieved:

The key milestone achieved during this reporting period was the demonstration of the functional capabilities of the SAIC software application program.

C. Meetings and Field Trips:

1. A briefing and demonstration of the pilot project status was made on January 13 to Mr. William McDonald and members of his staff. The demonstration of the current system capabilities included high speed document scanning, full format image display and image output to a laser printer. Also shown was the image conversion of scanned documents to ASCII text files along with the downloading capabilities of NRV/DWM 5520 wordprocessed document files into the the pilot system and insertion into the PC based full-text search database. Full text search of a sample database was demonstrated using the BlueFish PC based full text search application program.

II. COST EXPENDITURES

The most current list of hardware costs and delivery schedule is shown in Attachment A. This list can now be considered 100% with the exception of Item #14 "Additional Equipment". To date only one piece of equipment has been ordered under Item #14. This has been the SONY CD/ROM subsystem and PC Interface. The estimated cost of this piece of hardware is \$900.00. Overall cost expenditures for the reporting period are shown in Attachment B. The labor expenditures include SAIC overhead, fringe and G&A charges against direct labor. Hardware/software cost expenditures include items that were delivered during the reporting period along with a cumulative list of all hardware/software received to date. ODC's and SAIC fee has been added to reflect the total cost to the NRC.

III. PERSONNEL ASSIGNED

Personnel assigned to the project during the reporting period are shown in Attachment B. Included are both time and cost expenditures for each SAIC staff member assigned to the project.

IV. PROJECTIONS OF COSTS

Projections of costs by month to completion of the tasks contained in the current statement of work and work breakdown structure (WBS) for the period 1 July 1986 thru 31 January 1987 is presented graphically in Attachment C.

HARDWARE COSTS & DELIVERY SCHEDULE

ATTACHMENT "A"

Date: December 31, 1986

Project: NRC Pilot Project - FY 86

Project Title: "Demonstration of Laser Disc Technology for Licensing Records

ITEM HARDWARE/SOFTWARE DESCRIPTION

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	COST	PRO SUBMITTED	PO ASSIGNED	ACTUAL COST	PROMISED DELIVERY	ACTUAL DELIVERY	PURCHASE ORDER
MICROCOMPUTER							

1 IBM PC AT (Model 339)	\$5,300	7/07/86	7/10/86	\$3,865	9/15/86	9/03/86	11-870097-12
2 Hercules Monochrome Graphics Board	\$400				9/16/86	9/16/86	
3 JRAM AT3 Memory Card	\$500	9/08/86	9/18/86	\$498	10/1/86	9/19/86	11-870263-23
4 Additional Memory 128K RAM (256K Chips)	\$80	7/17/86	7/31/86	\$57	8/06/86	8/17/86	15-870270-81
MASS STORAGE DEVICE							

5 PRIMA Clusterfower (190MB + 60MB Tape Backup)	\$10,000	7/17/86	7/31/86	\$7,714	8/06/86	8/15/86	11-870110-12
6 SONY Writable Optical Disk Subsystem	\$18,000	7/11/86	7/18/86	\$14,545	8/15/86	8/05/86	11-870110-12
Writable Disk Drive WDD-3000 3 6 bytes	\$8556						
Writable Disk Controller WDC-2000	\$5989						
7 PC Interface to Optical Disk	\$1,800	7/11/86	7/18/86	\$1,626	8/15/86	8/15/86	11-870116-12
OPTICAL SCANNING SYSTEM							

8 Display Subsystem	\$4,875	9/08/86	9/09/86	\$4,875	10/30/86	10/30/86	11-870137-12
* LV 610 Monitor Controller							
* LV 630 Decompression Processor							
* LV 700 High Resolution Page Oriented Display							
9 Scanner Subsystem							
* Form Feed Scanner - RICOH IS-400	\$8,000	8/30/86	9/01/86	\$7,700	9/15/86	10/10/86	11-870131-12
* LV 810 Compression Proc./ Scanner Interface	\$2,025	9/08/86	9/09/86	\$2,025	10/30/86	10/30/86	11-870137-12
SDD Compound Document Processor	\$40,000	7/01/86	7/02/86	\$31,675	7/08/86	7/08/86	11-870092-12
DISPLAY SYSTEM							

11 Roland High Res Model # MB142 (Sanyo)	\$350	9/08/86	9/18/86	\$140	9/19/86	9/19/86	
PRINTERS							

12 Laser Printer (8 ppm) & PC Interface	\$4,500	9/08/86	9/09/86	\$4,060	10/30/86	10/30/86	11-870137-12
13 Matrix Printer	\$400						
14 ADDITIONAL HARDWARE (Task 3)	\$17,900						
Sony CD-ROM Driver & Interface		11/19/86	11/19/86	\$825			11-870182-12
SYSTEM SOFTWARE							

15 Operating System (PC DOS 3.1)	\$85			\$62	9/03/86	9/03/86	11-870097-12
16 Full Text Search Software	\$2,000						
TextBank Full text Database		7/17/86	7/21/86	\$756	7/30/86	7/31/86	11-870107-12
BlueFish Full Text Database		1/15/87	1/19/87	\$850			11-870251-12
SUPPLIES AND EXPENDIBLES							

17 Tape Cartridges & Printer Supplies	\$6,000			\$194			
	\$122,215			\$81,467			
	20%						
	\$97,772						

MONTHLY COST EXPENDITURES - 1 JANUARY thru 31 JANUARY 1987

ATTACHMENT "B"

Project: NRC Pilot Project - FY 86
 Project Title: Demonstration of Laser Disc Technology for Licensing Records
 Contract Number: NRC-02-86-006

LABOR COSTS EXPENDITURES

NAME	HOURS	COST	CUM. HOURS	CUM. COST
B. Andersen	102	\$7,714	738	\$55,811
M. Whitley	140.5	\$3,073	1009	\$22,072
S. Fullerton	0	\$0	260	\$12,344
A. Muller	0	\$0	164	\$11,829
A. Ratliff	3	\$90	182	\$5,469
R. Wells	144	\$8,914	252	\$15,599
Tech. Typist	0	\$0	12.5	\$247
	<u>389.5</u>	<u>\$19,791</u>	<u>2618</u>	<u>\$123,370</u>

HARDWARE COST EXPENDITURES

HARDWARE ITEM	MONTHLY CUMULATIVE		DELIVERY	
	COST	COST		
Palantir CDP + Software		\$31,675	7/08/86	
Group L Search Software		\$756	7/31/86	
SONY Writable Optical Disk Sys.		\$14,545	8/01/86	
PRIAM DataTower (16OMB + 6OMB Tape)		\$7,714	8/15/86	
Instar Optical Disc Interface		\$1,626	8/15/86	
PC DOS 3.1 & Misc. Software		\$350	8/07/86	
IBM PC AT (Model 339)		\$3,865	9/03/86	
JRAM AT3 Memory Board		\$498	9/19/86	
Sanyo Monochrome Monitor		\$135	9/19/86	
RICOH IS-400 Scanner		\$7,700	10/10/86	
LaserData Display Subsystem		\$4,875	10/30/86	
LaserData Comp. Proc./Scan. Interface		\$2,025	10/30/86	
RICOH Laser Printer		\$4,060	10/30/86	
	\$0	\$79,824		\$79,824
				\$203,194
			Misc. ODC's	\$3,366
NASM Overhead and Support Services	\$76,099			\$206,560
SAIC Technical Support SubContract	\$273,884		SAIC Fee @ 10%	\$20,656
Total NRC Contract to Smithsonian/NASM	\$349,983		Total Cumulative Cost	\$227,216
Percent of Total Funds Allotted		65%		
Percent of SAIC Technical Support Subcontract		83%		

PROJECTED VS ACTUAL COST CURVE

Period 1 Jul. - 30 Jan. 1987

