

MAY 24 1990

MEMO/BROWNING

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MEMORANDUM FOR: Ronald L. Ballard, Chief  
Geosciences & Systems Performance Branch, HLWM

Joseph O. Bunting, Chief  
Engineering Branch, HLWM

John L. Linehan, Director  
Repository Licensing and Quality Assurance  
Project Directorate, HLWM

FROM: Robert E. Browning, Director  
Division of High-Level Waste Management, NMSS

SUBJECT: LONG RANGE PLANNING FOR DHLWM COMPUTER HARDWARE  
AND SOFTWARE NEEDS

In the division meeting of March 14, 1990, I indicated that lead for the task of evaluating the long range computer hardware and software needs for the division would be assigned to Geosciences and Systems Performance Branch. In my memorandum of March 22, 1990, I stressed that this planning needed to be done in the context of an integrated plan for the whole division.

After discussions with R. Ballard and D. Brooks, Donald Chery has been designated to lead a task group, representative of all branches and the Center to make this evaluation. The purpose of this task group is to define the functional/requirement needs for making the requisite technical evaluation of a high-level waste repository license application, functions and requirements that are different from those for the Licensing Support System (LSS). From this description of functional needs, experts in the capabilities of computer hardware and software could design an overall technical data management and modeling computer system and make hardware and software recommendations for these projected needs.

In discussions that followed with their respective supervisors, it was recommended that the following individuals be involved in this task group:

Philip Altomare  
Michael Blackford  
John Buckley  
Richard Codell  
William Ford  
Charles Interrante  
Michael Lee  
King Stablein  
Eileen Tana (LSS Coordinator)  
Rawley Johnson (CNWRA)  
John Russell (CNWRA)  
Bill Usilton (IRM/NMSS Liaison)

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MEMO/BROWNING

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It is expected that this task group will begin meeting during the week of June 4, 1990. Please plan that the staff members, identified to work on the task group, have sufficient time to contribute to the evaluation. I ask that the task group report to me by June 27, 1990. The charge number for this task is 9A1A, L20006.

If you have any questions or comments, please contact Don Chery (X23461).

*RS*

Robert E. Browning, Director  
Division of High-Level Waste Management, NMSS

- cc: Philip Altomare
- Michael Blackford
- John Buckley
- Richard Codell
- William Ford
- Charles Interrante
- Eileen Tana
- Michael Lee
- King Stablein
- Rawley Johnson (CNWRA)
- John Russell (CNWRA)
- Bill Usilton (IRM)

*Attachment: See Jacket*

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 RBallard, HLGP  
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 CNWRA

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 BJYoungblood, HLWM  
 JLinehan, HLPD  
 SCoplan, HLGP  
 LSS

NMSS r/f  
 JBunting, HLEN  
 DChery, HLGP  
 RJohnson, HLPD  
 ACNW  
*D Brooks, HLGP*

OFC :	HLGP <i>MB</i>	: HLGP <i>DB</i>	: HLGP <i>RB</i>	: D/DHWM <i>RM</i>	: D/HLWM <i>RCB</i>
NAME:	DChery/ga/cj	: DBrooks	: RBallard	: JBYoungblood	: REBrowning
Date:	5/22/90	: 5/22/90	: 5/23/90	: 5/27/90	: 5/23/90

MAR 22 1990

MEMORANDUM FOR: Jesse Funches, Director  
Program Management, Policy Development and  
Analysis Staff, NMSS

FROM: Robert E. Browning, Director  
Division of High-Level Waste Management, NMSS

SUBJECT: FY 1992 - 1995 PLANNING FOR ADP SERVICES (9A1A, 120006)

Attached is a listing of DHLWM ADP IRM support needs as requested by your memo of March 14, 1990 and includes information with regard to hardware, software, communication, services and training. Due to the short turn-around time and the complex nature of our needs, which require close and integrated planning with IRM, this list is only intended to indicate the needs, not the method or schedule to fulfill them. Coordinated planning with IRM is necessary to achieve efficient implementation. For example, the LANs should be installed on a priority basis to meet the 10 CFR Part 2, Subpart J requirements to manage HLW documents and to be available for interface with the LSS which is scheduled for operation in December 1992. A properly integrated system could also eliminate some hardware and software needs.

Your memorandum also requested that we identify changes in the regulatory and ADP environment that effect our near term needs. These would include:

- o The promulgation of 10CFR Part 2, Subpart J which requires the establishment of the Licensing Support System (LSS) and the associated document management and quality control requirements for HLW documents (DHLWM expects IRM to be responsible for handling and preparing documents for placement in the LSS)
- o The scheduled buildup of the Center for Nuclear Waste Regulatory Analysis (CNWRA) and development of the Program Architecture Support System (the primary DHLWM data base) with increased computer communication and access needs
- o MOU for coordination of RES and NMSS in performance assessment which requires interconnection of mini-computers as well as PCs
- o MOU proposed with DOE to provide for access to technical data bases necessary to perform the HLW program mission
- o IRM planning for LANS to replace the IBM 5520 which has major impact on DHLWM operations, particularly computer communications and document management (DHLWM implementation of LANS should be of highest priority because of the necessary interfaces with other systems)

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MAR 22 1990

In view of the above, it is necessary that DHLWM work closely with IRM to formulate an implementation plan and budget to fulfill "critical" needs. Detailed justification with individual needs, schedule and priority can be provided for the identified needs but this should be done in the context of an integrated plan.

Robert E. Browning, Director  
Division of High-Level Waste Management

Enclosure:  
As Stated

cc: Clare DeFino

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JLambert/RES	SCoplan/HLGP	MBlackford/HLGP
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TO : HLEN	FROM : HLEN			
DATE : PAItomare	DATE : fw:JYoungblood			
TIME : 03/19/90	TIME : 03/19/90			

PLANNING FOR ADP SERVICES  
DHLWM COMPUTER REQUIREMENTS

<u>HARDWARE</u>	<u>QTY</u>	<u>SOFTWARE</u>	<u>QTY</u>
386 Computer System	10 <sup>(1)</sup>	Word Perfect	45
RAM increase	14	Harvard Graphics	15
MATH Co-processor	11	Lahey FORTRAN 77	4
EGA Monitor	2	F77EM/32 FORTRAN COMP	2
Color Graphics Board	2	Smart Term 240	30 <sup>(2)</sup>
Laser Jet Printer	1	GRAPHER	3
Color Laser Jet Printer	1	SURFER	3
Hard Disk Upgrades	3	Quick Basic	6
High MIP's PC's	20 <sup>(3)</sup>	3270 Emulation	30 <sup>(2)</sup>
High-Resolution Full Page Monitors	20 <sup>(3)</sup>	Inter Leaf	1
Interface Boards and Software for LSS	20 <sup>(3)</sup> 3	NORTON Utilities	1
LAN and Associated Spark workstation for communication with NRR and RES Sun Computer		Hard Disk Optimizer	1
		SIGNMASTER	10
		CHARTMASTER	10
		LOTUS	10
		PC Link	45
		Multi-tasking Operating System	45
		EZ View	20

(1) These systems should include 640K RAM, HARD DISK, EGA Monitors, Color Graphics Board, Laser Jet Printers.

(2) Requirements vanish provided LAN system installed.

(3) In each of 1991 and 1992 as replacements for XT's and 286's.

## COMMUNICATION

1. Improved Reliability on CNWRA/NRC Communication Line
2. NRC communication line to Las Vegas (LSS, DOE, Field Office)
3. CNWRA communication line to Las Vegas (LSS, DOE)
4. LANS bridge between 9370, NUDOCS and CNWRA

## SERVICES

1. LSS Header programmed for word processing
2. LSS Internal and external document processing and control by IRM
3. Application System program support
4. Increased level of time sharing support INEL, NIH and others at NRC and CNWRA

## TRAINING

1. PROFS Operation
2. LSS Document generation, control, quality assurance
3. ITS: LSS, WordPerfect, multi-tasking operating system