

D-1046

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

MONTHLY PROGRESS REPORT
NUCLEAR REGULATORY COMMISSION

Contract Number NRC-02

WM-RES
WM Record File
D1046
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WM Project 10, 11, 16
Docket No. _____
X PDR ✓
X LPDR ✓ (B, N, S)

DATE: FEB 12 P3.58
15 January 1987

TO: Distribution

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(Return to WM, 623-SS)
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FROM: Hernan Otano, NASM Program Manager

VIA: Birger Andersen, SAIC Program Manager

SUBJECT: Monthly Progress Report for Period 1 Dec.- 31 Dec. 1986

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

I TECHNICAL

A. Technical Performance:

Task 1F, System Tests - SAIC has completed tests on the most current InStar interface software to the SONY optical WORM disk drive and controller. The results of these tests indicate that the functional capabilities of the software will not meet the NRC Pilot Project requirements. The SONY Worm drive can be formatted and data can be transferred or copied to the drive. However, only one file can be opened and accessed at a time. This precludes the disk from accessing a complete database using the BlueFish full text search and retrieval applications program. In the interim we will be using the smaller ISI 100mb Worm drive to demonstrate the full capabilities of optical storage. SAIC will also be exploring other sources for a more logical interface to the SONY Worm drive.

Task 2B, Training and Assistance to NRC Personnel - With all major equipment now installed at the NRC/DCC, SAIC is providing a continuing training program for designated personnel along with

assistance in the integration of SAIC developed software into the operating environment of the DCC.

Task 2F System Integration - As part of the system integration process SAIC has completed software development which has provided the the first level of user friendly interface to all of the system hardware components and the ability to perform all major system functions.

B. Key Milestones Achieved:

The key milestone achieved during this reporting period was the completion of the initial user interface software and the initiation of NRC/DWM personnel training.

C. Meetings and Field Trips:

1. Project staff personnel from NRC, NASM, and SAIC attended a local conference and exhibit on optical and CD-ROM mass storage and information retrieval. No formal project meetings were held during the reporting period.

II. COST EXPENDITURES

The most current list of hardware costs and delivery schedule is shown in Attachment A. 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 and 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 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.

D1046

MONTHLY PROGRESS REPORT
NUCLEAR REGULATORY COMMISSION

Contract Number NRC-02-86-006

DATE: 15 January 1987
TO: Distribution
FROM: Hernan Otano, NASM Program Manager
VIA: Birger Andersen, SAIC Program Manager
SUBJECT: Monthly Progress Report for Period 1 Dec.- 31 Dec. 1986

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The key milestone achieved during this reporting period was the completion of the initial user interface software and the initiation of NRC/DWM personnel training.

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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

ITEM HARDWARE/SOFTWARE DESCRIPTION		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
	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	PRIAM 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 G 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
10	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			11-870137-12
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	11-870137-12
	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			
		<u>\$122,215</u>			<u>\$81,467</u>			
		20%						

MONTHLY COST EXPENDITURES - 1 DECEMBER thru 31 DECEMBER 1986

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

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NAME	HOURS	COST	CUM. HOURS	CUM. COST
B. Andersen	62	\$4,689	636	\$48,098
M. Whitley	132.5	\$2,898	868.5	\$18,998
S. Fullerton	0	\$0	260	\$12,344
A. Muller	6	\$433	164	\$11,829
A. Ratliff	7	\$210	179	\$5,379
R. Wells	84	\$5,200	108	\$6,685
Tech. Typist	0	\$0	12.5	\$247
	291.5	\$13,430	2228	\$103,579

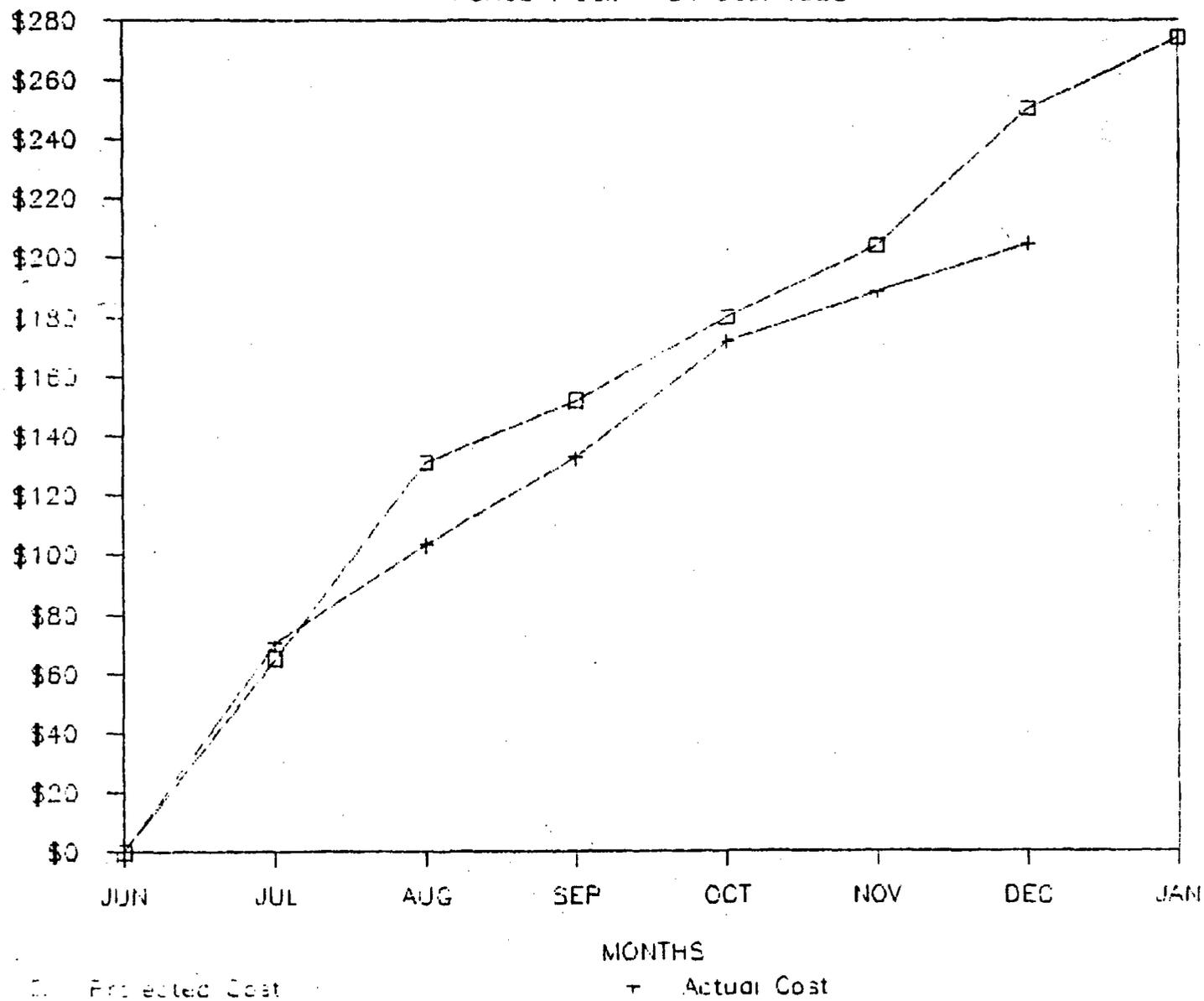
HARDWARE COST EXPENDITURES

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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 (160MB + 60MB 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
				\$183,403
			Misc. ODC s	\$2,488
NASM Overhead and Support Services	\$76,099			\$185,891
SAIC Technical Support SubContract	\$273,884		SAIC Fee @ 10%	\$18,589
Total NRC Contract to Smithsonian/NASM	\$349,983		Total Cumulative Cost	\$204,480
Percent of Total Funds Allotted		58%		
Percent of SAIC Technical Support Subcontract		75%		

PROJECTED VS ACTUAL COST CURVE

Period 1 Jul. - 31 Dec. 1986



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

=====

		PRO	PO	ACTUAL	PROMISED	ACTUAL	PURCHASE	
	COST	SUBMITTED	ASSIGNED	COST	DELIVERY	DELIVERY	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
	Hercules Monochrome Graphics Board	\$400				9/16/86	9/16/86	
	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	PRIAM ClusterTower (190MB + 60MB Tape Backup)	\$10,000	7/17/86	7/31/86	\$7,714	8/06/86	8/15/86	11-870110-12
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	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	\$8,000	8/30/86	9/01/86	\$7,700	9/15/86	10/10/86	11-870131-12
	* Form Feed Scanner - RICOH IS-400	\$2,025	9/08/86	9/09/86	\$2,025	10/30/86	10/30/86	11-870137-12
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10	SDD Compound Document Processor							
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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
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	TextBank Full Text Database		7/17/86	7/21/86	\$756	7/30/86	7/31/86	11-870107-12
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SUPPLIES AND EXPENDIBLES								

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

MONTHLY COST EXPENDITURES - 1 DECEMBER thru 31 DECEMBER 1986

ATTACHMENT "B"

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

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PROJECTED VS ACTUAL COST CURVE

Period 1 Jul. - 31 Dec. 1986

