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JUL 15 1988

MEMORANDUM FOR: J. Linehan, Acting Chief  
Operations Branch

FROM: P. Altomare, Section Leader  
Systems Engineering and Evaluation  
Branch

SUBJECT: PROGRAM SCHEDULES AND AS PROJECT MANAGEMENT

Enclosed are: (1) a Mission Plan amendment schedule of major repository schedules; (2) a representation of NWPA by program area and more detailed representation of the repository milestones by phase of development; and, (3) a preliminary Gantt chart and network diagram from the Application Software project management computer program. The first of these items presents a condensed display of key program events and serves as a general reference for DOE and NRC repository related activities and products. The second more detailed representation provides a better display of the complex NWPA and repository development activities that must be undertaken. The last item, though very preliminary, begins to tie in and analyze the interfaces and critical path of the various program requirements.

The computer project management program can be particularly useful for future program planning and analysis. The computer program is more easily updated to changing attitudes and priorities, can provide analysis of critical paths, can be utilized for resource assessment, and is also a tool to analyze alternative program approaches.

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Philip S. Altomare, Section Leader  
Systems Engineering and Evaluation  
Branch

OFC: HLWM/HLSE : : : : :  
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NAME: PAltomare : : : : :  
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DATE: 88/07/15 : : : : :

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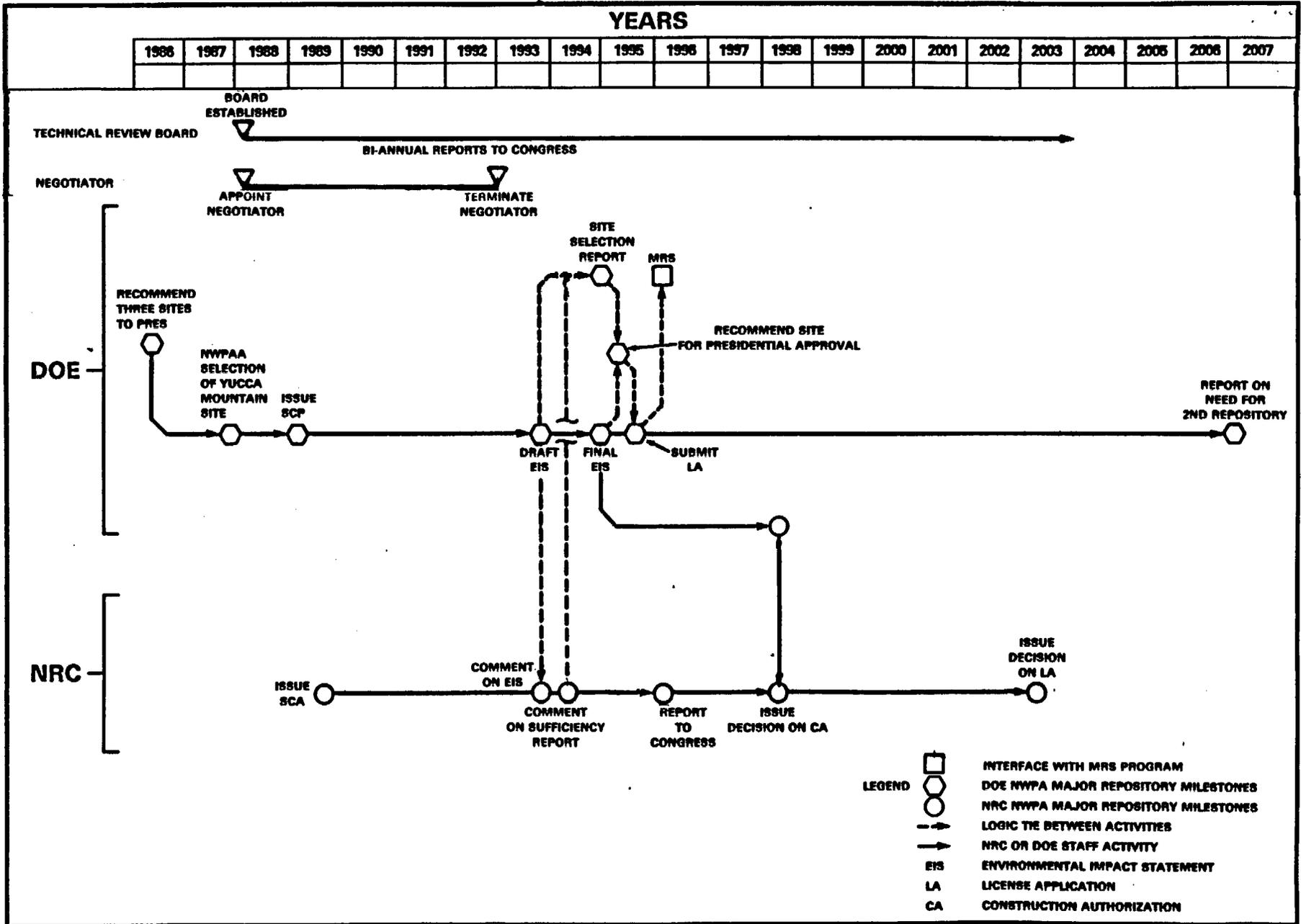
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**ENCLOSURE 1**

**Mission Plan Amendment Schedule of Major Repository Milestones**

# MISSION PLAN AMENDMENT SCHEDULE OF MAJOR REPOSITORY MILESTONES



CNWRA/PALTO/88/07/15/1

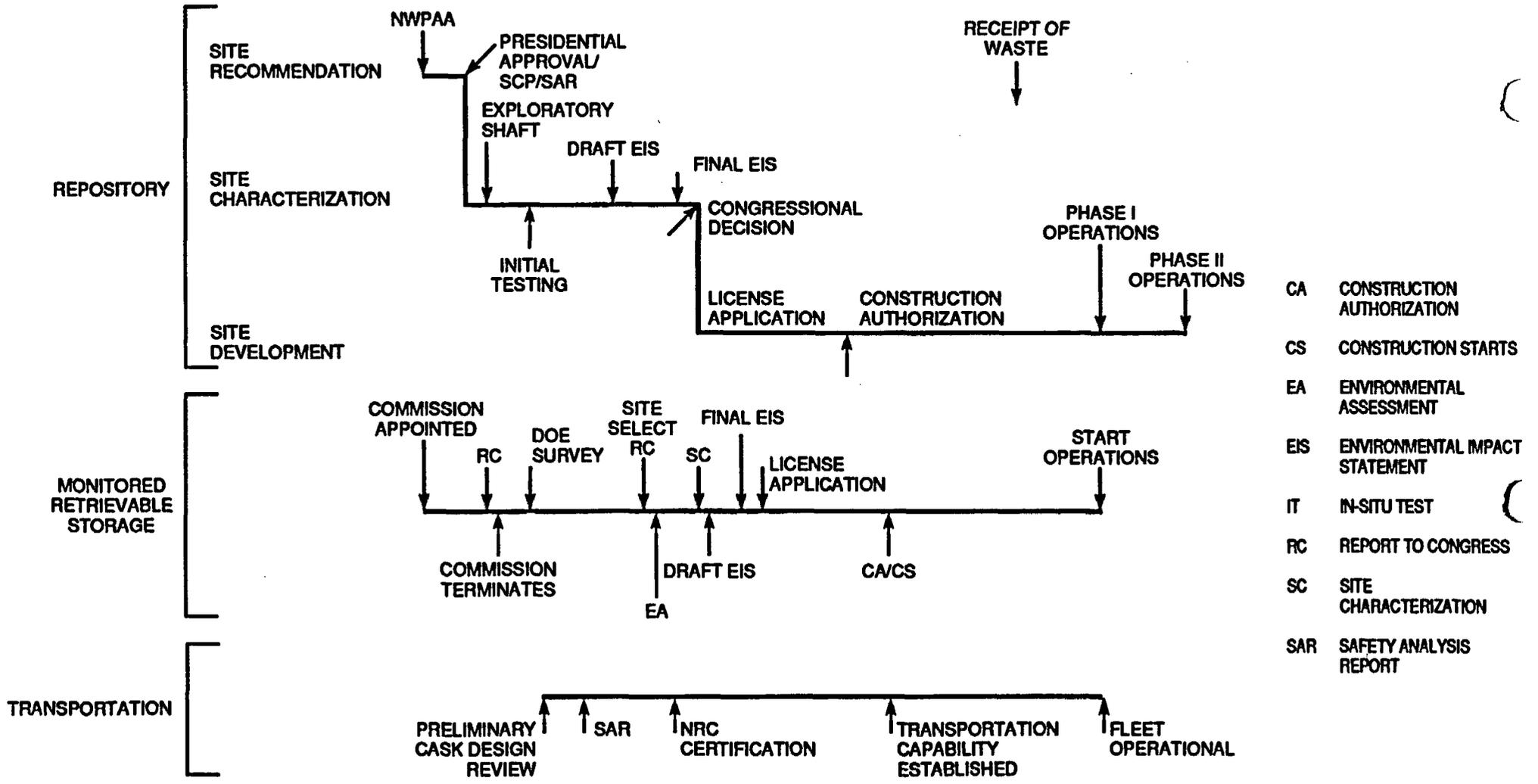
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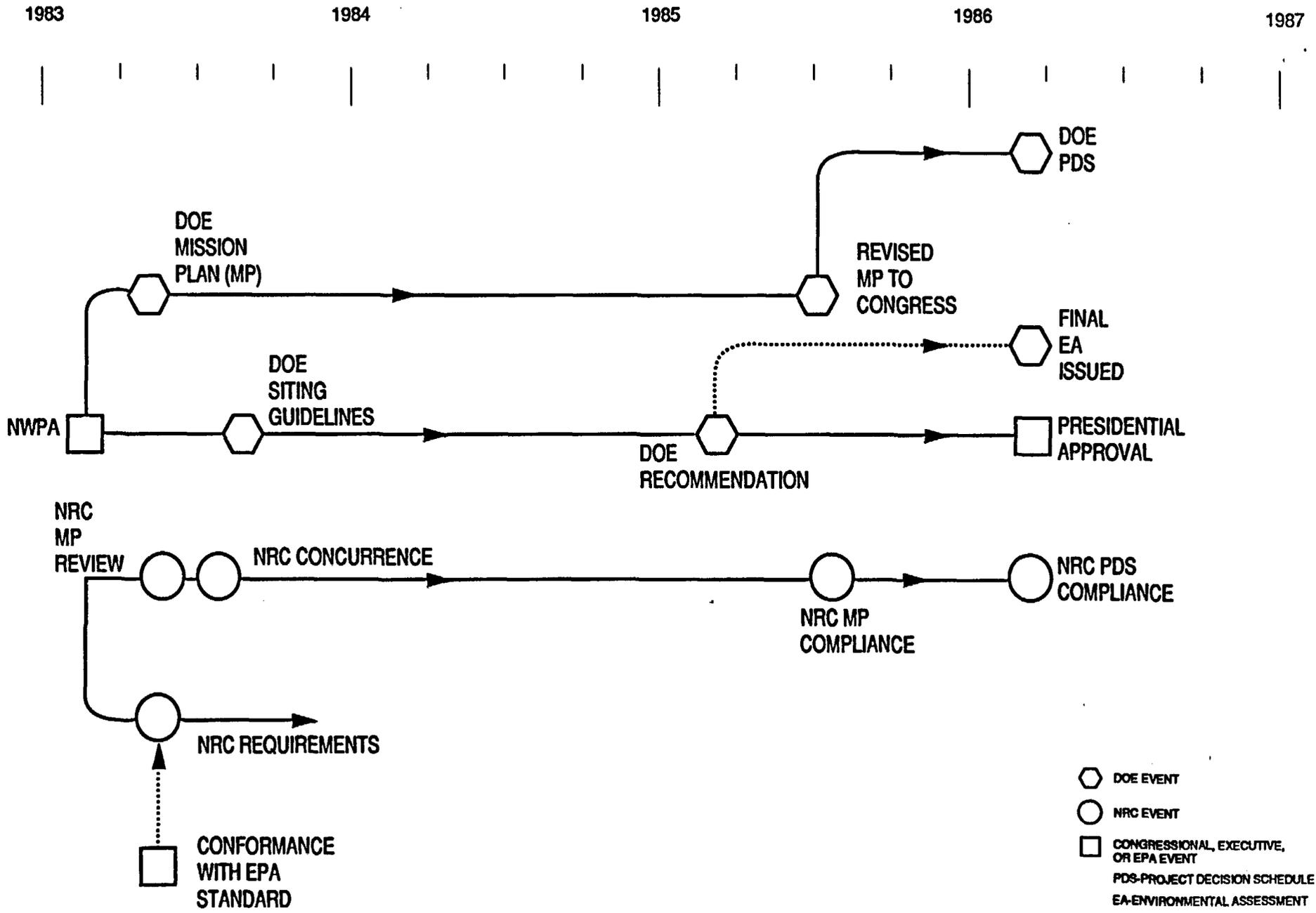
**ENCLOSURE 2**

**Integrated Schedule for the HLW Managment Program,  
Repository Milestone Schedules by Phase  
and  
Comparison of NWPA Dates**

# INTEGRATED SCHEDULE FOR THE HWL MANAGEMENT PROGRAM

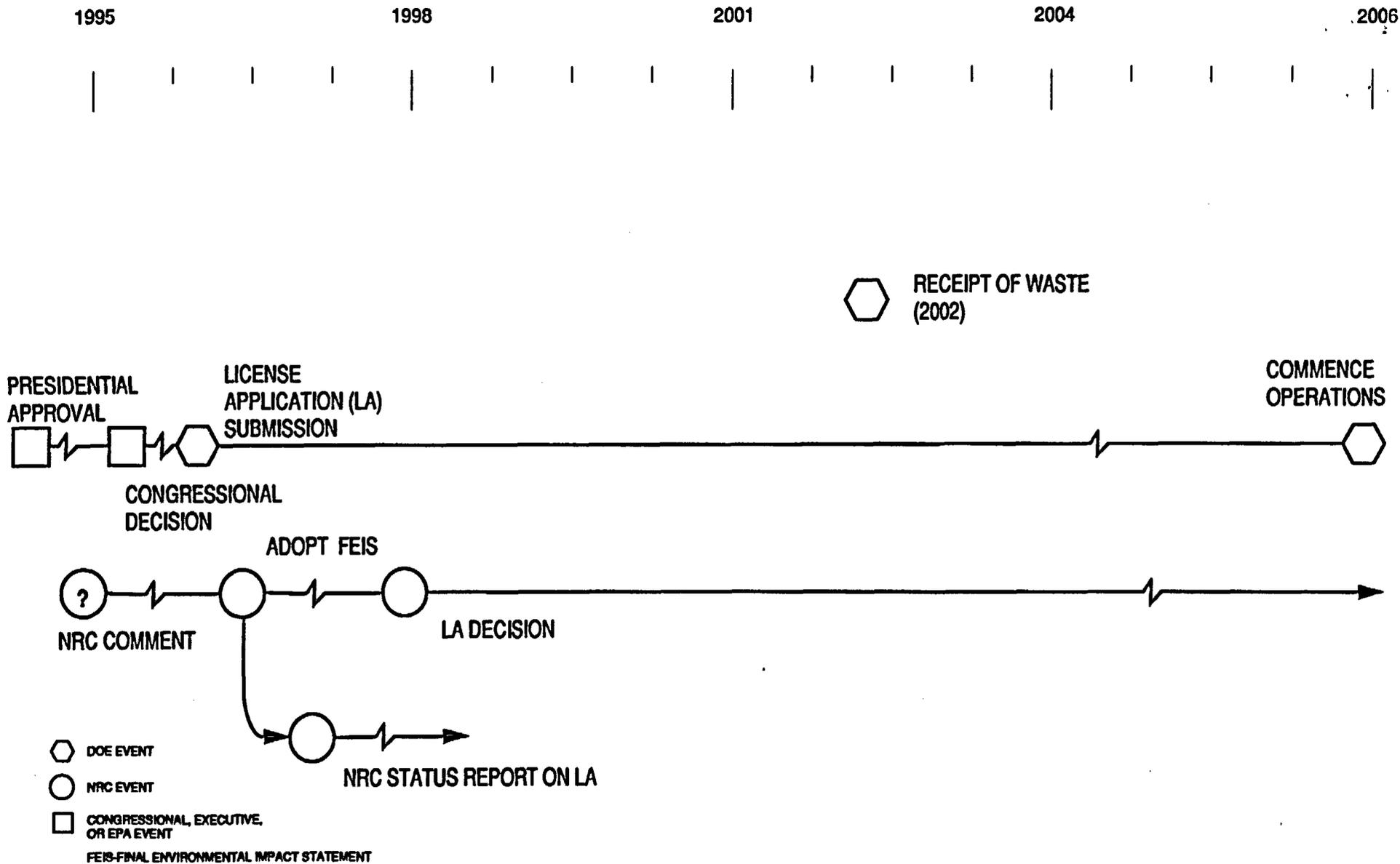
1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010





**PHASE I. SITE NOMINATION AND RECOMMENDATION (LEVEL I)**





**PHASE III. SITE SELECTION AND CHARACTERIZATION (LEVEL I)**

**COMPARISON OF NWPA DATES WITH ACTUAL OR CURRENTLY  
(AMENDED MISSION PLAN) SCHEDULED DATES**

<b>NWPA DATE *</b>		<b>ACTUAL/CURRENT DATE †</b>
<ul style="list-style-type: none"> <li>• ENACTMENT 01/83</li> <li>• STATE NOTIFICATION 04/83</li> </ul>	1983	<ul style="list-style-type: none"> <li>• STATE NOTIFICATION 02/83</li> <li>• NRC REQUIREMENTS 06/83</li> </ul>
<ul style="list-style-type: none"> <li>• EPA HLW STANDARD 01/84</li> <li>• NRC REQUIREMENTS 01/84</li> </ul>	1984	
<ul style="list-style-type: none"> <li>• DOE SITE RECOMMENDATION 01/85</li> <li>• ENVIRONMENTAL ASSESSMENT 01/85</li> </ul>	1985	<ul style="list-style-type: none"> <li>• EPA HLW STANDARD 09/85</li> </ul>
<ul style="list-style-type: none"> <li>• SCP REQUIREMENTS †</li> <li>• SCP REVIEW †</li> <li>• SCP PUBLIC HEARINGS</li> <li>• COMMENCE SITE CHARACTERIZATION PROGRAM †</li> <li>• DOE SITE RECOMMENDATION DECISION (&lt;01/87)</li> <li>• DOE SELECTION STATEMENT (&lt;01/87)</li> <li>• DOE EIS (&lt;01/87)</li> <li>• NRC PRELIMINARY SUFFICIENCY COMMENTS (&lt;03/87)</li> </ul>	1986	<ul style="list-style-type: none"> <li>• ENVIRONMENTAL ASSESSMENT 04/86</li> <li>• DOE SITE RECOMMENDATION 05/86</li> </ul>
<ul style="list-style-type: none"> <li>• PRESIDENTIAL SITE RECOMMENDATION 03/87</li> </ul>	1987	
	1988	<ul style="list-style-type: none"> <li>• SCP REQUIREMENTS &gt;1988</li> <li>• NRC SCP REVIEW &gt;1988</li> <li>• SCP HEARING &gt;1988</li> <li>• COMMENCE SITE CHARACTERIZATION PROGRAM 1988</li> </ul>
<ul style="list-style-type: none"> <li>• LICENSE APPLICATION SUBMISSION 01/89</li> </ul>	1989	

**COMPARISON OF NWPA DATES WITH ACTUAL OR CURRENTLY  
(AMENDED MISSION PLAN) SCHEDULED DATES (CONT'D)**

**NWPA DATE \***

**ACTUAL/CURRENT DATE †**

1991

• CONSTRUCTION  
AUTHORIZATION  
DECISION (01/92)

1992

1993

1994

• DOE SITE RECOMMENDATION  
DECISION <1994  
• DOE SELECTION STATEMENT 1994  
• DOE EIS 1994  
• NRC PRELIMINARY  
SUFFICIENCY COMMENTS <1994

1995

• PRESIDENTIAL SITE  
RECOMMENDATION  
1995

1996

1997

• SNF/HLW  
DISPOSAL BY  
DOE 01/98

1998

• CONSTRUCTION  
AUTHORIZATION  
DECISION 1998

1999

**COMPARISON OF NWPA DATES WITH ACTUAL OR CURRENTLY  
(AMENDED MISSION PLAN) SCHEDULED DATES**

**NWPA DATE \***

**ACTUAL/CURRENT DATE †**

2000

2001

2002

2003

• SNF/HLW  
DISPOSAL  
BY DOE  
(PHASE 1)  
~2003

2004

2005

2006

• SNF/HLW  
DISPOSAL BY  
DOE (PHASE II)  
~2006

\* DATE AS SPECIFIED BY NWPA. PARENTHETIC DATES HAVE BEEN SUPERCEDED BY NWPAA.

† DATES FOR WHICH ACTIVITY/EVENT WAS COMPLETED OR CURRENTLY SCHEDULED BY DOE'S MISSION PLAN OR PROJECT DECISION SCHEDULE.

‡ DATE NOT SPECIFIED IN NWPA.

ENCLOSURE 3

AS Project Management Program Repository Milestones

GANTT CHART  
(Color Charts in Phil Altomare's Office)

NETWORK PLOT  
(Network Plot in Phil Altomare's Office)

Project Repository  
Milestones  
Schedule

Dept Systems Engineering

Date July 14, 1988

#	Work Description	Durn	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	
1	0200 NWPA Select Yucca Mount.	1																				
2	0300 CDSCP Issued	1																				
3	0310 SCP Issued	1																				
4	0320 Public Hearings	60	█	█																		
5	0330 Expl. Shaft Construction. (ESF)	45	█	█																		
6	0340 Start In-Situ Studies	1			6																	
7	0400 Draft EIS Issued	1						7														
8	0500 Prel. Sufficiency Rept.	1						8														
9	0600 Site Select. Rept.	1						9														
10	0700 Final EIS Issued	1						10														
11	0800 Site Recom. For Pres. Approval	1						11														
12	0900 Lic. Appl. Submittal (CA)	1						12														
13	0950 Begin Construction	1											13									
14	0960 Begin Phase 1 Operation	1															14					
15	1100 CDSP Comments/Issues to DOE	1		█																		
16	1110 Expl. Shaft Early SCP Comments	90	█	█																		
17	1120 Issue SCA	85	⊗																			
18	1200 Comment on DEIS	90						18	█	█												
19	1300 Comment on Sufficiency Report	60						19	█	█												
20	1400 Lic. Appl. Acceptance Review	60						20	█													

⊗ Actual    █ Early    █ Late    █ Critical

Project Repository  
Milestones  
Schedule

Dept Systems Engineering

Date July 14, 1988

#	Work Description	Durn	88	89	90	91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06
21	1410 SER Issued	540								21	█										
22	1500 Rept. To Congr. on CA. Progress	540								22	█										
23	1600 Adopt FEIS	1								23	┌───┐										
24	1700 Constuction Auth. Decision	540										24	█								
25	1800 License to Receive Waste	1															25	└─┘			
26	2100 Appoint Negotiator	1	┌───┐																		
27	2120 Terminate Negotiator	1					27														
28	2200 Establish Tech. Review Board	1	┌───┐																		
29	2210 Initiate Bi-Annual Report	120	█																		█
30	2300 MRS Review Committee	1																			
31	2310 MRS EA (Link to Site Reccomend.)	1								31	┌──┐										
32	2320 MRS EIS	1									32	█									
33	2330 MRS LA Linked to Repos.	1									33	█									
34	2400 Dry Cask Storage Report	1																			
35	2410 DOE Disposal of Spent Fuel	1																			35

X Actual   
  Early   
  Late   
  Critical